

1997

## Seafloor Morphology, Geologic Framework, and Sedimentary Processes of a Sand-Rich Shelf Offshore Alabama and Northwest Florida: Northeastern Gulf of Mexico.

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SEAFLOOR MORPHOLOGY, GEOLOGIC FRAMEWORK, AND SEDIMENTARY  
PROCESSES OF A SAND-RICH SHELF OFFSHORE ALABAMA AND NORTHWEST  
FLORIDA: NORTHEASTERN GULF OF MEXICO

VOLUME I

A Dissertation

Submitted to the Graduate Faculty of the  
Louisiana State University and  
Agricultural and Mechanical College  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

in

The Department of Oceanography and Coastal Sciences

by  
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May 1997



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## **DEDICATION**

To Clo and Wyatt, the two remarkable people who have inspired me  
to be a husband and a father.

## ACKNOWLEDGMENTS

This study was supported by U.S. Minerals Management Service (MMS) grant no. 1435-01-96-CT-30812 and the U.S. Department of Interior's Mineral Institute Program administered by the Bureau of Mines through the generic Mineral Technology Center for Marine Minerals under grant no. G1115128-2201. In particular, I would like to thank Barry Drucker of MMS and the Marine Minerals Technology Center (MMTC)--Continental Shelf Division at the University of Mississippi for their administrative support over the years, especially Dr. Robert Woolsey (Director), Katherine Walton, Dorothy O'Niell, Robin Buchanan, and Walter O'Niell. In addition, Doug Lockhart (MMTC), Monty Simmons (captain of the *R/V Kit Jones*), and Robert Shelton (1st Mate of the *R/V Kit Jones*) tirelessly assisted with field data collection. Additional field support was provided by Dr. Mark Bymes, Dr. Greg Stone, Cuong Nguyen, Paul Conner, and Robert Seal. Cuong Nguyen, Thuy Bui, Susan Anderson, Matthew Taylor, Traci Cash, Julie Doucet, John Ellis, and Ted Maul helped in core and sample processing.

I would like to thank my major advisor and committee chairman, Dr. Harry Roberts, for his guidance and advice. His encouragement over the years kept me focused on my dissertation and on my ultimate career objectives. I am also grateful to my other committee members, Drs. Arnold Bouma (minor advisor-geology), James Coleman, Oscar Huh, and Amitava Roy. Each played a critical role in my doctoral program and dissertation. Drs. Mark Bymes, Laurie Anderson, Barun Sen Gupta, Dag Nummedal, Don Swift, John Snedden, and Alan Niedoroda participated in numerous stimulating discussions that helped formulate my ideas. Drs. Laurie Anderson and Barun Sen Gupta of the LSU Department of Geology and Geophysics provided macrofauna and microfauna analysis and identifications, respectively. Cartographic assistance was provided by Kui Xu, Feng Li, Mary Lee Eggert, and Celia Harrod.

I would also like to express my gratitude to the Louisiana Geological Survey and the LSU Coastal Studies Institute. My doctoral course work and dissertation were completed on a part-time basis while working full-time at these two organizations. I especially want to thank Dr. George Hart who first encouraged me to pursue a Ph.D. while he was the Director of Research at the Louisiana Geological Survey.

I appreciate the inspiration and help of Mrs. Claudia Burton during the course of my doctoral program, especially the much needed escapes to St. George Island. Although now deceased, Dr. Dwight L. Burton always showed a keen interest in my doctoral progress, and his advice regarding higher education in general was a great help.

Very special thanks are extended to my parents, Mr. and Mrs. Milford L. McBride, Jr., who have provided much support and encouragement for my aspirations toward higher education. From my undergraduate days at Wittenberg University to my graduate degrees at LSU, they have always been there. Thanks for all your wisdom and love throughout the years.

Without a doubt, the single-most important person contributing to the completion of this dissertation is my wife, Claudia "Toi" Holland. Her unwavering support, patience, personal sacrifice, editing skills, and love gave me the strength to persevere. Her belief in me and our goals provided me that spark of energy when times got tough. More recently, our son, Wyatt Carter McBride provided another spark, and together, these sparks turned into a family flame that propelled me forward. Although the importance of this dissertation in my life has been great, the importance of family has been far greater (The ultimate source of learning at all ages). I dedicate this dissertation to my wonderful family, Claudia and Wyatt.

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## ABSTRACT

Late-Pleistocene and Holocene geology of the northeastern Gulf of Mexico shelf offshore Alabama and northwest Florida was investigated using 38 vibracores, 47 radiocarbon dates, foraminiferal and macrofauna assemblages, and bathymetry data. The morphologic and stratigraphic signatures of the last rise of eustatic sea level were examined along a passive continental margin. Major shelf features include shore-oblique sand ridges, mid-shelf linear shoals, and shelf-edge deltas. Surficial shelf sediments consist of >90% sand, <2.7% mud, and <2% granules and fine in a westerly direction from a medium to fine sand. The sharp boundary that demarcates these two sand types (Apalachicola and Mobile subprovinces) was identified for the first time in this study.

Six facies and two erosional surfaces characterize shelf stratigraphy. *Facies 1* is a Pleistocene soil horizon. This facies is truncated by a major erosional unconformity (Type 1 sequence boundary) created by subaerial exposure during the last sea level lowstand and the bay ravinement process during the ensuing transgression. Fine-grained estuarine deposits (*Facies 2, 3, or 4* [lower transgressive systems tract]) overlie the unconformity. *Facies 3* and *4* are truncated by a shoreface ravinement diastem (flooding surface) and overlain by a marine shell-bed (*Facies 5*; lower shoreface). *Facies 5* grades into *Facies 6*, a quartz sand with marine foraminifera. *Facies 5* and *6* comprise the upper transgressive systems tract (up to 5.5 m thick).

Compared to a eustatic sea level curve, mollusk dates from estuarine shell beds show a time-transgressive trend, whereas marine shell beds are time-averaged. Transgressive and post-transgressive processes (strong cold fronts, tropical cyclones) concentrate marine mollusks above the shoreface ravinement diastem. Consequently, linear shoals are not *in-situ* or degraded barriers because marine species dominate the foraminiferal and molluscan assemblages, and deposits lie above shoreface ravinement

diastem. Although shelf morphology is similar to modern barrier island geomorphology, shelf morphostratigraphy (linear shoals) is related to transgressive and post-transgressive processes. Shoal form and orientation are dictated by underlying transgressive topography (escarpments) that was cut into the Pleistocene substrate during the Holocene transgression. During transgression, erosional shoreface retreat produced a trailing sand sheet that draped the transgressive topography.

## **CHAPTER 1. INTRODUCTION**

Detailed investigations of modern and ancient continental shelves, especially transgressive systems tracts, have increased significantly over the past decade (e.g., Nummedal and Swift, 1987; Demarest and Kraft, 1987; Wilgus et al., 1988; Swift et al., 1991a; Dalrymple et al., 1994; Siringan and Anderson, 1994; Tortora, 1996; Anderson et al., 1996). Although continental-margin geology of the northern Gulf of Mexico has been studied extensively (e.g., Shepard et al., 1960; Rezak and Henry, 1972; Salvador, 1991), investigations of late-Pleistocene/Holocene transgressive systems tracts have focused exclusively on the northwestern and north-central Gulf (e.g., Nelson and Bray, 1970; Penland et al., 1989; Bartek et al., 1991; Anderson et al., 1992, 1996; Thomas and Anderson, 1994; Brooks et al., 1995). In comparison, late-Quaternary geology of the northeastern Gulf is relatively unexplored, especially the shelf region between Mobile Bay, Alabama, and the Apalachicola River, Florida (Figure 1).

### **Study Area**

The study area encompasses approximately 10,000 km<sup>2</sup> of the continental shelf and inland waters along the western flank of the DeSoto Canyon between Mobile Bay, Alabama, and Pensacola Bay, Florida (Figure 1). The continental shelf widens to the west from only 25 km along the eastern boundary of the study area (86°50') to about 110 km south of Mobile Bay. The study area is bound on the north by the Alabama/Florida mainland shoreline and in the south by the shelf break (~100 m water depth). This area lies on the eastern margin of the Gulf Coast depocenter (Marsh, 1966) and is blanketed by the Mississippi/Alabama/Florida (MAFLA) sand sheet (Doyle and Sparks, 1980; McBride and Byrnes, 1995). Major morphologic features in the study area include shore-oblique sand ridges, middle to outer shelf sand shoals, and large lobes along the continental-shelf margin. The Alabama/Florida shoreline is segmented by the Mobile Bay Entrance, Perdido

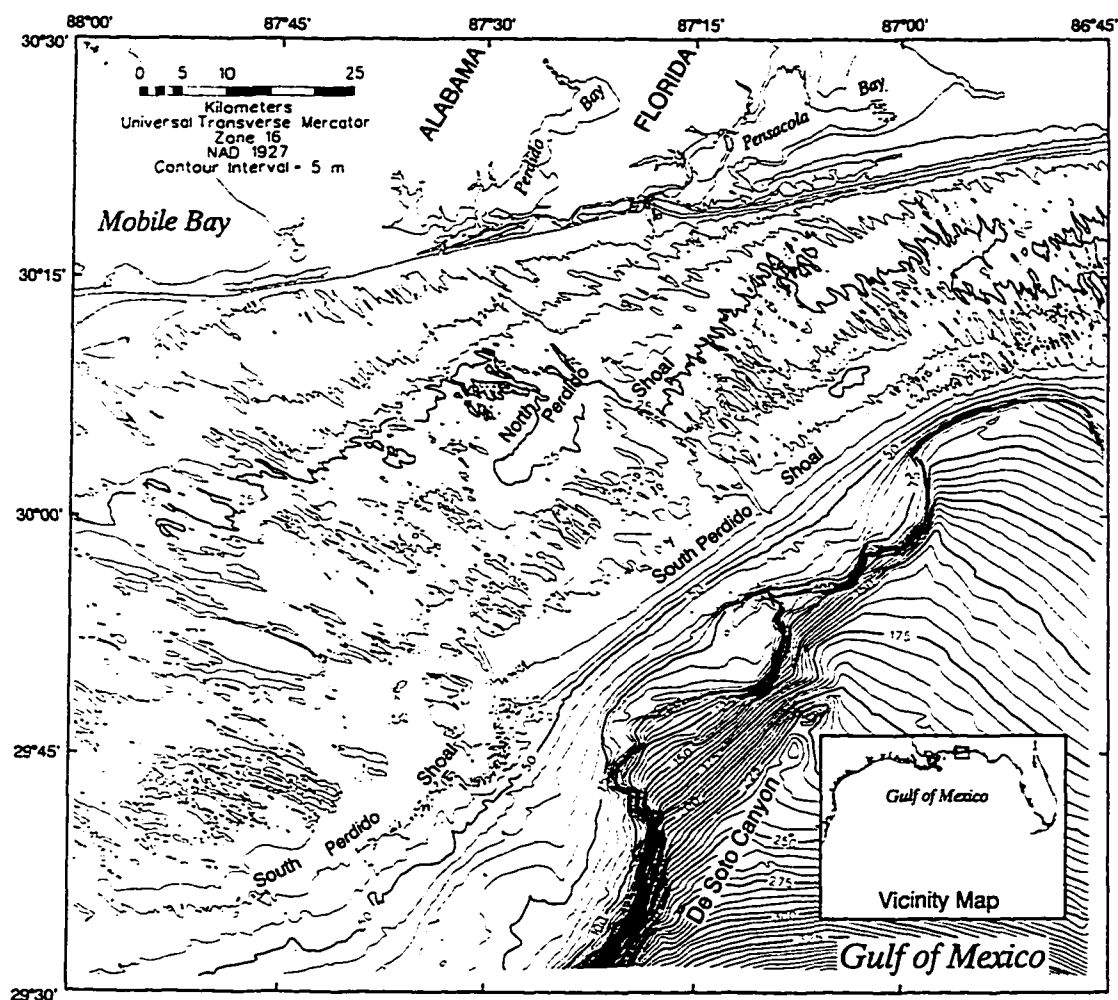


Figure 1. Study area showing detailed bathymetry at 5 m contour intervals. Thicker contours are at 25 m intervals (Modified from McBride and Byrnes, 1995).

Pass, and Pensacola Pass, which connect their estuarine systems to the Gulf of Mexico (Figure 1).

The northeastern Gulf of Mexico is characterized by microtidal conditions, with an average tidal range of 0.4 m (NOAA, 1985). Maximum shelf tidal currents are about 15 cm/sec and occur where the shelf is widest (Schroeder et al., 1994). Wind-driven currents are strongest in the winter and early spring, occur in response to 20 to 30 cold fronts per year that effect the northern Gulf of Mexico (Huh et al., 1984; Roberts et al., 1987), and generate current velocities up to 40 to 50 cm/sec. Mean inner-shelf flow is westward and consistent with wind-driven flow (Dinnel, 1988). Hurricanes tend to make landfall in the study area about once every seven years, generate current speeds over 100 cm/sec (Murray, 1970), and rework the seafloor out to the shelf break (~100 m water depth). In addition, the Loop Current and its associated eddies affect the outer continental shelf along the southeastern boundary of the study area. Loop Current water also has been shown to penetrate further northward within several kilometers of the Florida shoreline (Huh et al., 1981; Sturges and Evans, 1983).

### **Research Goal, Hypotheses, and Objectives**

The principal research goal of this study is to examine the morphologic and stratigraphic signatures of the last rise of eustatic sea level along a passive continental margin. Four hypotheses are proposed to explain the morphology and geology of the Alabama and northwest Florida shelf. It is postulated that the shelf is:

- 1) composed entirely of relict Pleistocene features (e.g., strandlines, fluvial valleys, deltas) with no Holocene deposits,
- 2) a result of transgressive processes and comprised entirely of Holocene coastal deposits (barrier shorelines, spits, estuaries) accumulated during the last major Quaternary rise in sea level,

- 3) a result of post-transgressive processes (waves and currents) and comprised entirely of Holocene shelf deposits, or
- 4) a combination of two or all of the above-mentioned hypotheses.

Together, the goal and hypotheses form the foundation on which the following objectives were formulated: (1) identify primary shelf morphologic features, (2) provide a regional synthesis of surficial sediments using samples from this study integrated with existing data from pertinent literature, (3) delineate sedimentary facies, regional erosional surfaces, depositional environments, and stratigraphic architecture of shelf deposits, (4) determine shelf sedimentary processes, using vibracore, radiocarbon, and bathymetry data, (5) establish the sequence stratigraphy, and (6) produce a detailed geologic model synthesizing the depositional history of the shelf in response to the last eustatic rise of sea level.

Specific applications of data and results from this study can be tied to beach replenishment for shore erosion control, industrial uses of high quality quartz sand (e.g., glass, computer chips), baseline data for incorporation with the Minerals Management Service (MMS) physical oceanography initiative in the northeastern Gulf of Mexico (see Clark, 1994), and potential placement of offshore oil and gas infrastructure relative to geologic hazards such as liquefaction and bedform migration. In addition, the sand-rich shelf setting provides an excellent example of a modern reservoir analog for subsurface oil exploration in ancient sedimentary deposits. The application and utilization of depositional models developed from modern environments are critical for ancient reservoir prediction and development.



## **CHAPTER 2. PREVIOUS WORK**

### **Seafloor Morphology**

Using bathymetry, Hyne and Goodell (1967) and Ballard and Uchupi (1970) are the only two known studies that have examined seafloor morphology in or adjacent to the study area. Hyne and Goodell (1967) investigated the inner shelf seaward of Choctawhatchee Bay, Florida, and concluded that the presence of long, shore-parallel shoals were former barrier island features formed at lower stands of sea level. Ballard and Uchupi (1970) conducted a regional study that covered the entire northern Gulf of Mexico shelf and upper slope. They claimed to identify five former shoreline trends at various depths between 30 and 180 m.

### **Surficial Sediments**

Previous studies along the northern Gulf of Mexico document four primary sediment provinces on the continental shelf: 1) Rio Grande, 2) Western Gulf, 3) Mississippi River, and 4) Eastern Gulf (Goldstein, 1942; Gould and Stewart, 1955; Van Andel, 1960; Fairbank, 1962; Ludwick, 1964; Upshaw et al., 1966; Hyne and Goodell, 1967; Kent et al., 1976; Doyle and Sparks, 1980; Mazzullo and Bates, 1985; Arthur et al., 1986; Donoghue and Allard, 1987; Frey and Dorjes, 1988; Schroeder et al., 1988a and b; Mazzullo and Peterson, 1989; Shultz et al., 1990; Parker et al., 1992; Kennicutt et al., 1995). The shelf eastward from the abandoned St. Bernard delta lobe to the Apalachicola Delta is classified as the Eastern Gulf Province. Also known as the MAFLA (Mississippi-Alabama-Florida) sand sheet, this province can be further subdivided into the Mobile and Apalachicola subprovinces (Mazzullo and Peterson, 1989).

Sediments along the barrier beaches of southwestern Alabama and the western Florida Panhandle are dominated by fine-to-medium-grained quartz sand that fines westward in the direction of net longshore sediment transport (Hsu, 1960; Gorsline, 1966;

Kwon, 1969; van Wyk, 1973; Williams, 1974; Balsillie, 1975; Kent et al., 1976; Walton, 1976; Stone et al., 1992). Estuaries in the study area are repositories for fine-grained sediment delivered by fluvial systems that flow into Mobile, Perdido, and Pensacola Bays (Horvath, 1968; Parker, 1968; Ryan, 1969; Folder, 1972; George, 1988; Isphording, 1989). Most sand-sized material is restricted to bayhead deltas or concentrated around bay perimeters. Little sediment is transported directly to the Gulf of Mexico, except suspended clay and fine silt associated with the Mobile Bay plume (Abston et al., 1987; Stump, 1991), and during hurricane events (Isphording and Isphording, 1991).

### **Geologic Framework**

Although core data that describe late-Quaternary stratigraphy in the study area is lacking, numerous studies of adjacent depositional environments have been conducted using high-resolution seismic data, vibracores, piston cores, and/or long borings. Using seismic stratigraphy, Locker and Doyle (1992) investigated the Neogene to Recent shelf/slope geology offshore northwest Florida. They delineated basic seismic packages but no details were provided for the thin Holocene deposits. For the Alabama-Mississippi coastal zone, Otvos (1982), McBride et al. (1991), Mars et al. (1992), and Davies and Hummell (1994) delineated sedimentary facies and the geologic history of Mississippi Sound and Mobile Bay. Further west, studies of the Texas and Louisiana continental shelves have focused on sea-level changes, incised-valley fills, and hard-mineral resources (Coleman and Roberts, 1988a and b; Penland et al., 1989; Anderson et al., 1992; Donoghue, 1992; Brooks et al., 1995). Recent work on shelf-edge deltas has documented fluvial drainage patterns and depocenters during lowstands of sea level (Winker, 1982; Suter and Berryhill, 1985; Kindinger, 1988, 1989; Sydow and Roberts, 1994; Morton and Suter, 1996). Furthermore, much attention has recently focused on estuarine facies models and incised-valley fills, which occur exclusively in transgressive

settings (Dalrymple et al., 1992, 1994). Known as the lower transgressive systems tract, incised-valley fill can constitute a significant component of transgressed shelf deposits.

### **Macrofauna**

Immediately to the east of the study area, Jervy (1974) compiled detailed information on sediment, living fauna, and death assemblages for the shoreface and inner shelf off Destin, Florida. To the west of the study area, Parker (1956, 1960) described life and death assemblages of the eastern Mississippi Delta region. A number of recent articles include information on the surface and/or stratigraphic distribution of bioclastic accumulations to the west of the study area off Alabama (Parker, 1990; Parker et al., 1992; Davies and Hummell, 1994). In addition, living communities or bioclastic remains associated with hardbottom areas on the Alabama shelf are described by Schroeder et al. (1988a and b, 1989, 1995), Gittings et al. (1990, 1992), and Parker et al. (1992).

Anderson and McBride (1996) outline the taxonomic composition, taphonomy, and genesis of subsurface Holocene shell beds in the study area. Gangopadhyay et al. (1996) describe molluscan and foraminiferal assemblages of the Pensacola and Perdido Bay estuarine systems. Anderson et al. (1997) outline evidence (based on foraminiferal, macrofaunal, and  $^{14}\text{C}$  data sets) of a thoroughly-mixed Holocene marine section and of a less seasonal middle-to-late Holocene climate in the northeastern Gulf.

### **Microfauna**

Pioneering work on the distribution of benthic foraminifera on the continental shelf of the northeastern Gulf of Mexico was conducted by Parker (1954) and Bandy (1954). In both of these regional studies, sediment samples were obtained from several transects and the relative abundances of species in the thanatocoenose examined, resulting in the recognition of species assemblages related to depth zones. An extensive study of foraminiferal generic distribution patterns in the northeastern Gulf (both shallow and deep)

was conducted by Walton (1964), leading to the delineation of broad faunal belts characterized by the abundance of particular genera. Bock's (1976) investigation covered much of the same area, but his focus was on the distribution of living assemblages. The comprehensive distribution of benthic foraminifera in the Gulf of Mexico, including our study area, was summarized by Poag (1981), with emphasis on abundance variations of genera (as in Walton, 1964). The local, brackish-water foraminifera of Mobile Bay, Alabama, Choctawhatchee Bay, Florida, and St. Andrews Bay, Florida and the effect of salinity changes on the fauna were investigated by Lamb (1972), Pastula (1967), and Mechler and Grady (1984).

### **Glacio-Eustatic Changes in Sea Level**

Although much work has been published on the last eustatic fall and rise of sea level (e.g., Emiliani, 1958; Imbrie et al., 1984; Shackleton, 1987; Pirazzoli, 1991), a consensus is lacking on a true eustatic sea-level curve for the northern Gulf of Mexico (see Pirazzoli, 1991, p. 116). Fisk (1944) recognized important links between glacio-eustatic sea-level change and continental-shelf sedimentary history. From the 1950s to 1970s, subsequent researchers investigated sea-level changes based on radiocarbon-dated material (wood, shells, peat) collected from the Gulf of Mexico and the southern U.S. Atlantic shelves (e.g., Godwin et al., 1958; McFarlan, 1961; Shepard, 1963; Curray, 1965; Milliman and Emery, 1968; Emery and Milliman, 1970; Nelson and Bray, 1970). However, one problem associated with these sea-level curves is the difficulty relating dated organic materials to an associated paleo-sea-level position (Pirazzoli, 1991). Reliable elevation versus age data (i.e., former sea levels) are obtained from reefal or encrusting marine organisms in growth position collected on stable carbonate platforms, such as coral reefs (Hopley, 1986) and coralline algae (Adey, 1986). Much recent work has concentrated on radiocarbon-dated coral with a narrow depth range from Barbados in the Caribbean, as

well as Papua New Guinea and Tahiti in the South Pacific (Fairbanks, 1989, 1990; Bard et al., 1990, 1996; Chappell and Polach, 1991). Coral-based curves should provide an objective “control” for the eustatic signal. However, the Barbados and Papua New Guinea sites are located over active subduction zones, and the Tahiti data, although tectonically stable, indicate that past sea levels were deeper for comparable Gulf of Mexico dates. Contemporaneously, locations around the world can show significant differences in the height of sea level because of geoidal (undisturbed sea surface) depressions and elevations (Carter, 1988; p. 245). Consequently, the best eustatic-sea-level information for the Gulf of Mexico is probably derived from a combination of local (Curry, 1965) and worldwide studies (Fairbanks, 1989; Bard et al., 1996).

## **CHAPTER 3. METHODS**

### **Bathymetry**

National Ocean Service (NOS) hydrographic survey data (H-sheet soundings) were compiled and modeled to provide bathymetric coverage for the shelf (McBride and Byrnes, 1995). Using the Pensacola, Florida, tide gauge and benchmark, the data were vertically adjusted to address datum shifts between mean low water (MLW) and the National Geodetic Vertical Datum (NGVD 1929), as well as for local relative sea level rise of 2.4 mm/yr. Additionally, the North American Datum 1927 (NAD27) was used because horizontal datum shifts were not needed. The original projection was converted from Polyconic to Universal Transverse Mercator (zone 16). Surface modeling software was employed to produce a digital elevation model of the seafloor utilizing a Triangulated Irregular Network (TIN) technique. Using the newly created modeled surface, continuous bathymetric profiles and a bathymetric map were produced (e.g., Figure 1).

### **Vibracore Data**

Between 1990 and 1993, thirty-eight vibracores were collected to determine the stratigraphic signature of late-Quaternary deposits (Figure 2; Appendix A). Using a pneumatic vibrator attached to a submersible seven-meter-high steel tripod, six-meter-long aluminum vibracores (7.5-cm diameter) were used to sample the sedimentary column. The tripod was lowered to the seafloor and core tubes were vibrated completely into subsurface deposits or until refusal. Refusal normally resulted when the bottom of the core barrel penetrated shell beds or pre-Holocene deposits. Cores were collected in water depths ranging from 3 to 45 m. Vibracores were logged, photographed, and sampled for grain size,  $^{14}\text{C}$  dating, macrofossils, and microfossils. Grain-size samples were collected at 25-cm intervals and, in accordance with Folk (1980), analyses were performed using a sonic sifter with size statistics (moment measures) computed (Appendices B, C, and D).

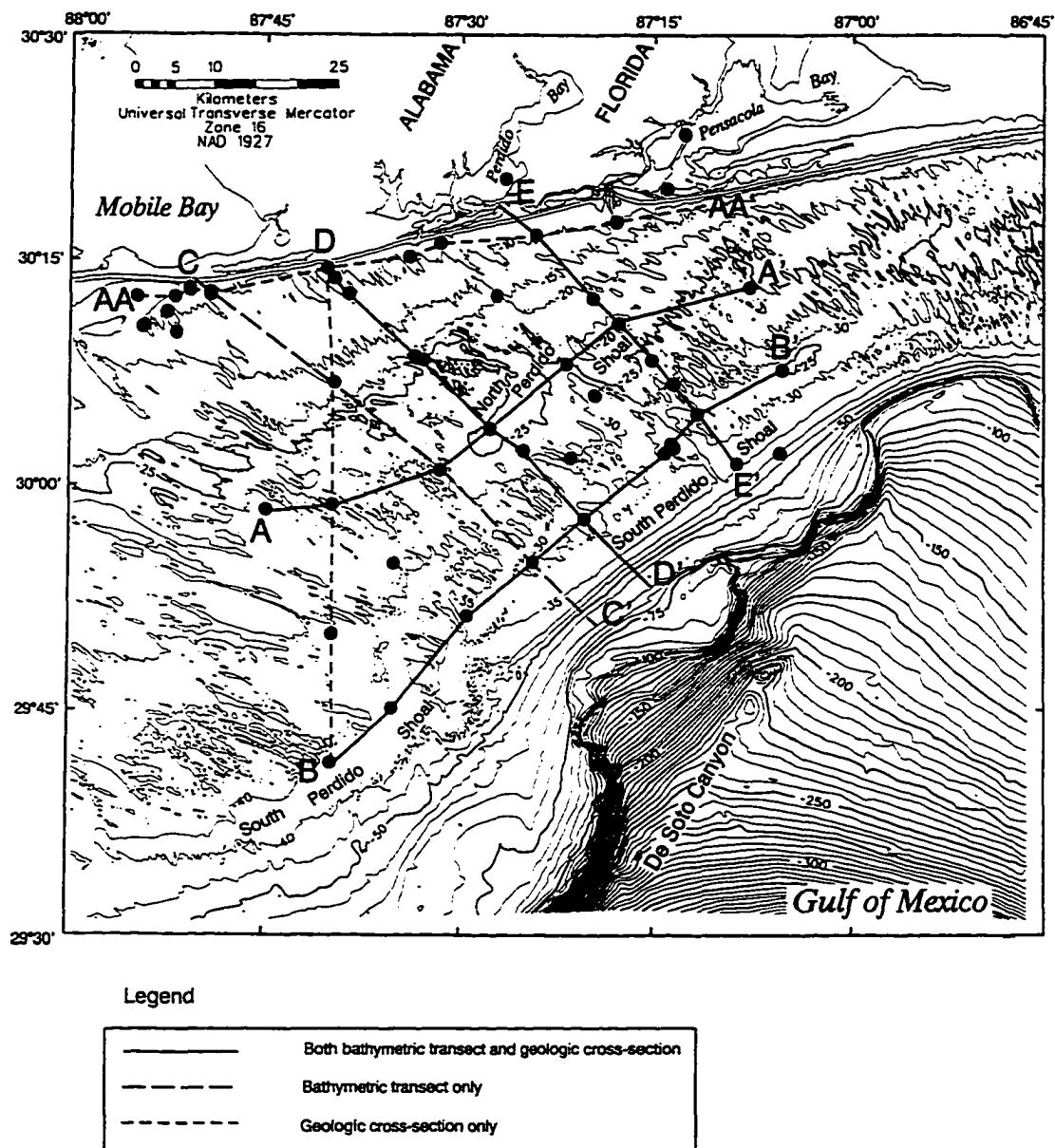


Figure 2. Vibracore locations (dots), bathymetric transects, and geologic cross-sections in the study area. See Figure 4 as well as Figures 13 through 18 for core identifications.

### Paleontology

Macrofauna (primarily mollusks) and benthic foraminifera were examined from selected cores to gain additional insight regarding depositional environments of sedimentary facies encountered in vibracores. Macrofauna (>1.4 mm) from ten well-developed shell beds in nine vibracores were identified, counted, and described taphonomically (Appendix E; also see Anderson and McBride, 1996; McBride et al., 1996). Benthic foraminifera were investigated quantitatively in 35 samples (~2 cm thick) from four vibracores (Appendix F; also see McBride et al., 1996; Anderson et al., 1997). All representative lithofacies were sampled. Samples were washed through a 63-micron sieve and floated in bromoform to recover relatively clean foraminiferal residues. All specimens of benthic foraminifera (>63  $\mu$ ) were identified in suitable aliquots. The proportion of the clay-silt fraction also was determined for all samples.

### Radiocarbon Dating

Due to an absence of organic carbon deposits (i.e., peat), radiocarbon samples primarily were derived from pristine, whole mollusk shells. Forty-two shells were dated (Table 1; Figure 2; Appendix G). Conventional radiocarbon ( $^{14}\text{C}$ ) analyses were performed except when small amounts of carbon were encountered. In these cases, accelerator mass spectrometry (AMS) techniques were employed.

To avoid potential transport and reworking problems, and/or contamination by older or younger carbon through solution exchange (Mangerud, 1972), two procedures were implemented. First, only pristine, unaltered, whole shells (i.e., original color, gloss, and ornamentation; not encrusted, bioeroded, abraded, or corroded) were selected for dating. Second, AMS dates from the inner and outer layers of a single mollusk shell (*Chione cancellata*) were compared. This procedure tests for age differences in the same shell, because the exchange of solutional carbon affects the outer part of a shell more than the



inner layers. If a significant difference exists between the two dates, contamination has occurred. Results of "inner" and "outer" dates for the single shell were  $10,200 \pm 60$  and  $10,040 \pm 60$  yrs. B.P., respectively, indicating that the solutional effect factor is not significant.

Table 1. Summary of  $^{14}\text{C}$  age date data from the Alabama/northwest Florida shelf. See Figure 4 for sample locations.

	Core Number	Core Depth (m)	Total Depth (m)	Sample Type	Measured $^{14}\text{C}$ Age (yrs. B.P.)	$^{13}\text{C}/^{12}\text{C}$ Ratio (‰)	Conventional $^{14}\text{C}$ Age (yrs. B.P. $\pm 1\sigma$ )	Beta #	Cams #
1	ALA-91-15	1.92 - 2.00	37.93	<i>Oliva sayana</i>	4140 $\pm$ 60	+1.2	4570 $\pm$ 60	73365	13827
2	ALA-91-16	3.40 - 3.50	38.50	<i>Oliva sayana</i>	8060 $\pm$ 230	+1.3	8490 $\pm$ 240	69494	
3	ALA-91-16	3.45 - 3.50	38.52	<i>Macrocallista nimbosa</i>	9550 $\pm$ 110	+1.0	9980 $\pm$ 120	69690	
4	ALA-91-16	3.55 - 3.60	38.62	<i>Oliva sayana</i>	9340 $\pm$ 130	+1.0	9770 $\pm$ 140	69490	
5	PC-93-1	3.00 - 3.10	28.04	Organic Sediment	11050 $\pm$ 270	-32.1	10940 $\pm$ 260	74705	
6	PC-93-1	3.10 - 3.20	28.14	Organic Sediment	10230 $\pm$ 60	-31.1	10130 $\pm$ 60	74706	
7	PC-93-1	3.20 - 3.30	28.24	Organic Sediment	10160 $\pm$ 90	-30.9	10060 $\pm$ 90	74707	
8	PEN-91-3	3.82 - 3.87	22.44	<i>Oliva sayana</i>	1030 $\pm$ 70	+1.3	1460 $\pm$ 70	69691	
9	PEN-91-3	3.82 - 3.87	22.44	<i>Chione intapurplea</i>	1910 $\pm$ 80	+1.6	2350 $\pm$ 80	69692	
10	PEN-91-3	3.77 - 3.82	22.39	<i>Chione intapurplea</i>	2750 $\pm$ 70	+1.6	3190 $\pm$ 70	69693	
11	PEN-91-5	4.55 - 4.62	25.32	<i>Argopecten gibbus</i>	1310 $\pm$ 100	+0.2	1720 $\pm$ 100	69694	
12	PEN-91-5	4.50 - 4.55	25.26	<i>Linga pensylvanica</i>	710 $\pm$ 70	+1.6	1150 $\pm$ 70	69695	
13	PEN-91-5	4.00 - 4.05	24.76	<i>Linga pensylvanica</i>	740 $\pm$ 70	+0.7	1170 $\pm$ 70	69696	
14	PEN-91-8	2.75 - 2.83	36.32	<i>Pelecypoda</i>	6070 $\pm$ 90	0.0	6480 $\pm$ 90	60662	
15	PEN-91-8	2.75 - 2.83	36.32	<i>Pelecypoda</i>	8380 $\pm$ 160	0.0	8790 $\pm$ 160	60663	
16	PEN-91-8	2.75 - 2.83	36.32	<i>Pelecypoda</i>	8820 $\pm$ 120	0.0	9230 $\pm$ 120	62194	
17	PEN-91-8	2.75 - 2.83	36.32	<i>Pelecypoda</i>	9330 $\pm$ 230	0.0	9740 $\pm$ 230	62195	
18	PEN-91-10	0.08 - 0.18	35.19	Organic Clay	36200 $\pm$ 800			63834	
19	PEN-91-10	0.67 - 0.77	35.77	Organic Clay	36610 $\pm$ 660			63835	
20	PEN-91-11	3.45 - 3.50	31.21	<i>Macrocallista maculata</i>	5190 $\pm$ 60	+1.9	5630 $\pm$ 60	77148	16686
21	PEN-91-11	3.50 - 3.55	31.27	<i>Oliva sayana</i>	990 $\pm$ 60	+1.0	1420 $\pm$ 60	77147	16685
22	PEN-91-11	3.55 - 3.60	31.31	<i>Linga pensylvanica</i>	1450 $\pm$ 70	+1.6	1890 $\pm$ 70	77146	
23	PEN-91-11	3.80 - 3.85	31.57	<i>Chione cancellata</i>	9620 $\pm$ 50	+0.9	10040 $\pm$ 50	77145	16684

(table con'd.)

24	PEN-91-11	4.00 - 4.07	31.78	<i>Chione cancellata</i>	9620±60	+0.4	10040±60	77292	16691
25	PEN-91-11	4.00 - 4.07	31.78	<i>Chione cancellata</i>	9650±60	+0.9	10070±60	77144	16683
26	PEN-91-11	4.00 - 4.07	31.78	<i>Chione cancellata</i>	9770±60	+1.0	10200±60	77143	16682
27	PEN-91-12	4.10 - 4.15	33.09	<i>Echinodermata</i>	4020±100	0.0'	4430±100	63194	
28	PEN-91-12	4.10 - 4.15	33.09	<i>Oliva sayana</i>	9280±70	0.0'	9690±70	63195	7406
29	PEN-91-12	4.10 - 4.15	33.09	<i>Chione cancellata</i>	9780±150	0.0'	10190±150	63196	
30	PEN-91-12	4.10 - 4.15	33.09	<i>Shell Fragments</i>	7280±110	0.0'	7690±110	63198	
31	PEN-91-12	4.15 - 4.20	33.14	<i>Gastropoda</i>	7740±60	0.0'	8150±60	63199	7407
32	PEN-91-12	4.15 - 4.20	33.14	<i>Pelecypoda Anomir.</i>	6920±140	0.0'	7330±140	63200	
33	PEN-91-12	4.35 - 4.40	33.34	<i>Gastropoda</i>	8710±140	0.0'	9120±140	63201	
34	PEN-91-12	4.35 - 4.40	33.34	<i>Pelecypoda/ Veneri.</i>	9750±140	0.0'	10160±140	63202	
35	PEN-91-12	4.30 - 4.35	33.29	<i>Macrocallista nimbosa</i>	9220±130	+0.9	9650±140	69697	
36	PEN-91-12	4.25 - 4.30	33.24	<i>Macrocallista nimbosa</i>	9260±160	+0.9	9680±160	69698	
37	PEN-91-12	4.25 - 4.30	33.24	<i>Eucrassitella speciosa</i>	1970±110	+1.3	2410±120	69699	
38	PEN-91-12	4.20 - 4.25	33.19	<i>Macrocallista nimbosa</i>	9020±110	+0.7	9440±110	69700	
39	PEN-91-12	4.00 - 4.05	32.99	<i>Macrocallista nimbosa</i>	9750±70	+0.3	10160±70	69701	11014
40	PEN-91-13	3.75 - 3.80	34.87	<i>Linga pensylvanica</i>	1870±60	+2.2	2310±60	69702	
41	PEN-91-13	3.70 - 3.75	34.82	<i>Linga pensylvanica</i>	1050±60	+1.2	1490±60	69703	
42	PEN-91-13	3.65 - 3.70	34.77	<i>Macrocallista maculata</i>	3200±70	+1.4	3640±70	69704	
43	PEN-91-13	3.93 - 3.96	35.04	<i>Oliva sayana</i>	8170±60	+1.6	8610±60	73364	13826
44	PEN-92-5	2.41 - 2.46	25.91	<i>Nuculana concentrica</i>	12190±60	+0.2	12600±60	69705	11015
45	PEN-92-5	1.76 - 1.81	25.25	<i>Nuculana concentrica</i>	8030±60	+0.4	8450±60	69706	11016
46	PER-93-3	3.89 - 4.00	7.56	<i>Mercenaria spp.</i>	5050±80	-0.8	5450±80	73362	
47	PER-93-3	3.89 - 4.00	7.56	<i>Chione Cancellata</i>	5650±60	+0.5	6070±60	73363	13825

## **CHAPTER 4. RESULTS AND DISCUSSION**

The first sections of Chapter four present the primary results of this study, which specifically address: 1) seafloor morphology, 2) surficial sediments, and 3) geologic framework. These sections are supported by a substantial data set tabulated in Appendices A through G. As such, the result sections synthesize important points and concepts, whereas the appendices contain the detailed data. The final sections discuss the context of the shelf deposits by using radiocarbon-dated mollusks, sequence stratigraphy, and a shelf evolution model.

### **Seafloor Morphology**

#### **Alabama and Northwest Florida Shelf**

Detailed continental-margin morphology in the study area is characterized by a complex pattern of first-, second-, and higher-order features. First-order features are regional in extent (tens to hundreds of km) and are the primary expression of the seafloor, whereas higher-order features tend to be smaller and are superimposed on first-order features (Figures 1 and 3).

Based on bathymetry, the continental shelf and upper slope in the study area can be divided into three geomorphic zones (McBride and Byrnes, 1995). Zone 1 (0 to 20 m) is dominated by shore-oblique shelf and shoreface sand ridges (Figures 1 and 3). These ridges are generally over 0.3 km long, have relief up to 5 m, side slopes that average less than 1°, and are 1 to 4 km wide with wavelengths of 0.5 to 8 km.

Zone 2 encompasses most of the middle to outer continental shelf (20 and 50 m). The seafloor in this area is dominated by two long, linear shoals that are >5 m in relief and oriented parallel to the shelf break (Figures 1 and 3). The most landward shoal, North Perdido Shoal, is located 15 to 25 km offshore in water that deepens to the southwest from 20 to 25 m. The shoal is about 30 km long, 2 to 5 km wide, and narrows to the northeast

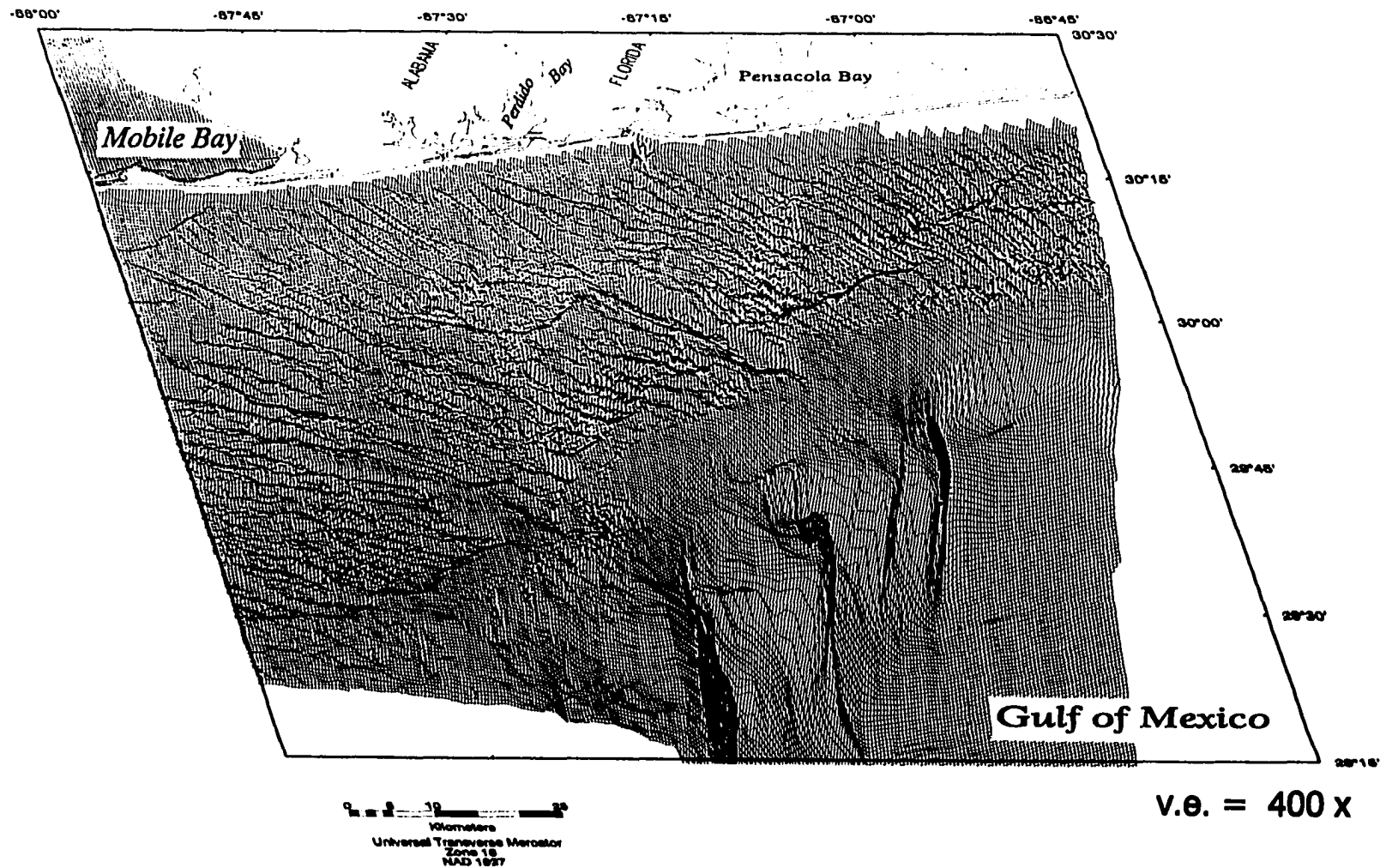


Figure 3. Oblique view of a digital elevation model for the Alabama and northwest Florida shelf (vertical exaggeration = 400x).

(Figures 1, 2, and 4; A-A' from 25 to 40 km and 45 to 55 km). In contrast, the outer shoal (South Perdido Shoal) lies 20 to 70 km offshore; water depths over the shoal deepen to the southwest from 25 to 40 m (Figures 1 and 4; B-B' from 25 to 55 km and 60 to 75 km). South Perdido Shoal is approximately 120 km long, 3 to 6 km wide, and narrows to the southwest. It is the longest, shelfbreak-parallel shoal along the northern Gulf of Mexico. North and South Perdido Shoals tend to be asymmetrical in profile (landward flank the steepest) with a bathymetric low landward of and parallel to each linear shoal (Figures 1 and 4; C-C' at 55 km, D-D' at 29 and 46 km, and E-E' at 34 km). As shown on Figures 1 and 3, a well-developed, narrow, shore-perpendicular bathymetric low (oriented NW/SE) intersects both linear shoals and appears to continue updip toward Perdido Bay (Figure 4; A-A' at 43 km; B-B' at 58 km). In addition, the southwestern end of each shoal is truncated by a much broader bathymetric low (Figures 1 and 4; A-A' from 0 to 23 km; B-B' from 15 to 23 km).

Zone 3 extends from 50 to 150 m water depth and includes the outer continental shelf/shelf break area. The most diagnostic bathymetric features are 10 to 25 km wide, shelf-edge lobes that occur along strike (Figures 1 and 3). The largest shelf-edge lobe occurs along the southwest corner of the study area in water depths between 65 and 200 m. Further east, the shelf edge lobes are much smaller and their seaward limit is in shallower water, averaging about 125 m. These smaller lobes are located seaward of the narrower, shore-perpendicular bathymetric low that bisects North and South Perdido Shoals (Figures 1 and 3; 30° north, 87° 12' west; Figure 4 at 43 km on A-A' and at 58 km on B-B').

**Interpretation.** The long, linear shoals, and associated shore-parallel bathymetric lows, appear to occur on interfluvies between fluvial drainage systems that tend to be shore-normal. This shelf morphology is similar to the present-day barrier/estuarine system

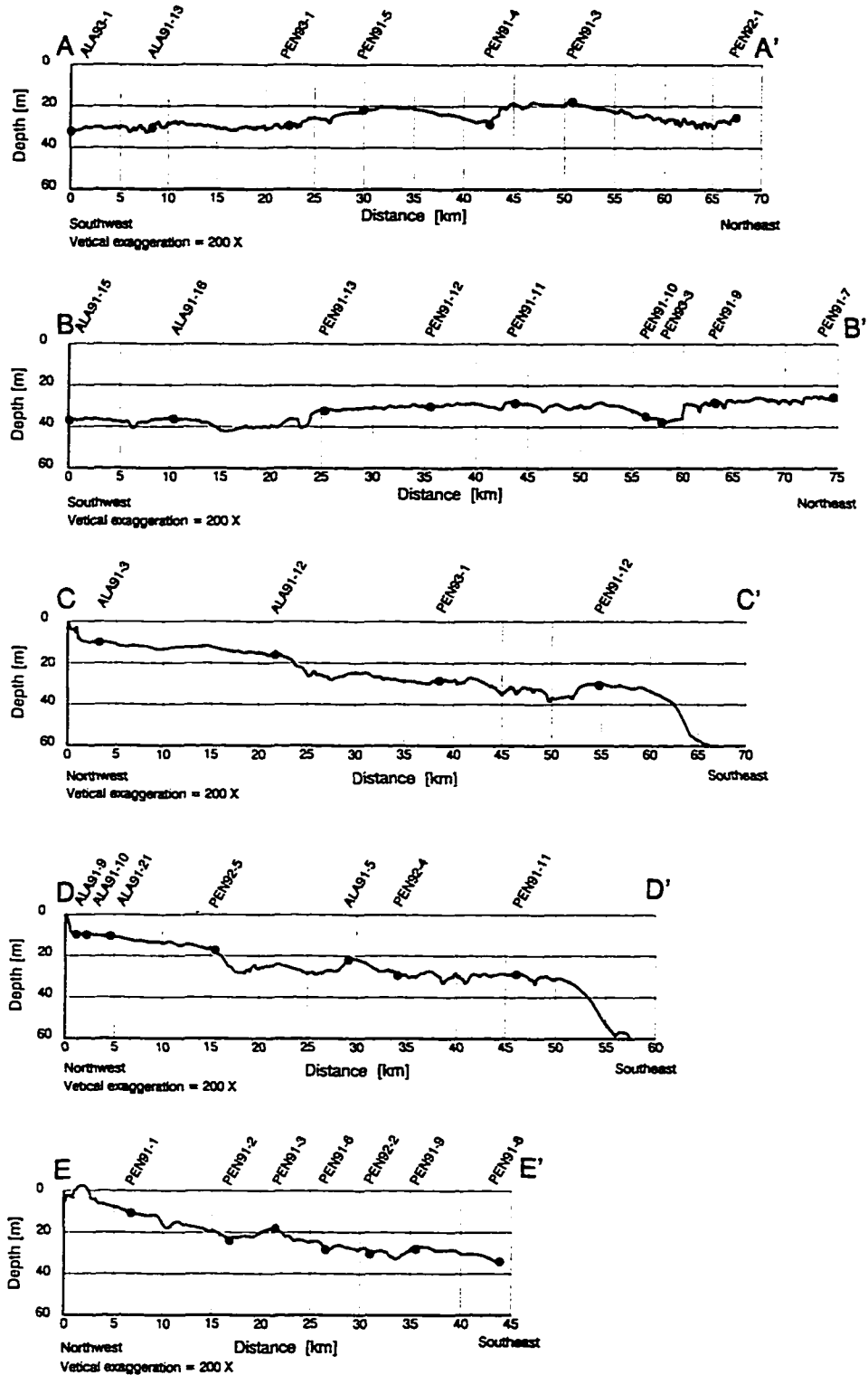


Figure 4. Strike- and dip-oriented bathymetric transects A-A', B-B', C-C', D-D', and E-E' with vibracore locations (black dots). Vertical exaggeration = 200x. See Figure 2 for locations.

between Mobile and Pensacola Bays. Mobile, Perdido, and Pensacola Bays represent shore-normal lows, whereas Santa Rosa Sound and Big Lagoon exemplify shore-parallel lows landward of the sand-rich barrier islands (Santa Rosa Island and Perdido Key). Furthermore, the western portion of South Perdido Shoal and the broad bathymetric low have similar morphologic characteristics to Mobile Bay and the barrier spit known as Morgan Peninsula. Also, the spatial relationship between shore-normal lows and shelf-edge lobes suggests the presence of fluvial-deltaic systems produced during sea-level lowstands.

Overall, shelf morphology suggests the development of shelf-edge deltas being fed by fluvial systems that cut across the exposed shelf during the last sea-level lowstand. South and North Perdido Shoals possibly represent two barrier/estuarine systems, because they closely mimic the morphology of the modern coastal system. The shoals imply periods characterized by significant slowing of the rate of sea-level rise or standstill during the last post-glacial transgression. However, the shoals appear to be reworked because they are asymmetrical in profile with the steepest flank facing landward, whereas typical barrier beaches are characterized by the steepest flank facing seaward.

### **Estuarine Systems**

Compared with shelf morphology, estuarine bathymetry tends to be less complex because it represents depositional topography. Proximity of river sources and lower energy levels in estuaries allow finer-grained sediment to be deposited out of suspension on antecedent topography. By contrast, continental shelves experience higher energy conditions that tend to be erosional, thus concentrating larger grain sizes.

**Mobile Bay.** Based on NOS hydrographic surveys, Ryan (1969) compiled bathymetry of Mobile Bay for two time periods: 1) 1847/51 and 2) 1960/62 (Figure 5). Only the bathymetry of 1847/51 will be discussed here, however, because it provides detailed



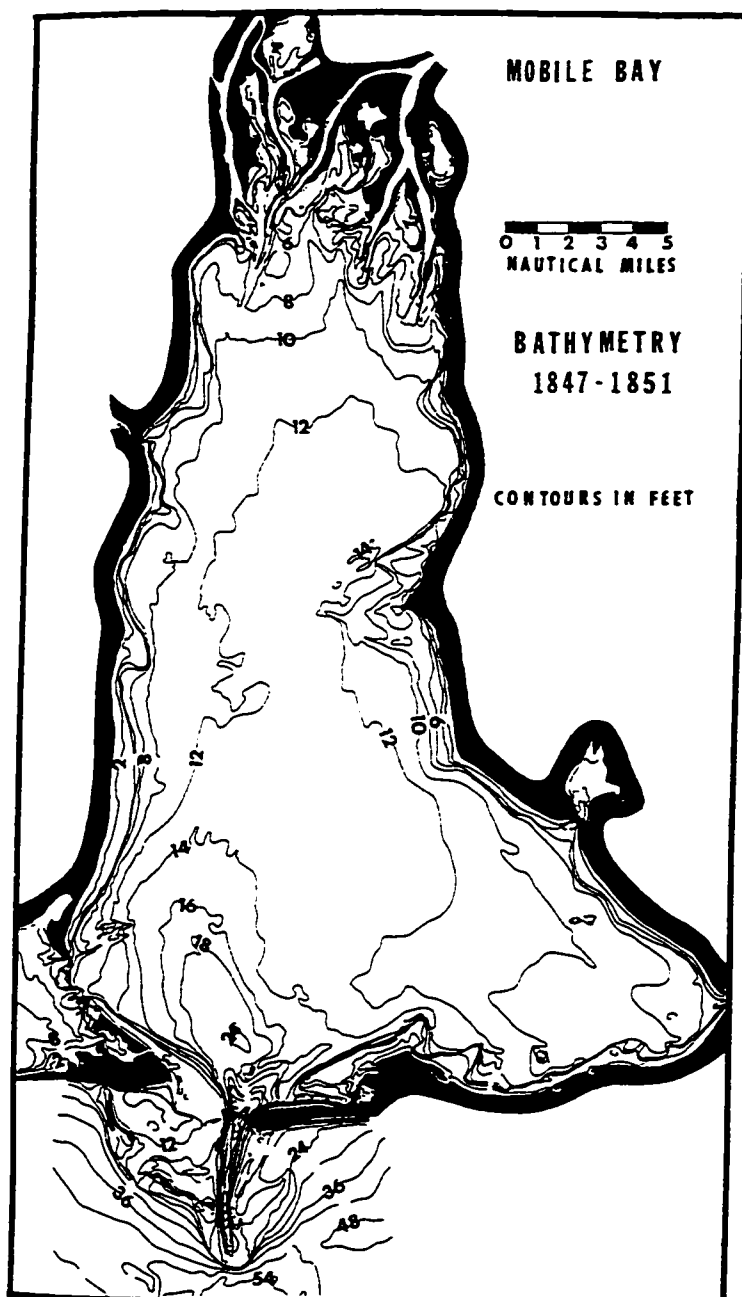


Figure 5. Bathymetry (feet) for Mobile Bay, Alabama in 1847/51 (from Ryan, 1969).

information about the natural contours of Mobile Bay prior to major human modification (e.g., ship channels, Intracoastal Waterway). The bay is bell-shaped and dominated by a flat bottom that ranges in depth between 3.7 and 4.3 m (10 and 14 feet). Water depths gently increase toward the center of the bay and from north to south/southwest toward the Gulf of Mexico. The tidal entrance to Mobile Bay forms the deepest part of the estuary and has naturally scoured down to 16.4 m (54 feet). The bay has a mixed tide with a mean tide range of 0.4 m (Stumpf, 1991). The inlet is characterized by a large ebb-tidal delta, indicating a tide-dominated system. The perimeter of the bay is dominated by a narrow platform that extends out to the 1.8 m (6 ft) depth contour and is about 1 to 2 km (1 mi) wide. Protuberances in the narrow platform tend to occur offshore shoreline promontories, three of which are found along the western shoreline, two along the eastern shoreline, and two along the southern barrier spit.

**Perdido Bay System.** Perdido Bay is smaller and shallower than Mobile and Pensacola Bays. The bathymetry of the bay can be divided into two zones that consist of a narrow marginal platform and a deeper, central basin (Figure 6). The shallow platform projects out to the 1.8 m (6 ft) contour and has an average width of less than 0.8 km (0.5 mi). Bay floor depths range from 1.8 to 4.6 m (6 to 15 ft), and the floor is characterized by a fairly flat central area that gently slopes toward the central bay axis and the Gulf of Mexico. Prior to inlet stabilization and annual maintenance dredging that began in the early 1960s, Perdido Pass migrated rapidly westward at an average rate of 30 m/yr and was generally shallower than -1.8 m (-6 ft) (U.S. Army Corps of Engineers, 1964). The deepest water depths in this area occur in Big Lagoon, with a maximum depth of 6.4 m (21 ft).

**Pensacola Bay System.** Of the three estuary systems investigated, Pensacola Bay is the deepest, with depths approaching 11.6 m (38 feet). Similar to both Mobile and

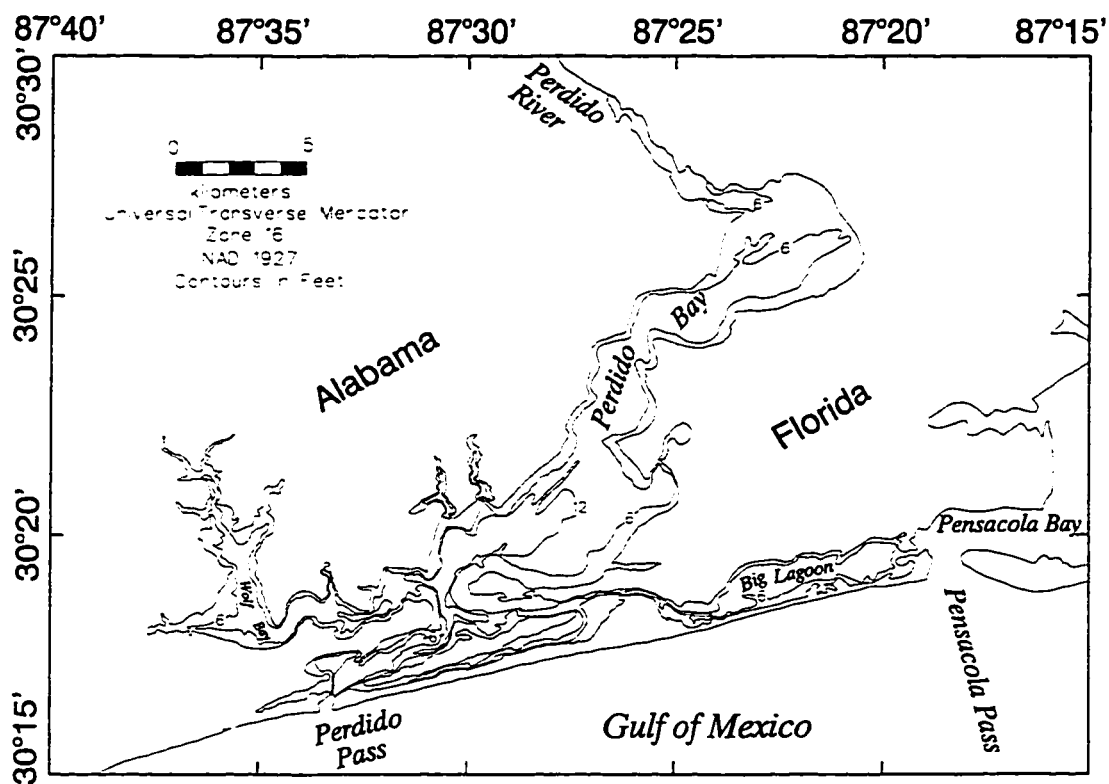


Figure 6. Bathymetry (feet) for the Perdido Bay system, Alabama/Florida (from NOAA chart 11378).

Perdido Bays, Pensacola Bay is dominated by a narrow, shallow platform around its entire perimeter that extends out to about the 1.8 m (6 ft) contour (Figure 7). Most of the bay floor is fairly flat, ranging from 1.8 to 9.1 m (6 to 30 ft) and sloping to the south/southwest. The northwestern portion (Escambia Bay) of the Pensacola Bay System is deeper and has a slightly steeper gradient than the northeastern portion (known as East and Blackwater Bays). To the southeast, Santa Rosa Sound is long and narrow and shallows to the east, with depths ranging from 1.8 to 5.5 m (6 to 18 ft).

### **Surficial Sediments**

Sediment data collected from the Alabama and northwest Florida coasts and shelves were integrated with existing data from Mobile Bay (Ryan, 1969; Isphording and Lamb, 1979), Perdido Bay (Parker, 1968), and Pensacola Bay (Horvath, 1968) to provide a comprehensive understanding of the distribution of surficial sediment (Figures 8 and 9). Based on a total of 613 samples, sediment data cover a range of sedimentary environments from bayhead deltas to outer shelf.

#### **Alabama and Northwest Florida Shelf**

Of the 35 samples collected on the shelf, all are characterized by >90% sand, <2.7% mud (i.e., silt and clay), and <2% granules. Median grain size ranges from 0.14 to 0.46 mm (2.88 to 1.13 phi) or fine to medium sand. Average sorting coefficients range from 0.54 to 0.75 mm (0.88 to 0.41 phi) or well-sorted to moderately-sorted sand. These textural parameters are typical for the Eastern Gulf Province (i.e., the MAFLA sand sheet). For example, Ludwick (1964), who classified sediment in the western part of the study area as the Mississippi-Alabama sand facies (Mobile subprovince), characterized the sediment as 93% terrigenous sand, 7% carbonate sand, and 0% silt and clay, with an average median diameter of 0.18 mm or fine sand size. In addition, work by Doyle and Sparks

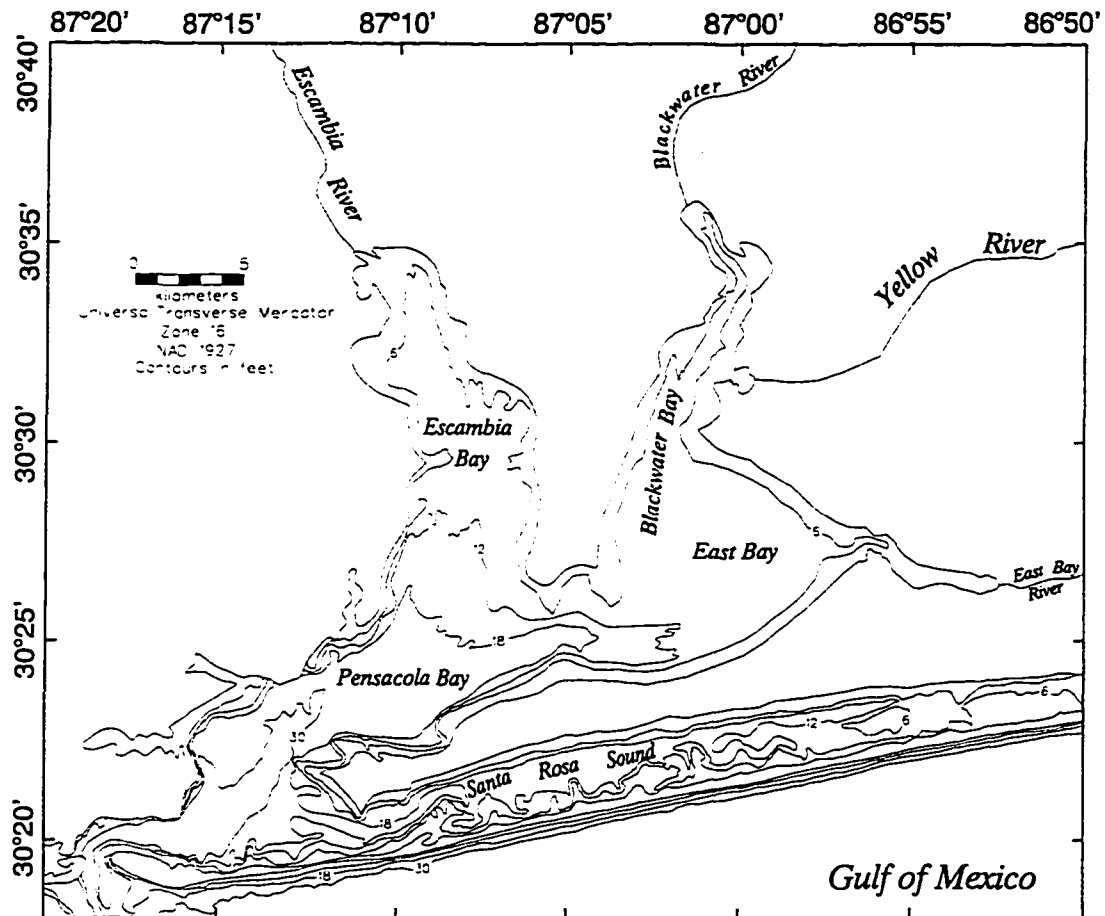


Figure 7. Bathymetry (feet) for the Pensacola Bay system, Florida (from Horvath, 1968 and NOAA chart 11378).

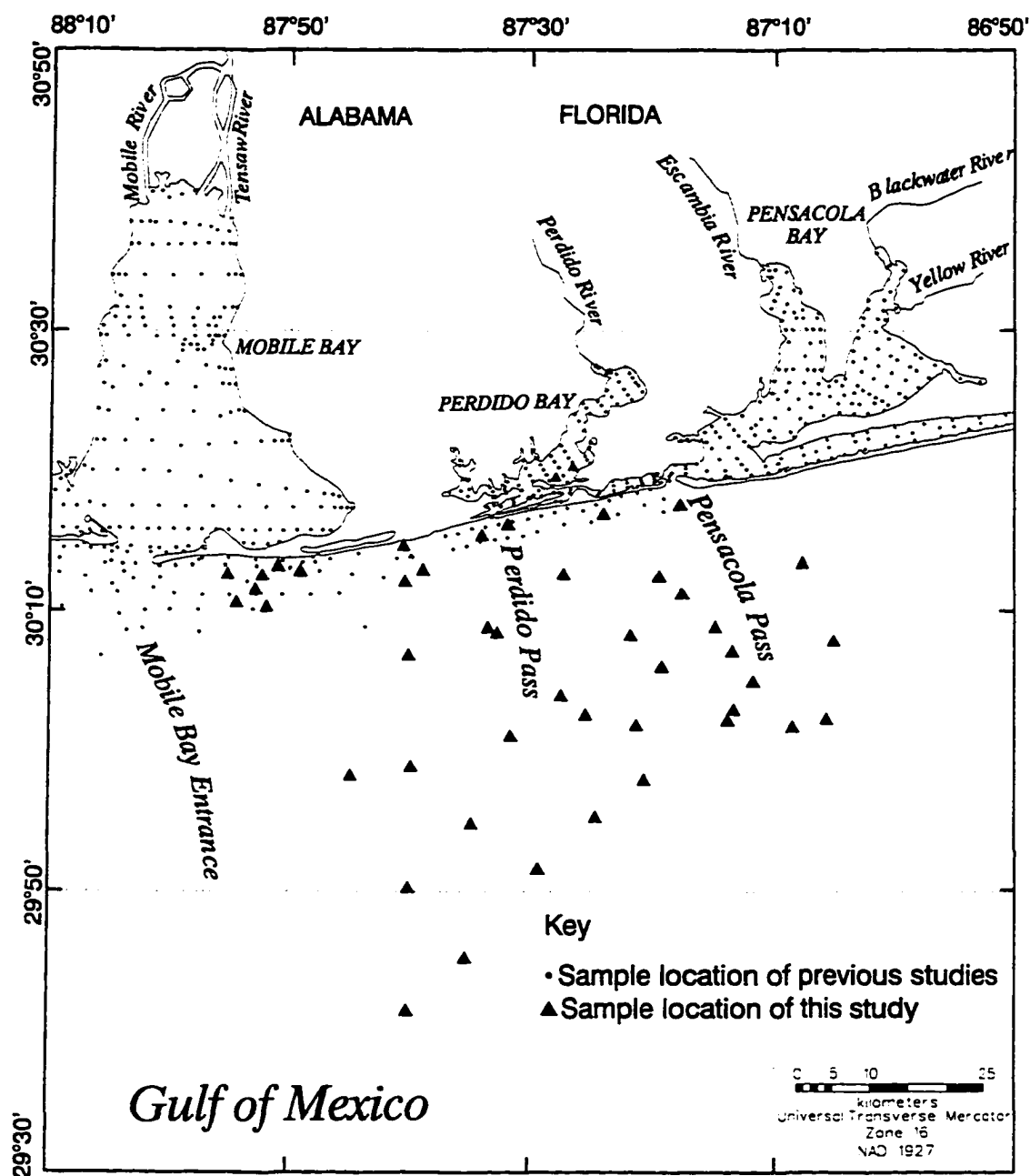


Figure 8. Distribution of surficial sediment sample locations on the shelf and in adjacent estuaries.

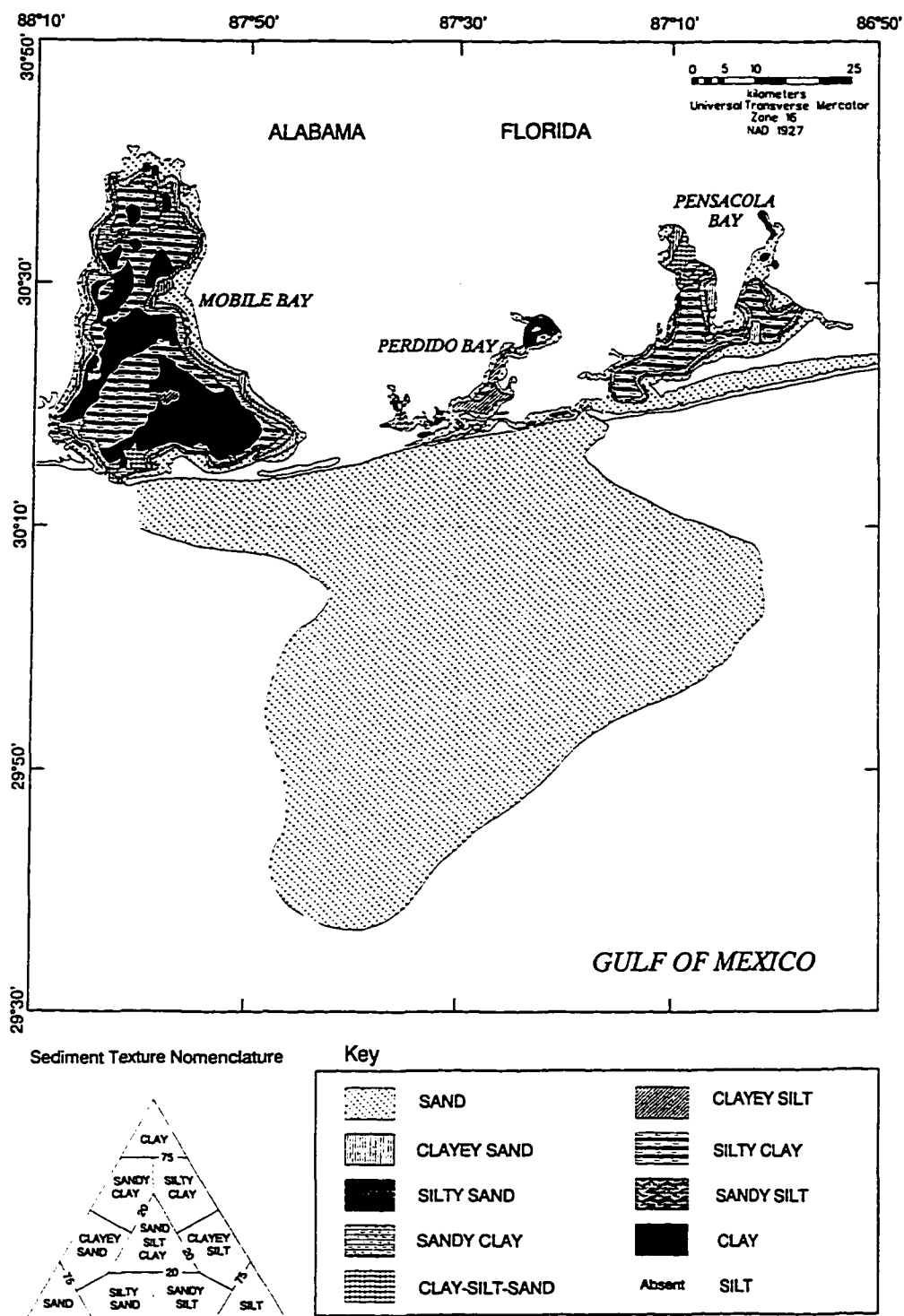


Figure 9. Spatial distribution of surficial sediments for the entire study area (from McBride and Byrnes, 1995). Sediment data based on samples collected for this study integrated with previous grain size studies (Horvath, 1968; Parker, 1968; Ryan, 1969; and Isphording and Lamb, 1979). See Figure 8 for specific sample sites.

(1980) on 10 sample sites located to the south and west of the study area described the surface sediments as >90% sand and <10% carbonate.

Although no discernable pattern in textural surface trends emerges in an offshore direction, surficial sediments display a definite size and sorting trend from east to west, grading from a moderately sorted, medium-grained quartz sand to a moderately well-sorted, fine-grained quartz sand (Figure 10). The boundary between these two textural zones is not only well-defined but also generally oriented in a northwest-southeast direction (although two outliers exist to the west). This sharp boundary suggests a natural fining in response to westward-directed littoral/shelf transport or a change in sediment source (e.g., dispersal pattern) affecting the western portion of the study area (e.g., Mobile River plume). The boundary most likely represents the contact or transition between the Apalachicola and Mobile subprovinces. Thus, the two zones show a lateral change in the surficial facies.

### **Mobile Bay**

Based on 191 grab samples collected from Mobile Bay (Ryan 1969, Table 9), mean diameters range from 0.002 to 0.42 mm (8.74 to 1.23 phi) or clay to medium sand (Figure 9). Clay and silty clay dominate the central portion of the Bay, whereas sand is found concentrated around the bay periphery and at the bay apex in the form of a bayhead delta. The transition between sandy and clayey facies occurs over a short distance, as indicated by thin bands of sandy clay and clayey sand. In general, sediments fine from north to south-southeast. Distribution of surficial sediments in Mobile Bay is based on Isphording and Lamb (1979) instead of Ryan (1969), as a result of inconsistencies between the sediment classification used by Ryan (1969) and Shepard (1954).



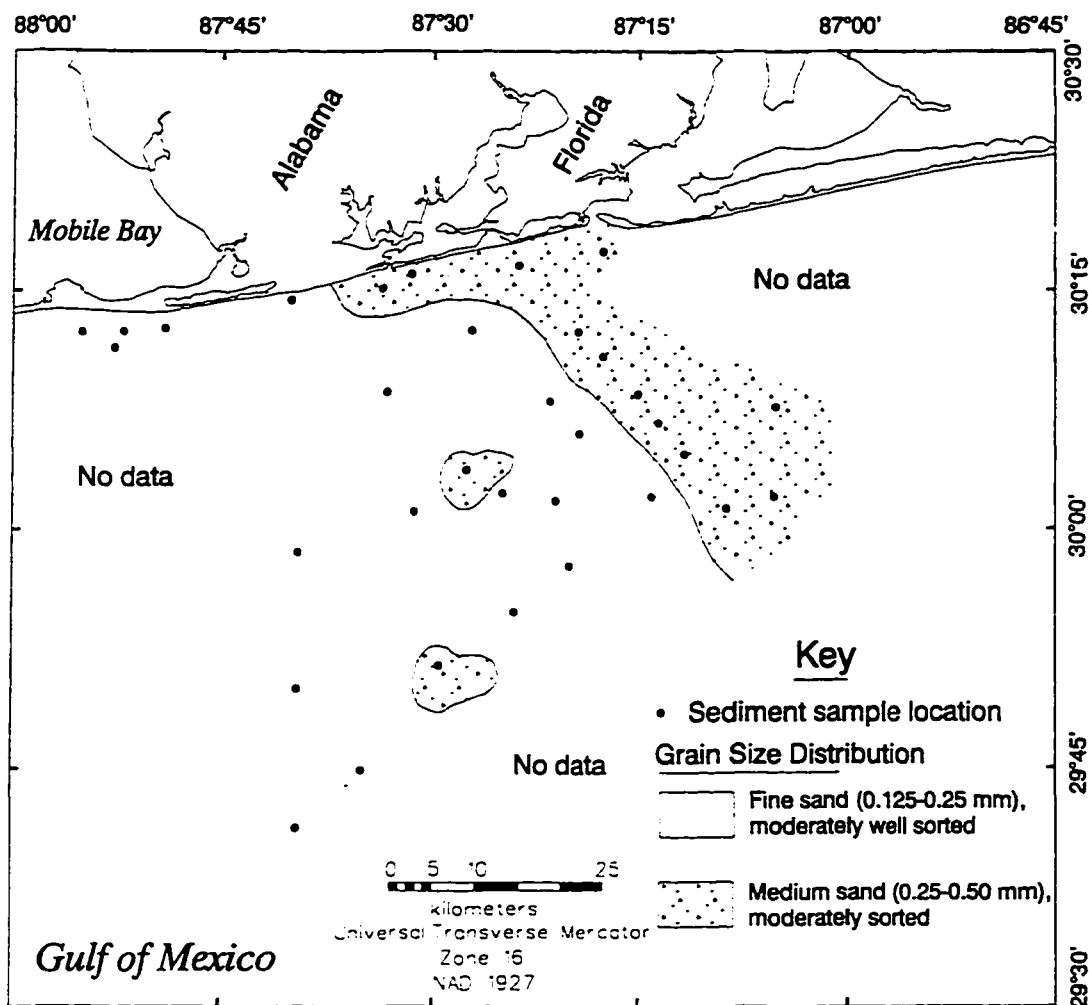


Figure 10. Grain size and sorting information for shelf sediments showing distinct boundary between the Apalachicola and Mobile subprovinces (modified from McBride and Byrnes, 1995).

### **Perdido Bay System**

Mean grain diameters in the Perdido Bay system range from 0.003 to 0.467 mm (8.35 to 1.10 phi or clay to medium sand), with an average of 0.07 mm (3.80 phi or very fine sand) based on 115 samples acquired by Parker (1968, Table 5). The finest mean grain sizes are found in Wolf (0.04 mm or 4.55 phi) and Perdido (0.05 mm or 4.31 phi) Bays, whereas those in Big Lagoon (0.15 mm or 2.72 phi) and Bayou St. John (0.17 mm or 2.57 phi) are coarser. Clayey silt and silty clay characterize the central, deeper portion of Perdido Bay, and sand dominates the narrow, shallow platform around the perimeter of the bay (Figure 9). To the north, surficial sediment distributions gradually coarsen to silty sand, sandy silt, and eventually sand as the bayhead delta is approached. Sediment size also coarsens in a southerly direction toward Perdido Pass. Big Lagoon is predominantly sand, with some patches of silty sand. Wolf Bay has a similar trend as Perdido Bay, with the finest sediments located in the central area and coarsening in either direction to the northwest and east-southeast.

### **Pensacola Bay System**

Mean grain size in the Pensacola Bay system ranges from 0.002 to 0.63 mm (8.85 to 0.66 phi or clay to coarse sand), with an average of 0.06 mm (4.13 phi) based on 214 samples collected by Horvath (1968, Table 17). The majority of the bay floor is covered with a silty clay, but sediment size progressively coarsens to sand in every direction from the center of the bay (Figure 9). Specifically, grain size for Escambia and Blackwater Bays coarsens northward. Mean grain size for Santa Rosa Sound, East Bay, Pensacola Bay, and Escambia Bay are 0.21 mm (2.23 phi), 0.05 mm (4.26 phi), 0.03 mm (4.98 phi), and 0.03 mm (5.05 phi), respectively (Horvath, 1968).

## Geologic Framework

The geology of transgressive deposits in the study area was delineated based on primary lithofacies and erosional surfaces derived from vibracores. Six regional cross-sections established the framework for determining sand-body geometry, depositional environments, and depositional history of the shelf. In addition, these data are interpreted within a sequence stratigraphic context.

### Lithofacies

Six primary lithofacies characterize Holocene and late-Pleistocene deposits found in the study area. These facies are identified based on primary sedimentary structures, sediment texture, microfauna, macrofauna, stratigraphic context, and position along the modern estuary-to-outer-shelf profile. The primary lithofacies were derived from the entire vibracore data set, but special attention focused on cores ALA-91-16, PEN-91-11, PEN-91-5, PEN-91-3, ALA-91-9, and PER-93-3 (see Figure 11; Appendix A; and McBride et al., 1996) due to the completeness of the Holocene record and/or geographic position of geomorphic importance (e.g., crest of linear shoal). In this document, facies is used as a descriptive term to characterize sedimentary deposits (see Moore, 1949; Selley 1970, 1988). Each facies is described from the base to top of section, followed by an interpretation of depositional environment and genesis.

**Facies 1.** *Facies 1* is a yellowish-burnt-orange and grey, massive to highly bioturbated, clayey quartz sand that is dense and mottled (Figure 11). Oxidized sediments dominate, indicating continuous to fluctuating subaerial exposure. Large burrows and possible root traces are present; however, macro- and microfossils are absent. The lower boundary of *Facies 1* is unknown but the unit is at least 0.15 m thick. The unit is truncated by an erosional surface, and the bulk density of *Facies 1* is much higher than overlying units. The erosional unconformity is directly overlain by either *Facies 2* or *3*.

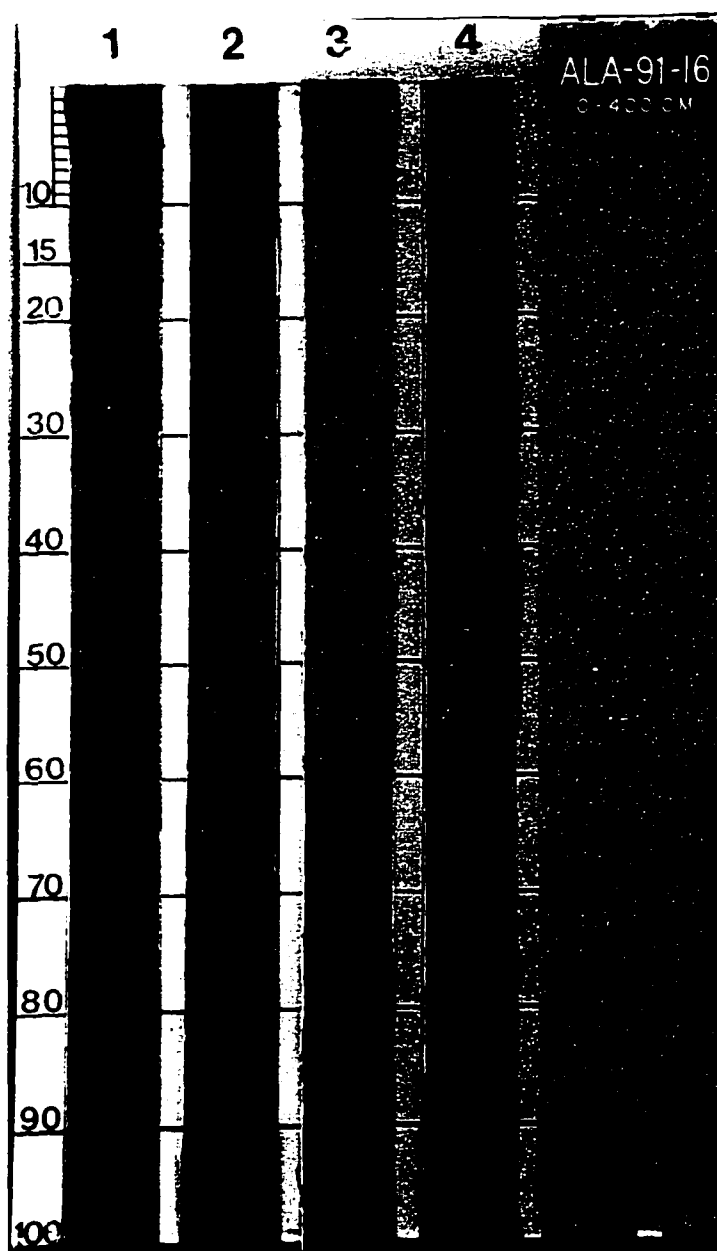


Figure 11. Core photograph of ALA-91-16 showing *Facies 1, 3, 5, and 6*. Core top is upper left and core bottom is bottom right. Scale in centimeters.

**Facies 1** is a well-developed soil horizon produced during prolonged subaerial exposure (erosional unconformity) and represents the top of the Pleistocene Prairie Formation. The soil horizon masks the original depositional environment making paleoenvironmental interpretation difficult because micro- and macrofauna are absent and physical sedimentary structures are lacking or obliterated. The unit probably represents some combination of sandy alluvial/fluviol/strandplain deposits (Fisk, 1944; Otvos, 1985; Snedden et al., 1994). The soil horizon and erosional unconformity probably were produced by subaerial weathering after sea-level fall.

**Facies 2.** *Facies 2* is a thin, matrix-supported shell bed that is typically 0.12 to 0.15 m thick. The bivalves *Chione cancellata*, *Parvilucina multilineata*, *Crassostrea virginica*, *Nuculana acuta*, and *Anomia simplex* are common, and the shell bed has a muddy-quartz-sand matrix. Most bioclasts are excellently preserved. For example, *Chione cancellata* shells have retained their delicate ornamentation. The dominant benthic foraminifer is *Ammonia parkinsoniana* (40 to 71%). *Elphidium poeyanum* is the second dominant hyaline species (4 to 6.5%), whereas *Quinqueloculina lamarckiana* is the leading porcelaneous species (6 to 11%). *Facies 2* is not always present in the study area.

Both mollusk and foraminiferal assemblages of the thin shell bed are dominated by brackish-water species, suggesting that the unit formed as a lag at the bottom of a marine-influenced estuary or at the base of the bay shoreface. Although this shell lag is concentrated by wave processes on an erosional surface, the shells underwent limited transport and reworking as indicated by their generally excellent preservation.

**Facies 3.** *Facies 3* is a grayish-brown to tan, bioturbated to horizontally-laminated, muddy-fine-quartz sand with scattered bioclasts. Well-developed, yellowish-burnt-orange and grey rip-up clasts (3 x 6 cm) may occur within the lower portion of *Facies 3* (Figure 11). Dominant benthic foraminifera are *Ammonia parkinsoniana* (10 to 42%) and the genus

*Elphidium* (i.e., *Elphidium poeyanum*, *Elphidium mexicanum*, *Elphidium* spp.; 8 to 16%). The foraminiferal assemblage is similar to *Facies 2*, but the abundance of *Ammonia parkinsoniana* decreases upward. This facies ranges from 0.25 to 1.80 m thick and is truncated by another distinct erosional surface. *Facies 3* is not always encountered in the study area.

*Facies 3* represents shallow estuarine deposits (e.g., shallow subtidal around the perimeter of central estuary basin; Segments 1 and 2 of Zaitlin et al., 1994, p. 48), based on stratigraphic context and the *Ammonia-Elphidium* foraminiferal assemblage. The steady decline of *Ammonia parkinsoniana* from *Facies 2* up through the top of *Facies 3* is interpreted to represent the increasing influence of normal-marine waters as the estuarine system undergoes transgression. Rip-up clasts incorporated within *Facies 3* were derived from *Facies 1*. These rip-up clasts likely formed as the mainland shoreline eroded and Pleistocene deposits (*Facies 1*) slumped into the bay and were reworked by waves during the passage of strong cold fronts and tropical cyclones (i.e., tropical storms and hurricanes), similar to modern mainland shoreline response in this area.

**Facies 4.** *Facies 4* is dominated by a dark gray, horizontally-laminated silty clay with subtle bioturbation and some distinct burrows. This unit also is characterized by: 1) thick, graded, shell-rich zones with a clayey silt matrix or 2) thin (1-5 cm), shelly fine to medium sand layers interlaminated with clay that appear to have normal and reverse grading. The benthic foraminifera assemblage is dominated by *Ammonia parkinsoniana* (up to 69%); however, the genera *Elphidium* (i.e., *Elphidium* spp., *Elphidium gunter*) and *Haynesina* spp., are also common (Gangopadhyay et al., 1996). The foraminifera assemblage in *Facies 4* is based on two surface samples collected in Perdido Bay. The molluscan assemblage is dominated by small bivalves including *Mulinia lateralis*, *Nuculana*

*concentrica*, and *Anadara transversa*. *Facies 4* ranges between 1 and 4 m thick. When present, *Facies 4* is truncated by an erosional surface.

Based on the predominance of clay and estuarine foraminiferal and molluscan assemblages, this unit represents an estuarine environment that ranges from a quiescent, partially-enclosed, deeper-water estuary (central basin) to a marine-influenced open bay. The former is dominated by suspension deposition except during high-energy events (i.e., tropical cyclones or strong cold fronts) that are responsible for the thin shelly sand layers, whereas the latter is located further downdip (seaward) and is influenced by both marine and estuarine processes.

**Facies 5.** *Facies 5* is a well-developed, clast- or matrix-supported shell bed (Figures 11 and 12). The mollusks *Chione intapurea*, *Macrocallista maculata*, *M. nimbosa*, *Ervilia nitens*, and *Anomia simplex*, as well as large soritid foraminifera and cupularid bryozoans, are common (Anderson and McBride, 1996). Although a full spectrum of preservation states is present, most bioclasts are pristine or only slightly altered. The shell bed is up to 0.88 m thick, with a fine-to-medium-quartz-sand matrix and some quartz granules and pebbles found toward the base of the unit. In addition, the shell bed tends to be graded, with large (up to 6 cm) bioclasts crudely stratified (concave up, stacked, and random fabrics) at the base that fine upward into horizontally-laminated to massive, shelly (<0.25 cm) fine quartz sand. The sand component of *Facies 5* tends to be moderately well-sorted, strongly coarse-skewed, and strongly leptokurtic. Dominant benthic foraminifera are the hyaline species *Hanzawaia concentrica* and *Asterigina carinata*, but porcelaneous species *Cyclorbiculina compressa*, *Parasorites orbitolitoideis*, and *Peneroplis proteus* also are common.

The bioclasts of *Facies 5* are dominated by a primarily shallow-marine molluscan assemblage and, to a lesser extent, a more poorly-preserved estuarine component

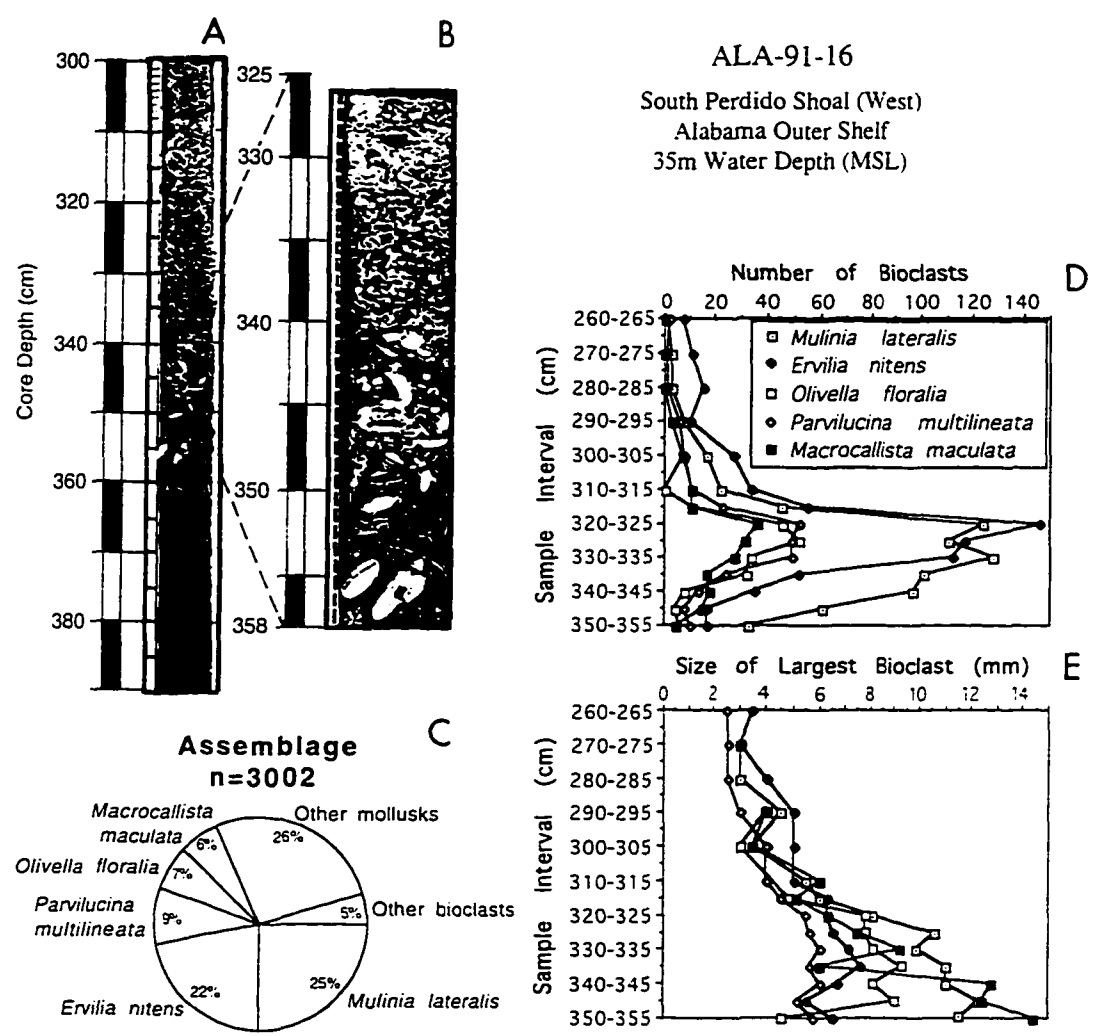


Figure 12. A. Core photograph of ALA-91-16 showing the marine shell bed (Facies 5). B. Close-up core photograph of lower portion of Facies 5 showing excellent normal grading of bioclasts. C. Pie diagram illustrating proportions of dominant bioclasts. D. Number of bioclasts per sample with depth for common species. E. Size of largest bioclast per sample with depth for common species (from Anderson and McBride, 1996).



(Anderson and McBride, 1996). The shell bed most likely formed at the base of the shoreface by high-energy physical processes (i.e., strong cold fronts and tropical cyclones) and/or large-scale bedform migration on a dynamic shelf that concentrated, vertically mixed, and amalgamated bioclasts. Shells of *Facies 5* were probably concentrated initially as a transgressive lag that eroded estuarine (*Facies 2-4*) and shoreface deposits and subsequently was buried by sand deposition on the shelf (*Facies 6*; see below). *Facies 5* was later reactivated and amalgamated by high-energy events that incorporated younger shells (see  $^{14}\text{C}$  dating section below).

**Facies 6.** *Facies 6* is characterized by creamy light tan, massive to planar-laminated, fine-to-coarse quartz sand, with widely scattered shell fragments (Figure 11). *Facies 6* tends to fine and becomes better sorted upward. The size distribution of sand is leptokurtic throughout. Benthic foraminifera are dominated by hyaline species *Hanzawaia concentrica* and *Asterigina carinata*, but porcelaneous species *Cyclorbiculina*, *Parasorites orbitolitoide*s, *Peneroplis proteus*, *Articulina mexicana*, and *Quinqueloculina agglutinans* also are common.

*Hanzawaia concentrica* often dominates assemblages of inner continental shelves, particularly in sandy substrates. In modern, inner-shelf, clastic sediments of the northern Gulf of Mexico, a *Hanzawaia* "generic predominance" biofacies can be mapped on the basis of high numbers of *Hanzawaia concentrica* (Poag, 1981). In contrast, the large porcelaneous foraminifers (especially *Cyclorbiculina* and *Parasorities*) do not presently live in the region but did inhabit coastal seagrass habitats or carbonate rubble in the middle to late Holocene under more favorable environmental conditions (Anderson et al., 1997). Consequently, the thick deposit of sand comprising *Facies 6* is interpreted as a shelf sand sheet (MAFLA). The sand is sourced from the eroding shoreface (Swift et al., 1991b, p.

91), transported offshore, and deposited (autochthonous sedimentation; Swift and Thorne 1991), but it is extensively reworked during high-energy events.

### **Shelf Stratigraphy**

Six regional cross sections were constructed for the study area based on correlation among 34 vibracores (Figures 13 through 18). Sedimentary facies and major erosional surfaces, representing regional unconformities or diastems, were used to determine primary stratigraphic correlation among cores. Time lines do not cross an unconformity but will cross a diastem, resulting in a diachronous surface (Nummedal and Swift, 1987).

**Strike Sections.** Three strike sections were constructed along the shoreface, the middle shelf at North Perdido Shoal, and the outer shelf at South Perdido Shoal (Sections AA-AA', A-A', and B-B'; Figures 2, 13, 14, and 15). Two regional erosional surfaces were identified and used to correlate among vibracores (Table 2). The first erosional surface is located between *Facies 1* and *Facies 2* or 3. Based on adjacent facies, the surface is interpreted as an erosional unconformity that formed during the last fall in eustatic sea level and was subsequently modified by a bay ravinement diastem produced during the last post-glacial rise in sea level. The second erosional surface is situated between *Facies 3* or 4 and *Facies 5*. Based on the predominant shallow-marine assemblage of *Facies 5* and stratigraphic context, this surface is interpreted as a shoreface ravinement diastem.

Cross-section AA-AA' is a strike-oriented cross section along the base of the shoreface in water depths that average 10 m (Figure 13). Vibracore ALA-91-3 is virtually identical to the vertical succession found in ALA-91-16 and thus provides key control for this cross section. The base of core ALA-91-3 penetrates the top of the Pleistocene soil horizon (*Facies 1*) and is overlain by a vertical succession that contains an erosional unconformity, estuarine deposits (*Facies 2*), a shoreface ravinement diastem, a shell bed

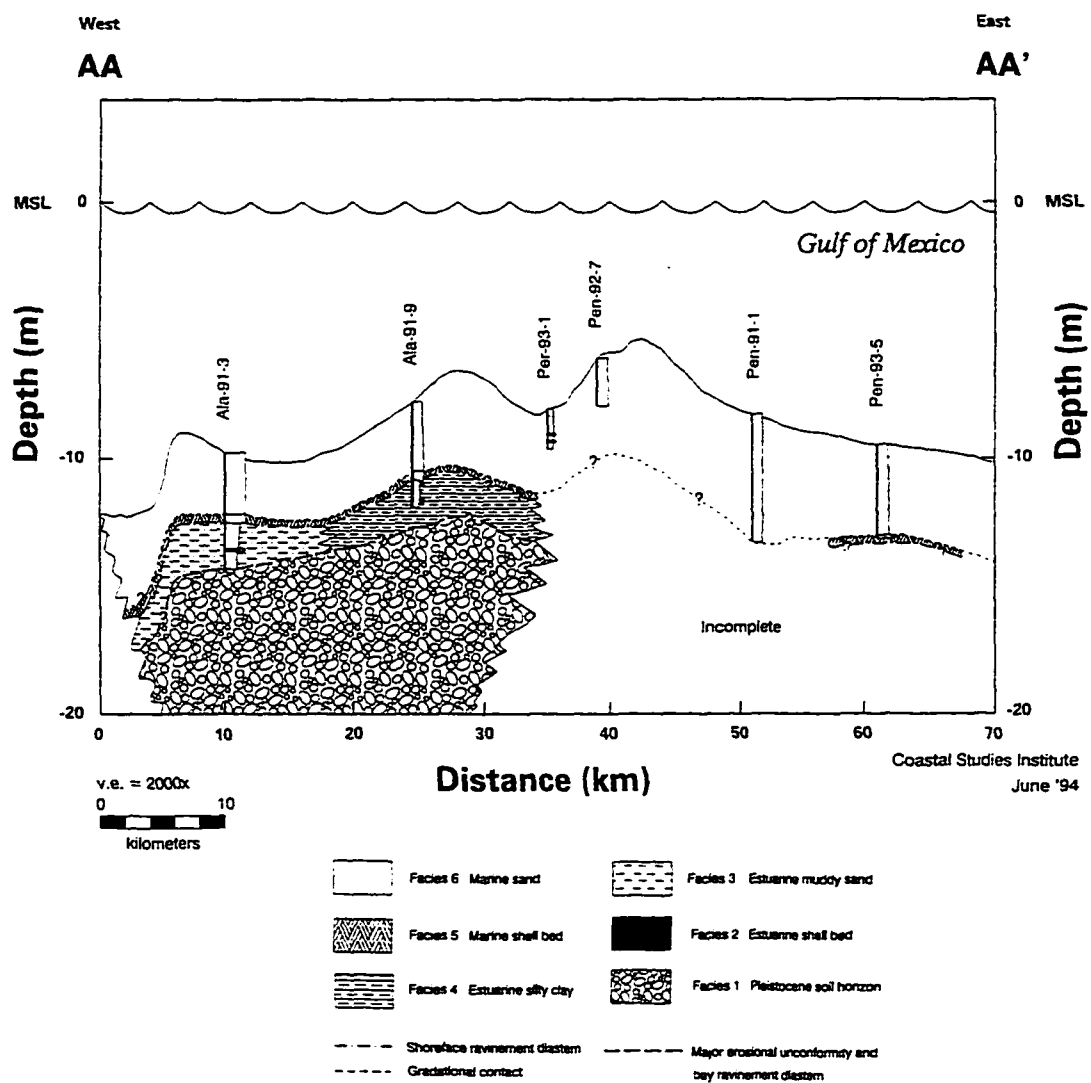


Figure 13. Strike-oriented geologic cross section AA-AA' along the base of the shoreface (~10 m water depth). Vertical exaggeration is 2000x. See Figure 2 for location.

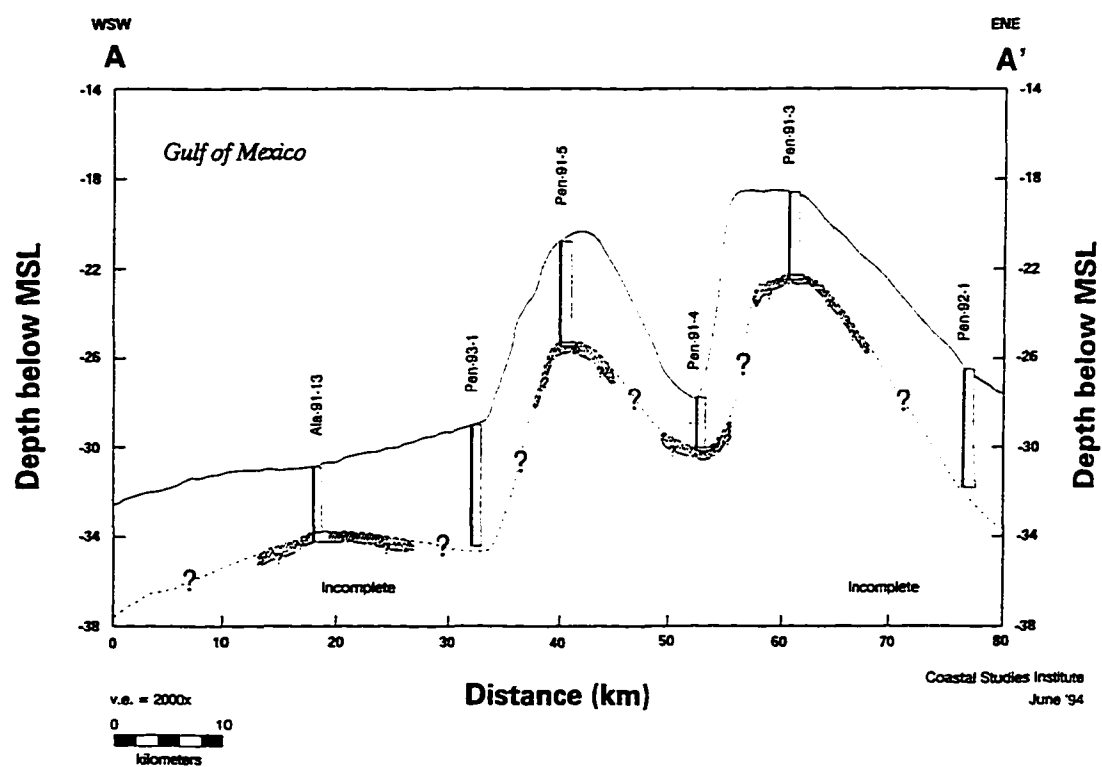


Figure 14. Strike-oriented geologic cross section A-A' along the crest of North Perdido Shoal. Vertical exaggeration is 2000x. See Figure 2 for location and Figure 13 for legend.

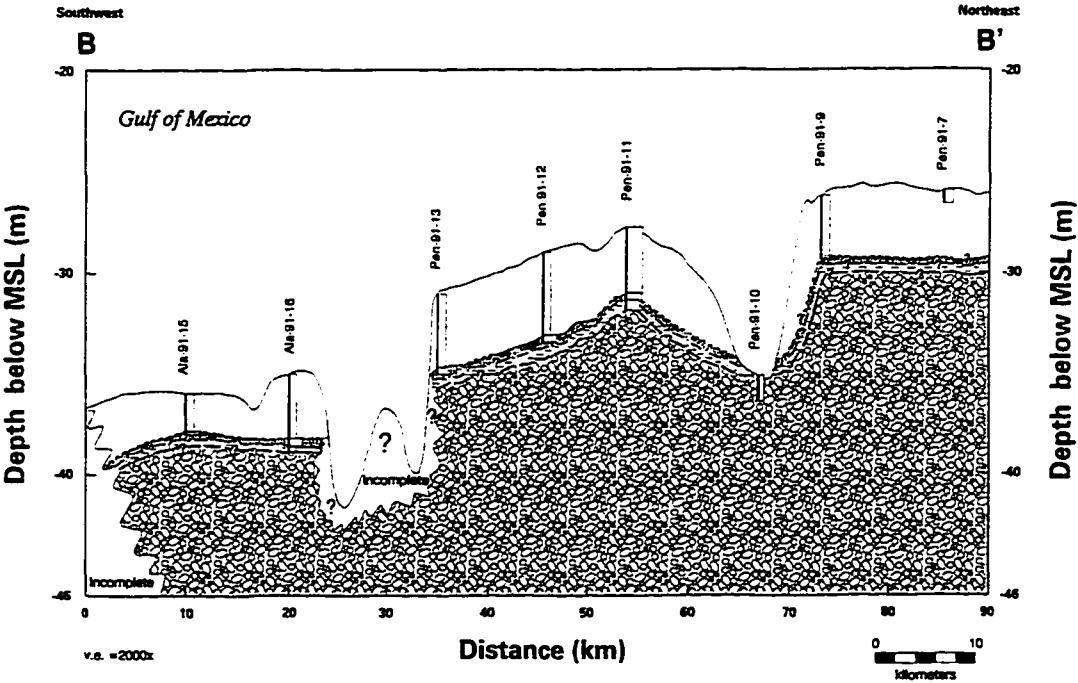


Figure 15. Strike-oriented geologic cross section B-B' along the crest of South Perdido Shoal. Vertical exaggeration is 2000x. See Figure 2 for location and Figure 13 for legend.

(*Facies 5*), and capped by marine sand sheet (*Facies 6*). A lateral facies change occurs within the estuarine deposits from a bioturbated sandy silt (*Facies 3*) to a laminated to slightly bioturbated clay (*Facies 4*). The remaining cores stop within or at the base of the marine sand (*Facies 6*).

Cross-section A-A' is a strike-oriented cross section along the crest of North Perdido Shoal (Figures 2 and 14). North Perdido Shoal is much shorter than South Perdido Shoal but has similar thickness. Although cores had penetration depths up to 5.4 m (Pen-93-1), no estuarine or pre-Holocene deposits were encountered. Consequently, the cores are composed entirely of marine sediments and are correlated based on basal shell beds (*Facies 5*) that most likely sit on top of the shoreface ravinement surface (Table 2). Pristine shells from PEN-91-5 (*Facies 5*) yielded radiocarbon dates ranging in age from 1,720 to 1,150 yrs. B.P., whereas dates from PEN-91-3 range from 3,190 to 1,460 yrs. B.P. (Table 1). Dates this young, at these depths, and buried by up to 4 m of sand, reveal extensive stratigraphic mixing.

The overlying clean quartz sand (*Facies 6*) is dominated by a marine foraminiferal assemblage. However, AMS dates ( $3,640 \pm 60$  yrs. B.P. @ 123 - 128 cm and  $2320 \pm 60$  yrs. B.P. @ 410 - 415 cm in PEN-91-5) obtained from large foraminifers are stratigraphically disordered (Anderson et al., 1997). Moreover, AMS dates of large foraminifers are older than the underlying shell dates in *Facies 5* of the same core, which further substantiates the complete mixing of *Facies 5* and 6. North Perdido Shoal, therefore, is interpreted as a reworked, marine sand shoal with no *in-situ* barrier shoreline deposits.

Cross-section B-B' is a 90-km strike-oriented cross section along the crest of South Perdido Shoal (Figures 2 and 15). The soil horizon (*Facies 1*) and overlying erosional unconformity occur at the base of core ALA-91-16 and at the top of PEN-91-10. This erosional unconformity is overlain by estuarine deposits (*Facies 2* and 3) in cores ALA-91-

16 and PEN-91-11. Three almost identical AMS dates of 10,200, 10,070, and 10,040 yrs. B.P. were obtained from pristine *Chione cancellata* shells at the base of PEN-91-11, indicating minimal to no time-averaging and reworking (Tables 1 and 2).

The estuarine deposits (*Facies 2 and 3*) are truncated by a second erosional surface that lies at the base of the distinctive shell bed (*Facies 5*). This shell bed was found in most cores and was used to correlate the shoreface ravinement diastem (Table 2). Radiocarbon dates of shells (*Facies 5*) within and among cores yielded dates ranging from 10,160 to 1,460 yrs. B.P. (Table 1). Although the shell bed dips to the west and ranges from -29 to -39 m below MSL, this wide range of dates was unexpected and suggests that the shell bed underwent (and possibly continues to undergo today) extensive mixing and is time-averaged over a period of 8,700 years.

The shell bed grades up into a thick (up to 4.1 m) clean quartz sand (*Facies 6*) interpreted as a large, reworked marine sand shoal because of the following: 1) its stratigraphic position above the shoreface ravinement diastem, 2) abundance of a marine foraminiferal assemblage, and 3) contains both stratigraphically ordered (4340±60 yrs. B.P. at 0 - 2 cm; 6010±60 yrs. B.P. at 360 - 365 cm in PEN-91-13) and disordered (5660±50 yrs. B.P. @ 0 - 5 cm and 3110±60 @ 340 - 345 cm in PEN-91-11) AMS dates obtained from large foraminifer (see Anderson et al., 1997). No *in-situ* barrier shoreline deposits were encountered. The marine sand comprising South Perdido Shoal tends to thin to the west and is part of the extensive MAFLA sand sheet.

**Dip Sections.** Cross-sections D-B', D-D', and E-E' extend from the Alabama/Florida coastal region seaward to the outer continental shelf (Figures 2, 16, 17, and 18). North Perdido Shoal is delineated by vibracores PEN-91-3 and PEN-91-5, whereas South Perdido Shoal is depicted by vibracores ALA-91-15, PEN-91-11, and PEN-91-9. The most striking characteristic of the cross sections is the thickness and amount

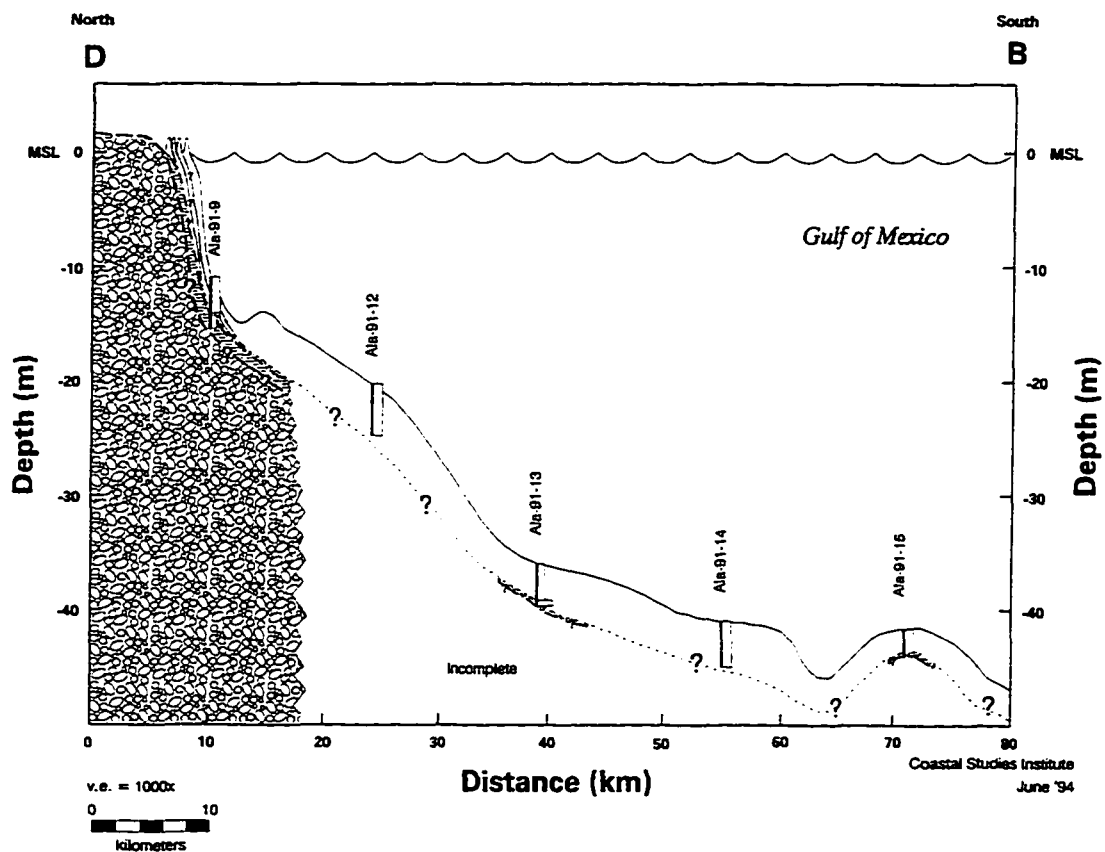


Figure 16. Dip-oriented geologic cross section D-B' that extends south from the Gulf Shores, Alabama area to the outer continental shelf. Vertical exaggeration is 1000x. See Figure 2 for location and Figure 13 for legend.



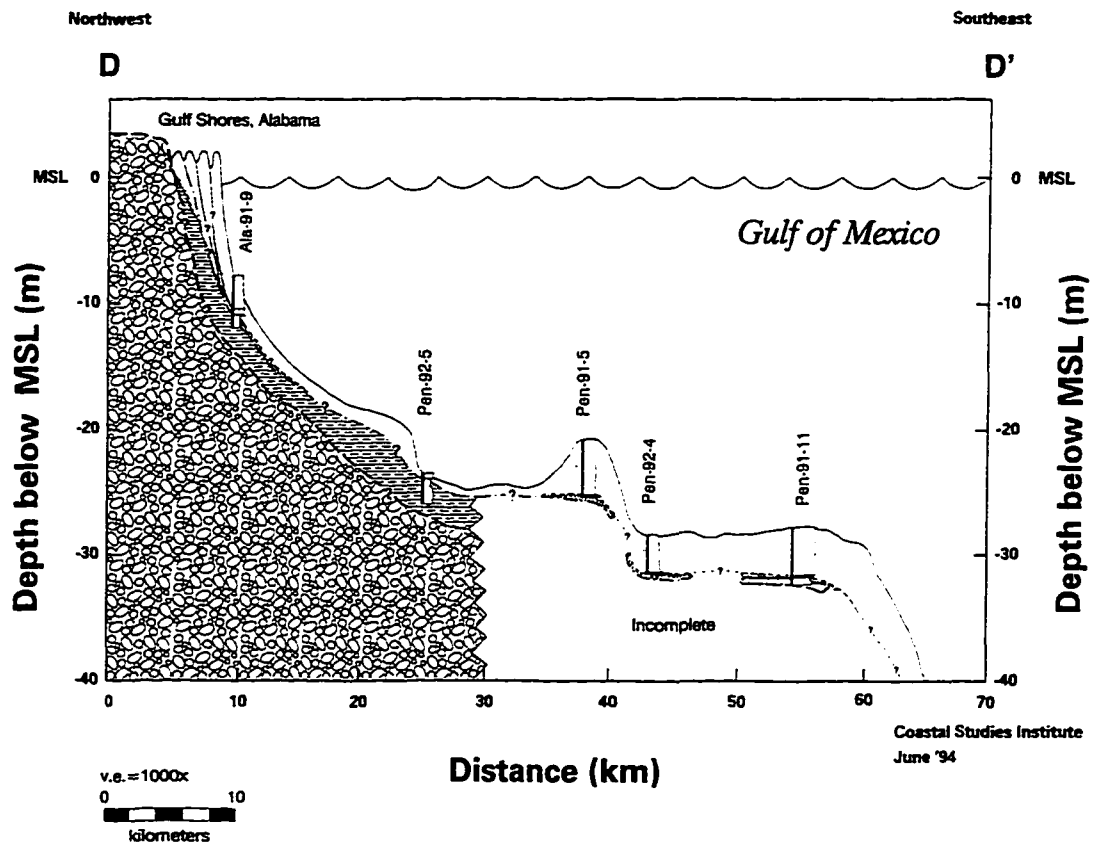


Figure 17. Dip-oriented geologic cross section D-D' that extends southeast from the Gulf Shores, Alabama area to the outer continental shelf. Vertical exaggeration is 1000x. See Figure 2 for location and Figure 13 for legend.

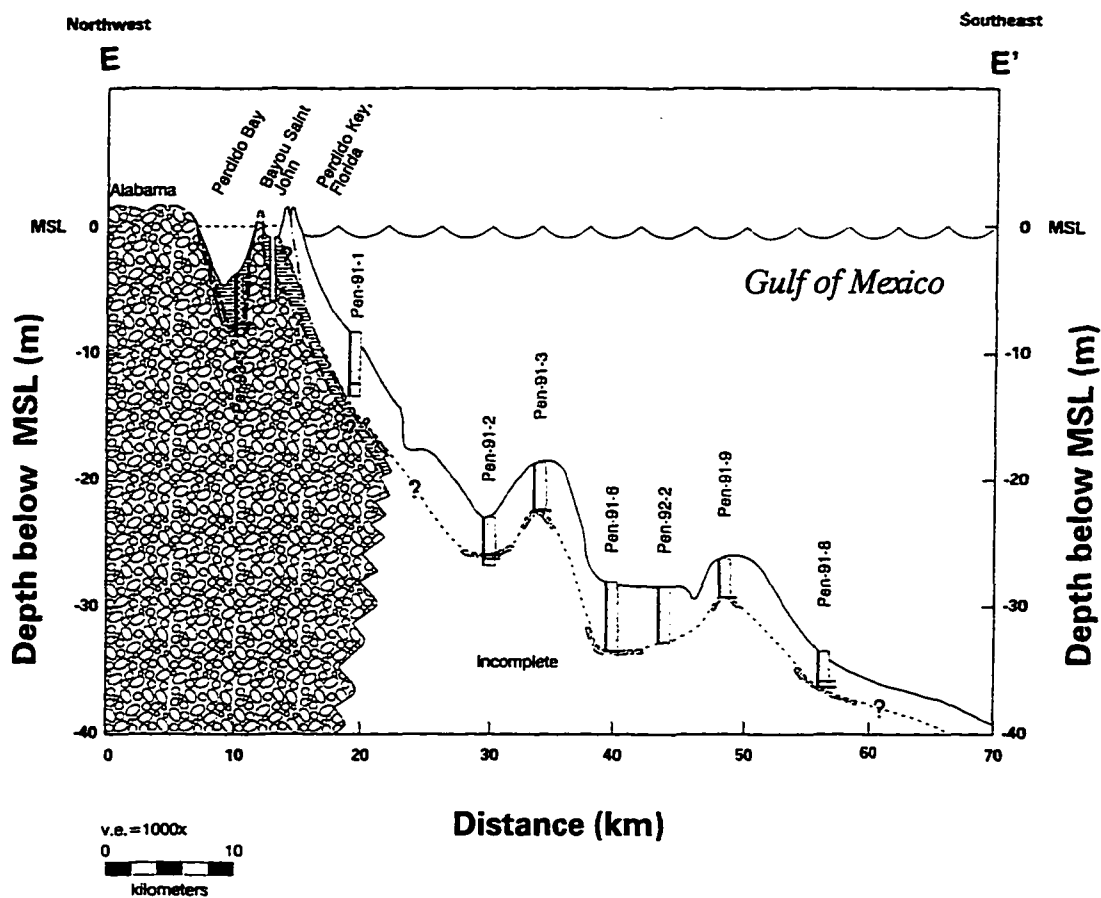


Figure 18. Dip-oriented geologic cross section E-E' that extends southeast from Perdido Bay, Alabama/Florida to the outer continental shelf. Vertical exaggeration is 1000x. See Figure 2 for location and Figure 13 for legend.

of sand comprising the MAFLA sand sheet (*Facies 6*). The sand sheet maintains its thickness both in an offshore and alongshore direction except for the inner shelf area along section B-B' (vibracore Pen-92-5 at 25 km). Additionally, the sand sheet appears to drape the underlying topography.

In the study area, sediments of the MAFLA sand sheet (*Facies 6*) fine both vertically and horizontally. The sand package not only fines upward but also shows a definite fining trend to the west from a moderately sorted, medium-grained quartz sand to a moderately well-sorted, fine-grained quartz sand (Figure 10). It is not clear whether this horizontal trend is related to physical oceanographic processes that transport sediment to the west, similar to the littoral drift direction, or whether it is related to the natural zonation of sediment suites derived from different fluvial sources (e.g., Apalachicola and Mobile subprovinces). In addition, an isopach map of the surficial sand sheet shows two shore-normal lobes that are >5 m thick (Figure 19). The two thick lobes of sand, which do not mimic surface morphology (i.e., North and South Perdido Shoals), are separated by a shore-normal thin zone (<2 m thick) that corresponds to a bathymetric low (interpreted as an antecedent fluvial valley), as shown in Figures 1 and 3. The calculated volume of this large, regional sand body is 4.9 billion m<sup>3</sup>; an excellent reservoir-quality sand.

### **Radiocarbon Ages of Mollusks and Sea-level Change**

Conventional and AMS radiocarbon dates of molluscan shells from the study area range from 12,600 to 1,150 yrs. B.P (Table 1). All molluscan shells were collected from estuarine (*Facies 2*) and marine (*Facies 5*) shell beds. Dates from the estuarine shell bed range from 12,600 to 5,450 yrs. B.P., whereas marine shell dates range from 10,160 to 1,150 yrs. B.P. Although most shell beds are concentrated along transgressive erosional surfaces, only estuarine (*Facies 2*) shell beds are time-transgressive and young in an up-dip direction corresponding to the post-glacial rise in eustatic sea level. By contrast, the

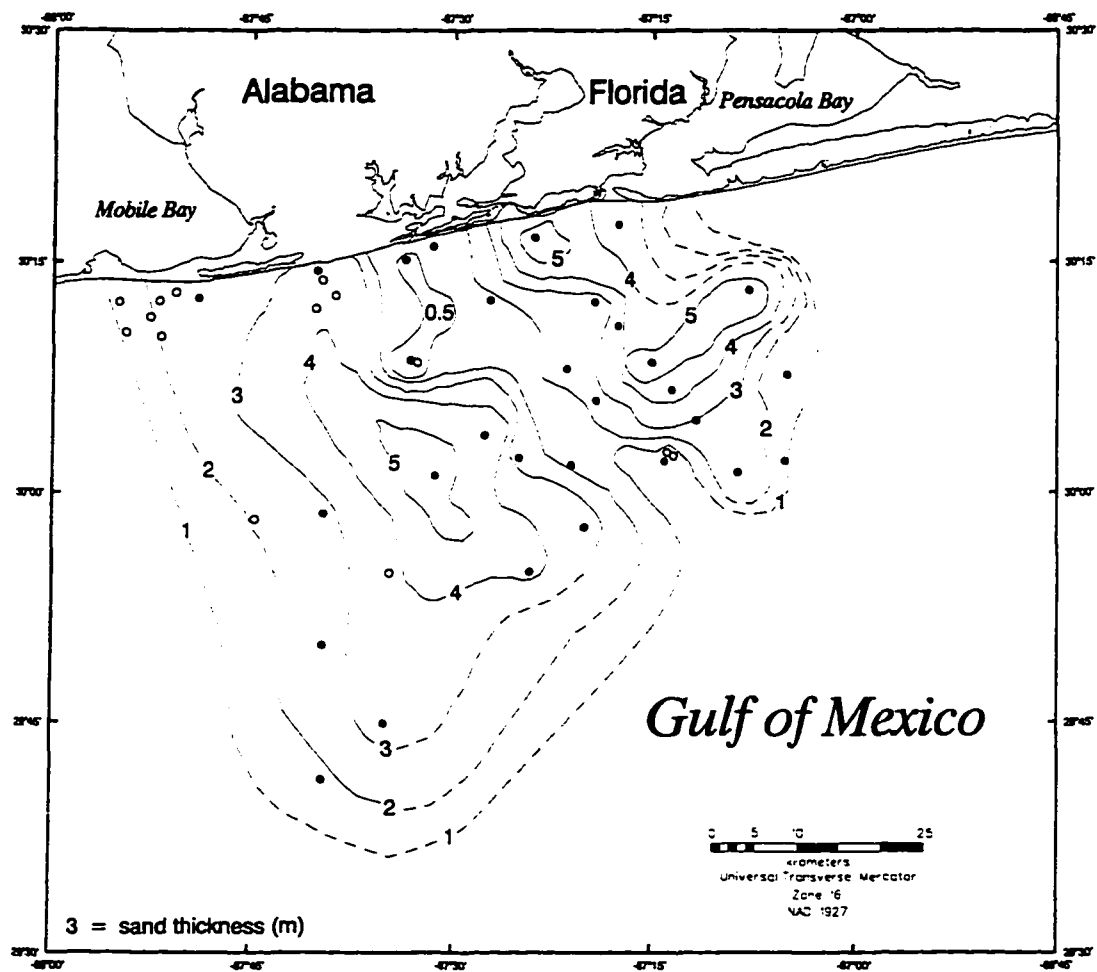


Figure 19. Isopach of the upper marine section that contains the shell bed (*Facies 5*) and the MAFLA surficial sand sheet (*Facies 6*).

distribution of shell dates from *Facies 5* was flat in comparison to the eustatic sea level curve, indicating extensive mixing and time-averaging of bioclasts (Figure 20).

Although age-depth relationships of *Facies 5* mollusks are inconsistent with previously published sea-level curves for the Gulf of Mexico, the pattern observed can be explained by examining environmental preferences of the species dated. *Eucrassetella speciosa*, *Linga pensylvanica*, *Argopecten gibbus*, and *Macrocallista maculata* consistently give radiocarbon dates that are "too young," yielding middle to late Holocene dates of <5,630 yrs. B.P. (Table 1, marine shells of Figure 20). Published environmental ranges indicate that the upper depth limit of these species is the lower shoreface or shelf (Parker, 1956, 1960; Andrews, 1971; Jervy, 1974; NOAA, 1985), although Schweimanns and Felbeck (1985) report *Linga pensylvanica* from shallow water *Thalassia* beds off Bermuda. In contrast, *Macrocallista nimbosa*, which provided dates consistent with Gulf-of-Mexico sea-level curves (>9,440 yrs. B.P.), is most common on the upper shoreface and in bay waters (Moore, 1961; Andrews, 1971; Jervy, 1974; NOAA, 1985). *Oliva sayana* produced a wide range of dates (9,770 to 1,420 yrs. B.P.), but this species also has a wide environmental range in this part of the Gulf (Parker, 1956, 1959, 1960; Jervy, 1974). The mixing of young bioclasts of deeper-water species (lower shoreface and shelf dwellers) with older shallow-water species (upper shoreface) indicates reworking of the entire marine section and concentration of a time-averaged assemblage at the base of the marine section. Therefore, these shell beds likely are the result of a two-step process: 1) shallow-marine species are concentrated into a transgressive lag at the base of the shoreface during transgression and 2) younger, deeper-water species subsequently are incorporated into the basal lag through reworking of the entire marine section by post-transgressive processes.

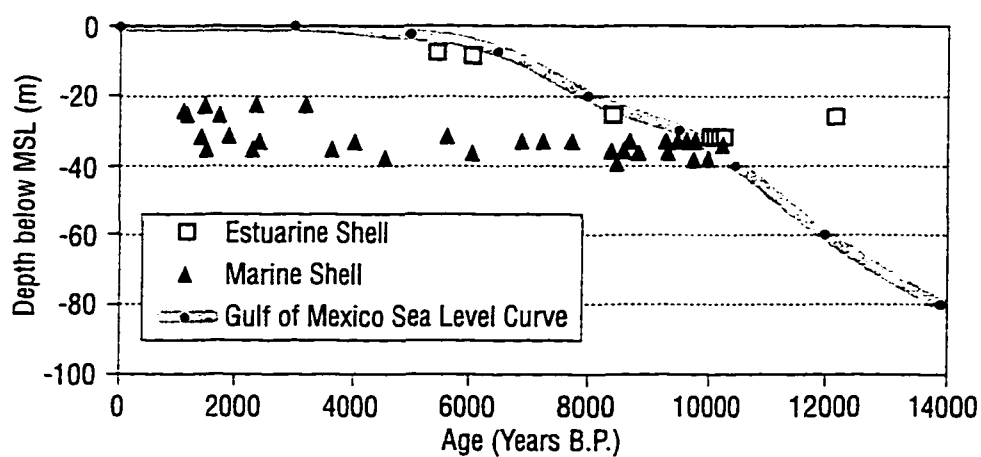


Figure 20. Distribution of  $^{14}\text{C}$  dates according to depth (m) below mean sea level (MSL). Eustatic sea level curve for the Gulf of Mexico is based on data from Curray (1965).

Proposed post-transgressive sedimentary models to explain processes forming graded shelf deposits (e.g., *Facies 5* and *6*) include: 1) long-term transgressive stratigraphy, 2) storm-graded bed, 3) bedform migration, and 4) vertical liquefaction related to natural and/or human-induced processes (Figueiredo et al., 1982). The **stratigraphic model** pertains to the formation of a transgressive lag during erosional shoreface retreat (time-transgressive) that is gradually buried by a fining-upward, surficial sand sheet in response to long-term relative sea level rise. The **storm graded model** involves reactivation and mixing of the entire marine section with coarser sediment transported as bedload or left as a lag deposit followed by suspension deposition of finer sediment in response to a single storm event. As the storm wanes, sediment is deposited as a normally graded unit. These deposits form over several hours to several days and tend to blanket large areas of the shelf. The **bedform migration model** includes mixing caused by the migration of large bedforms (i.e., sand waves, sand ridges) in response to multiple storm events. The **vertical liquefaction model** involves the downward movement of larger and typically heavier sediment clasts (e.g., shells) when upper marine sands liquefy in response to storm waves feeling bottom during storm events or vibracoring.

Radiocarbon dates from shells in the study area reveal a history of extensive mixing and time-averaging, thus supporting an origin related to progressive sorting (i.e., **stratigraphic model**) and a combination of bedform migration and/or vertical liquefaction. Genesis related to the **storm graded** model is highly unlikely because the graded marine section is up to 5.5 m thick. Shallow-marine storm deposits typically are <50 cm thick (Reineck and Singh, 1972; Kumar and Sanders, 1976; Kreisa, 1981; Morton, 1981; Aigner, 1985; Snedden et al., 1988; Siringan and Anderson, 1994).

Several studies have noted the importance of using shoreline species, especially estuarine mollusks, to reconstruct past sea-level change (Curry, 1960, 1965; Macintyre

et al., 1978). The radiocarbon data show that dates from estuarine and, to a lesser extent, very-shallow-marine shells fit eustatic sea-level curves (Curry, 1965; Fairbanks, 1989; Bard et al., 1996), whereas deeper-water species do not. This relationship demonstrates that both state of carbonate material (pristine vs. reworked) and habitat preference are important criteria for selecting and dating bioclasts. As a result, radiocarbon dates reported in this study not only supply additional points for constructing a true eustatic sea-level curve for the Gulf of Mexico, but also provide a unique perspective regarding the extent to which physical processes affect marine transgressive deposits.

### Sequence Stratigraphy

In a sequence stratigraphic framework (Posamentier et al., 1988; Posamentier and Vail, 1988; Walker, 1992), *Facies 1* represents a Pleistocene soil horizon that was subaerially exposed during the last sea-level lowstand, approximately 18,000 yrs. B.P. (Table 2). The magnitude of this sea-level drop was about 120 m (Curry, 1965; Fairbanks, 1989; Bard et al., 1996) causing fluvial incision as the shoreline migrated seaward to the edge of the continental shelf. Consequently, most of the shelf surface was subaerially exposed producing a Type 1 sequence boundary on top of the former highstand systems tract (HST). Shelf-margin delta deposition (i.e., lobes; see Figures 1 and 3) probably occurred downdip contemporaneously with sequence boundary formation.

The sequence boundary was further reworked by a marine flooding surface (i.e., bay ravinement diastem), which was a response to the last deglaciation. Therefore, the erosional unconformity observed between *Facies 1* and *Facies 2* or *3* stems from a combination of subaerial exposure during sea-level lowstand and the bay-ravinement process during the ensuing transgression. *Facies 2*, *3*, and *4* represent the lower transgressive systems tract (TST), consisting of various estuarine environments (Table 2). As transgression continued, the outer shoreline translated landward and upward through



Table 2. Geologic framework of the transgressive systems tract in the northeastern Gulf of Mexico.

Lithofacies	Occurrence	Sedimentology	Paleontology	Age (kyr. B.P.)	Primary Environment	Sub Environment	Sequence Stratigraphy	Thickness (m)
Surface 3					Modern seafloor		Maximum Flooding Surface	
Facies 6	PEN-91-1,2,3,4,5, 6,7,8,9,11,12,13; PEN-92-1,2, 4,5,7; PEN-93-1,5; ALA-91-3,9,12,13, 14,15,16; PER-93-1	Tan, massive to horizontally-laminated, fine to coarse quartz sand with scattered shells. Typically fines upward.	Marine foraminifera <i>Hanzawala concentrica</i> & <i>Asterigina carinata</i> . Also <i>Archaeas angulatus</i> , <i>Parasorites orbitoloides</i> , & <i>Peneroplis proteus</i> . Widely scattered marine mollusks.	0 - 6.01	Marine	Shell - Surficial Sand Sheet	Upper Transgressive Systems Tract	up to 5.5
Facies 5	PEN-91-2,3,4,5,6, 8,9,11,12,13; PEN-92-4; PEN-93-5	Distinct shell bed with many pristine shells. Some quartz granules & pebbles.	Predominantly marine mollusks ( <i>Macrocallista maculata</i> , <i>Ervilia nitens</i> most common), cupularid bryozoans, & coralline red algae. Marine foraminifera (see above).	1.15 - 10.2		Lower Shoreface		<1.0
Erosional Surface 2					Shoreface Ravinement Diastem		Flooding Surface	<0.1
Facies 4	PEN-92-5; ALA-91-9; PER-93-2,3	Dark grey, laminated to bioturbated clay. Few thin (1 to 5 cm) shelly sand layers to thick graded shell-rich zones.	<i>Ammonia-Elphidium- Haynesina</i> foraminifera assemblage. <i>Mulinia- Nuculana-Anadara</i> molluscan assemblage.		Estuarine	Central Basin of Estuary or Open Bay	Lower Transgressive Systems Tract	1-4
Facies 3	PEN-91-11; ALA-91-3,16; PER-93-3;	Tan, bioturbated, silty to fine quartz sand; rip-up clasts.	<i>Ammonia-Elphidium</i> foraminifera assemblage			Bay Beach (Perimeter of Estuary)		0.2 - 2
Facies 2	PEN-91-11; PER-93-3	Thin, matrix-supported shell bed.	Estuarine bivalves ( <i>Chione cancellata</i> ) & <i>Ammonia-Elphidium</i> foraminifera assemblage	6.07 - 10.2		Lower Bay Shoreface or Estuary/Bay Bottom		<0.2
Erosional Surface 1					Bay Ravinement Diastem & Erosional Unconformity		Flooding Surface & Sequence Boundary	<0.1
Facies 1	PEN-91-10; ALA-91-3,16; PER-93-3	Yellowish burnt orange & grey, massive to highly bioturbated, oxidized clayey quartz sand.	Devoid of macro- and microfauna	Pleistocene (> 10.0)	Continental/ Coastal	Soil Horizon masking Strandplain	Highstand and Falling Stage Systems Tracts	?

erosional shoreface retreat, producing the second flooding surface (shoreface ravinement diastem) noted at the bottom of the marine shell bed (*Facies 5*). *Facies 5* and *6* represent the upper transgressive systems tract, which is dominated by open marine environments. Over the past 3,000 years or more, the Gulf of Mexico has experienced a sea-level highstand. Consequently, the modern seafloor represents a third flooding surface (i.e., maximum flooding surface [MFS]) and is the upper boundary of the transgressive systems tract (Table 2).

As the Holocene transgression slowed to a virtual standstill, sediment supply dominated the coastal system, causing the net direction of shoreline movement to reverse and prograde seaward. As such, a majority of the present Alabama/Florida shoreline between the Mobile Bay Entrance and Pensacola Pass is characterized by extensive beach-ridge plains (see Stapor, 1975), representing the beginning of the next highstand systems tract. The east to west littoral drift system provides the sediment source for the development of these beach-ridge plains. Therefore, the highstand systems tract will continue to prograde seaward across the maximum flooding surface, thus forming a downlap surface.

### **Shelf Evolution Model**

A seven-stage shelf evolution model is proposed to explain the morphostratigraphy of the study area (Figures 21 and 22). The model addresses the origins of the distinct marine shell bed and overlying thick sand sheet, as well as the two prominent linear shoals. In this model, the outer shoreline is characterized by a back-stepping barrier beach that most likely consisted of a combination of Holocene barrier islands and eroding Pleistocene headlands. Although barrier-beach deposits are not preserved in the study area, the resulting shelf morphology is related to changes in the migration rate of the barrier shoreline and translation direction of the associated shoreface profile (Figure 21).

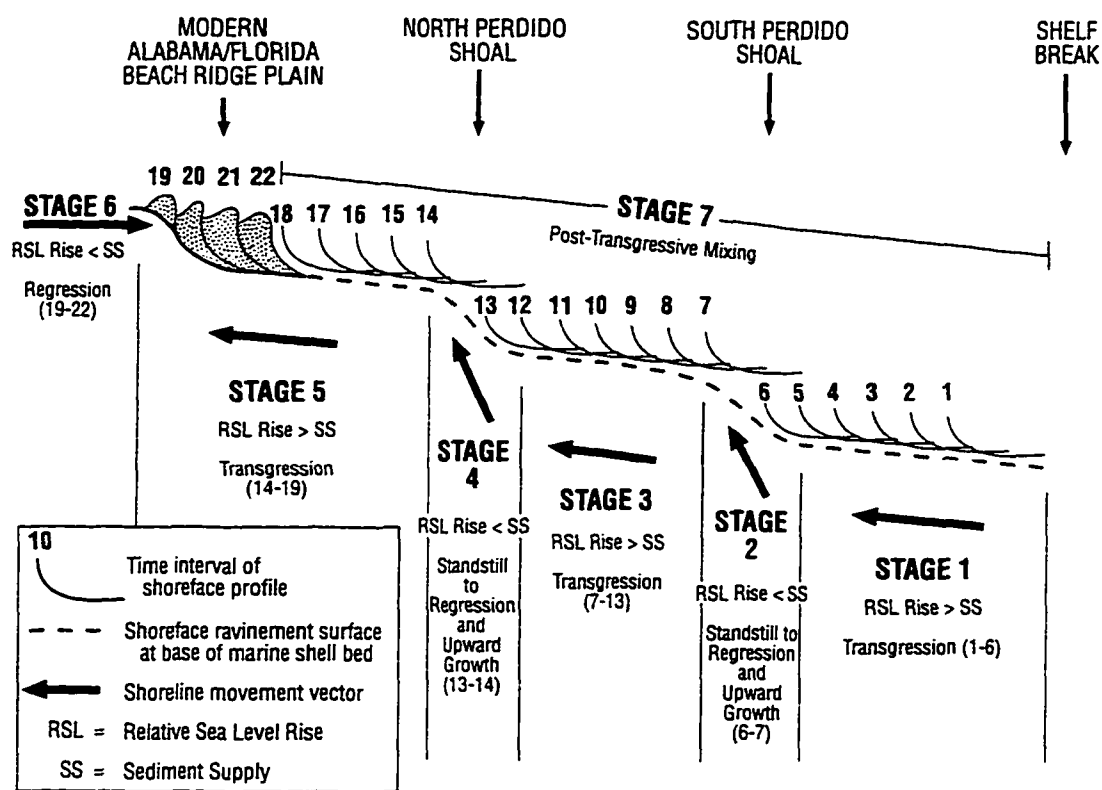


Figure 21. Seven-stage shelf evolution model for the Alabama and northwest Florida shelf that shows the relationship between translation of the shoreface profile in response to the rate of sea level rise and sediment supply. Sea level slowdowns generate escarpments. Shoreface profile locations are sequentially numbered from oldest (#1) to youngest (#22). Vertical exaggeration is approximately 1000x. See Figure 22 for resulting shelf stratigraphy. Parts of this diagram were influenced by Swift et al. (1984).

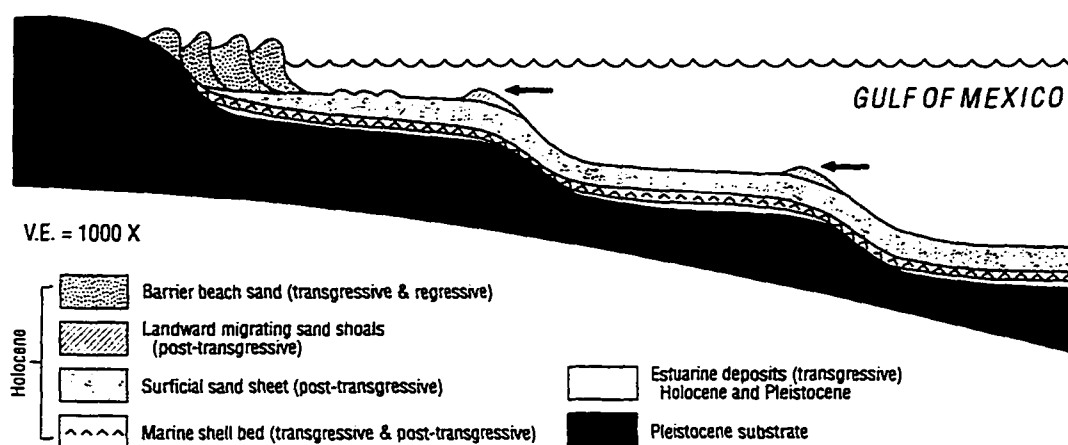


Figure 22. Resulting shelf stratigraphy in response to seven-stage model in Figure 21. Vertical exaggeration is approximately 1000x.

According to Stubblefield et al. (1984), shelf features and deposits can form prior to, during, or subsequent to the passage of the transgressive shoreline. Therefore, timing for the formation of shelf deposits is referred to as either pre-transgression, during transgression, or post-transgression.

During Stage 1, the barrier shoreline experienced rapid transgression (Figure 21; shoreface profiles 1 through 6) in response to continuous rates of relative sea level rise that averaged 0.5 cm/yr (see Bard et al., 1990). The smooth and steep shelf surface seaward of South Perdido Shoal (40 to 75 m water depths) is geomorphic evidence of a continuous rapid rise, with no major slow downs. Stage 1 also includes the extremely rapid spike in sea-level, known as meltwater pulse 1A (Fairbanks, 1989), which occurred about 13,800 yrs. B.P. (Bard et al., 1990, 1996). Sea-level rise rates during meltwater pulse 1A reached 3.7 cm/yr (Bard et al., 1990) and corresponded to the collapse of the European ice sheet (Lindstrom and MacAyeal, 1993).

During Stage 2, an escarpment below South Perdido Shoal formed as the rate of sea-level rise slowed, enabling sediment supply to dominate the coastal system. Sediment was probably supplied from updrift eroding Pleistocene headlands located east of the study area (e.g., Grayton Beach, Florida) and transported westward by the net littoral drift system. In phase 2, excess sediment caused the barrier shoreline to aggrade and possibly prograde (Figure 21; shoreface profiles 6 and 7). Radiocarbon dates from the estuarine shell bed in Pen-91-11 indicate that the South Perdido escarpment formed just prior to 10,200 yrs. B.P. and most likely corresponded to a major ice advance (i.e., mid-deglacial pause) known as the Younger Dryas event (Mörner, 1971; Mangerud et al., 1974; Fairbanks, 1989; Dawson, 1992; Bard et al., 1990, 1996). The Younger Dryas cold episode occurred between 12,700 and 11,700 yrs. B.P. and was characterized by a reduced rate of sea-level rise that averaged 0.8 cm/yr (Bard et al., 1990).

Stage 3 is dominated by relative sea-level rise, which caused the barrier shoreline to experience transgression through erosional shoreface retreat as the shoreface profile translated landward and slightly upward (Figure 21; shoreface profiles 7 through 13). This stage also includes the second rapid rise in relative sea level (2.5 cm/yr), referred to as meltwater pulse 1B (Fairbanks, 1989), and was centered at 11,300 yrs. B.P. (Bard et al., 1990, 1996). Lindstrom and MacAyeal (1993) suggest that this second pulse was related to the collapse of the Laurentide ice sheet in Canada.

The escarpment below North Perdido Shoal formed during Stage 4 (Figures 21 and 22). During this stage, the resultant direction of shoreface profile translation was upward and slightly landward (Figure 21; shoreface profiles 13 and 14) due to: 1) a reduced rate of relative sea-level rise that enabled normal sediment supply to dominate, or 2) an increase in sediment supply delivered to the coast (through longshore sediment transport from the east), keeping pace with a constant sea-level rise rate.

Transgression resumed during Stage 5 as relative sea-level rise dominated sediment supply (Figure 21; shoreface profiles 14 through 19), possibly in response to a third meltwater pulse (MWP-1C) identified by Blanchon and Shaw (1995). In this scenario, sea level rose 20 to 40 cm almost instantaneously circa 8,000 yrs. B.P. when two proglacial lakes, Lakes Agassiz and Ojibway, breached the decaying Laurentide ice sheet causing “superfloods” into the north Atlantic Ocean (Dyke and Prest, 1987; Dawson, 1992; Blanchon and Shaw, 1995). Transgression continued to shoreface profile 19 on Figure 21, which represents the most landward position of the Holocene transgression (maximum flooding surface [MFS]). Shoreface profile 19 also marks the end of the transgressive systems tract and the beginning of the highstand systems tract. Stage 6 began when the direction of net shoreline movement reversed in response to an excess in sediment supply. Stage 6 was dominated by regression without upward profile translation as a result of sea-

level stability over the past 3,000 or more years. However, the similarities between shoreface profile 19 and the shoreface scarps underneath North and South Perdido Shoals indicate a common origin (Figure 21). The shoreface scarps underneath the linear shoals are degraded somewhat because they have been transgressed, whereas the shoreface profile at time interval 19 has not.

Stage 7 involves extensive post-transgressive mixing of the entire marine section (*Facies 5 and 6*) by shelf hydrodynamic processes (i.e., strong cold fronts and tropical cyclones). Post-transgressive mixing of marine sediments is a time-transgressive process and begins immediately after an area has been transgressed. Thus, Stage 7 does not commence only after Stage 6 is complete but occurs during all six stages and possibly is ongoing today (Figure 21).

This model has important ramifications for the genesis of shore-parallel linear shoals in shallow-marine settings. The morphostratigraphy of the shoals is a result of both transgressive and post-transgressive processes. The shoals appear to be underlain by escarpments that were produced during transgression as the rate of sea-level rise slowed (Figures 21 and 22). Escarpments are preserved shoreface profiles cut by wave processes and represent major shoreline positions formed at lower stands of sea level (Dillion and Oldale, 1978). The escarpments do not represent pre-transgressive topography but were cut contemporaneously with transgression into underlying Pleistocene deposits. Consequently, the escarpments exert subsurface control over geomorphic expression (i.e., bathymetry) of the seafloor in the form of linear features (Figure 22). On the other hand, the marine shell bed and overlying sand sheet are transgressive deposits reworked by post-transgressive processes and drape the transgressive topography (i.e., escarpments). Furthermore, the shoals along the top of each escarpment typically have asymmetrical profiles with steeper landward flanks (see Figure 4). This morphology

indicates that the sand sheet was further modified and reworked landward by large-scale bedform migration, thus enhancing the expression of linear sand shoals (i.e., North and South Perdido shoals) when combined with the influence of the underlying escarpments. This post-transgressive, modification process (i.e., large-scale bedform migration) produces the asymmetrical shape dominated by steeper landward-facing flanks (Figures 4 and 22).

Although fiercely debated, most recent models explaining the genesis of shore-parallel linear shoals relate the timing of formation to either during transgression (Rampino and Sanders, 1980, 1982; Stubblefield et al., 1984a,b) or post-transgression (Swift and Moslow, 1982; Swift et al., 1984; Rine et al., 1991). The model presented in this paper, which is based on an extensive shelf data set, incorporates both transgressive and post-transgressive processes. The upper marine section was originally deposited as transgressive shelf deposits that have undergone post-transgressive reworking and mixing. Thus, the linear shoals consist solely of post-transgressive deposits and never contained *in-situ* or degraded barrier-beach deposits, but were influenced by the underlying transgressive topography (escarpments). As such, the model is most similar to the concepts presented by Swift et al. (1984) and documents for the first time (if sampling-related disturbance can be ruled out) the extensive post-transgressive mixing of the entire surficial sand sheet down to the shoreface ravinement diastem.



## CHAPTER 5. SUMMARY AND CONCLUSIONS

Five primary features dominate shelf morphology between Mobile Bay, Alabama, and Pensacola Bay, Florida. Shore-normal lows and shelf-edge lobes represent lowstand fluvial systems comprised of incised river valleys and shelf-edge deltas (1st order). Shelf-break parallel linear shoals and associated lows represent former shoreline positions (2nd order) but not shoreline deposits. The linear shoals occur on interfluves between the antecedent fluvial drainage system. Shore-oblique sand ridges are found superimposed on lower order features throughout the study area, but are most prevalent between 0 and 20 m water depths. The sand ridges form in response to shelf storm flow moving in a westerly direction.

Surficial sediments of the shelf display little variation and are composed of >90% sand, <2.7% mud, and <2% granules. Median grain size for shelf sediments ranges from 0.14 to 0.46 mm or fine to medium sand. Although no offshore textural trend is detected, a distinct size and sorting trend occur in a westerly direction from a moderately sorted, medium-grained quartz sand to a moderately well-sorted, fine-grained quartz sand. The boundary between these two subtle but unique sedimentologic zones is sharp and demarcates, for the first time, the actual contact between the Apalachicola and Mobile sediment subprovinces.

In comparison with shelf sediment, the estuaries are characterized by a much greater range in mean grain size, fluctuating between 0.002 and 0.63 mm or clay and coarse sand. Clayey silt, silty clay, and clay dominate the central portions of the estuaries, whereas sand dominates a narrow zone around the perimeter. Upon continued transgression of the estuarine system, however, the upper portions (i.e., sandy perimeter) of the estuary will be plaind off through erosional shoreface retreat and only the central, stratigraphically lower, finer-grained facies will be preserved. Therefore, the vertical

stratigraphic sequence for the coastal/shelf system should consist predominantly of clay, clayey silt, and/or silty clay overlain by fine to medium sand, based on the distribution of surficial sediment types in the study area (i.e., Walther's Law).

The late-Quaternary shelf stratigraphy is characterized by six lithofacies and two erosional surfaces. These preserved lithofacies and regional surfaces comprise the transgressive systems tract and reflect the stratigraphic signature of the last major rise of eustatic sea level. *Facies 1* is a Pleistocene soil horizon characterized by an oxidized, massive to highly bioturbated, clayey quartz sand. This facies is truncated by a major erosional unconformity and is a result of subaerial exposure during the last sea level fall and the bay ravinement process (first flooding surface) during the subsequent post-glacial rise in sea level. The unconformity represents a Type 1 sequence boundary because the entire shelf in the study area was exposed 18,000 yrs. B.P. The erosional unconformity is overlain by estuarine deposits represented by *Facies 2*, *3*, or *4* (lower transgressive systems tract). *Facies 2* is a thin, matrix-supported shell bed, *Facies 3* is a tan, silty to fine-grained quartz sand with rip-up clasts, and *Facies 4* is a dark grey clay that can include thick, graded, shell-rich zones or very thin shelly quartz sand layers. Both *Facies 3* and *4* are truncated by a second erosional surface that represents a shoreface ravinement diastem (second flooding surface). The diastem is overlain by a graded shell-bed (*Facies 5*) dominated by indigenous, well-preserved marine mollusks that were concentrated at the base of shoreface. As shell content decreases upward, *Facies 5* grades into *Facies 6*, which is a massive to horizontally laminated, fine to coarse quartz sand with open marine foraminifera. *Facies 6* typically fines upward or shows no grain-size trend and represents a shelf sand sheet (MAFLA). Together, *Facies 5* and *6* are up to 5.5 m thick and characterize the upper transgressive systems tract.

Macrofaunal remains typically are concentrated into basal shell beds (*Facies 2* and *5*) that rest on bay and shoreface ravinement diastems. Taxonomic composition and environmental preferences of species permitted the bay and shoreface diastems to be distinguished and correlated. Generally, marine shell beds are clast-supported with a clean quartz sand matrix. Maximum bioclast size is about 5 cm, and some shell beds are normally graded. Additionally, some marine shell beds also contain a relict estuarine component dominated by poorly-preserved *Chione cancellata*. In contrast, estuarine shell beds are supported by a muddy quartz sand or clay matrix, and maximum bioclast size is about 3.5 cm.

Furthermore, when  $^{14}\text{C}$  dates from individual, pristine mollusks were compared to a eustatic sea level curve, a time-transgressive trend emerged for the estuarine shell bed (*Facies 2*) but not for the marine shell bed (*Facies 5*). The marine shell bed is time-averaged due to extensive mixing among older shallow-water species (upper shoreface) concentrated during transgression and young deeper-water species (lower shoreface and shelf) by post-transgressive processes. Hence, the entire marine section (up to 5.5 m) is completely reworked and mixed by post-transgressive processes down to the shoreface ravinement diastem. The depth of mixing demonstrates that the sedimentary regime on this shelf, and possibly others around the world, may be much more dynamic than previously thought (see Culver and Snedden, 1996). Sediment is mobilized during high-energy conditions, carried offshore and alongshore by shelf currents (storm flow), and/or transported onshore via large-scale bedform migration. These sedimentary processes are most active during the passage of strong cold fronts and tropical cyclones (i.e., tropical storms and hurricanes) and are the primary transgressive and post-transgressive processes affecting the shelf surface.

The entire surficial sand sheet (*Facies 6*) consists of post-transgressive deposits, including linear shoals because: 1) foraminiferal and molluscan assemblages are dominated by open, shallow-marine species, and 2) deposits lie above the shoreface ravinement diastem (stratigraphic context). Based on these data, the origin of the linear shoals (South and North Perdido) is related to transgressive and post-transgressive processes. The linear form and orientation of the shoals are dictated by underlying transgressive topography (i.e., escarpments) that was cut into the underlying Pleistocene substrate during slowdowns in the rate ( $<15$  mm/yr) of eustatic sea level rise. Slowdowns in the rate of eustatic sea level rise enabled longshore sediment supply from the east to dominate the coastal system. This excess sediment caused the barrier shoreline to aggrade and possibly prograde. Therefore, South Perdido Shoal formed sometime between glacial melt water pulses 1A and 1B, whereas North Perdido Shoal developed between 1B and 1C. The rate of eustatic sea level rise during meltwater pulses was  $>45$  mm/yr. As the shoreline continued its net landward migration, erosional shoreface retreat produced a trailing surficial sand sheet (syn-transgressive) that draped the transgressive topography (i.e., escarpments) with up to 5.5 m of fine to medium quartz sand. However, the transgressive sand sheet was subsequently reworked completely by post-transgressive processes. Although shelf morphology appears to be similar to modern barrier island geomorphology, the resulting stratigraphy contains no *in-situ* or degraded barrier island deposits. Hence, the morphostratigraphy of the Alabama and northwest Florida shelf is a result of transgressive topography combined with post-transgressive deposits and processes.

Overall, the shallow shelf geology in the study area consists of transgressive deposits with the upper marine section reworked by post-transgressive processes. However, pre-transgressive features (i.e., Pleistocene lowstand fluvial/deltaic systems) are

also present. Therefore, the morphology and geology of the Alabama and northwest Florida shelf are influenced by a combination of pre-transgressive, transgressive, and post-transgressive features (Hypothesis #4).

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## **APPENDIX A. VIBRACORE LOGS**

Each core is labeled with alphanumeric such as ALA-91-2. The first three letters indicate general geographic area, the middle numbers indicate the year collected, and the last numbers represent a sequential numbering system for the cores taken in a particular area:

e.g., ALA-91-2

geographic area - year collected - core number.

The three geographic areas are Alabama (ALA), Pensacola (PEN), and the Perdido Bay or Pass area (PER). The cores were collected in 1991, 1992, and 1993.

The vibracore description sheets are arranged alphabetically by geographic area then chronologically by year collected, and finally sequentially by core number as shown below:

ALA-91-...

ALA-92-...

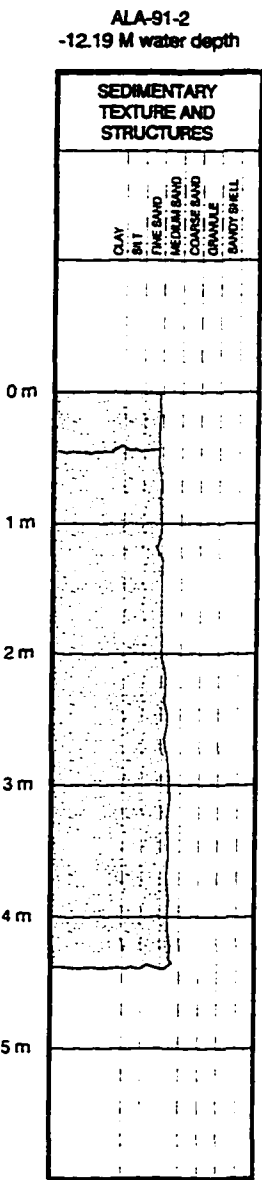
ALA-93-...

PEN-91-...

PEN-92-...

PEN-93-...

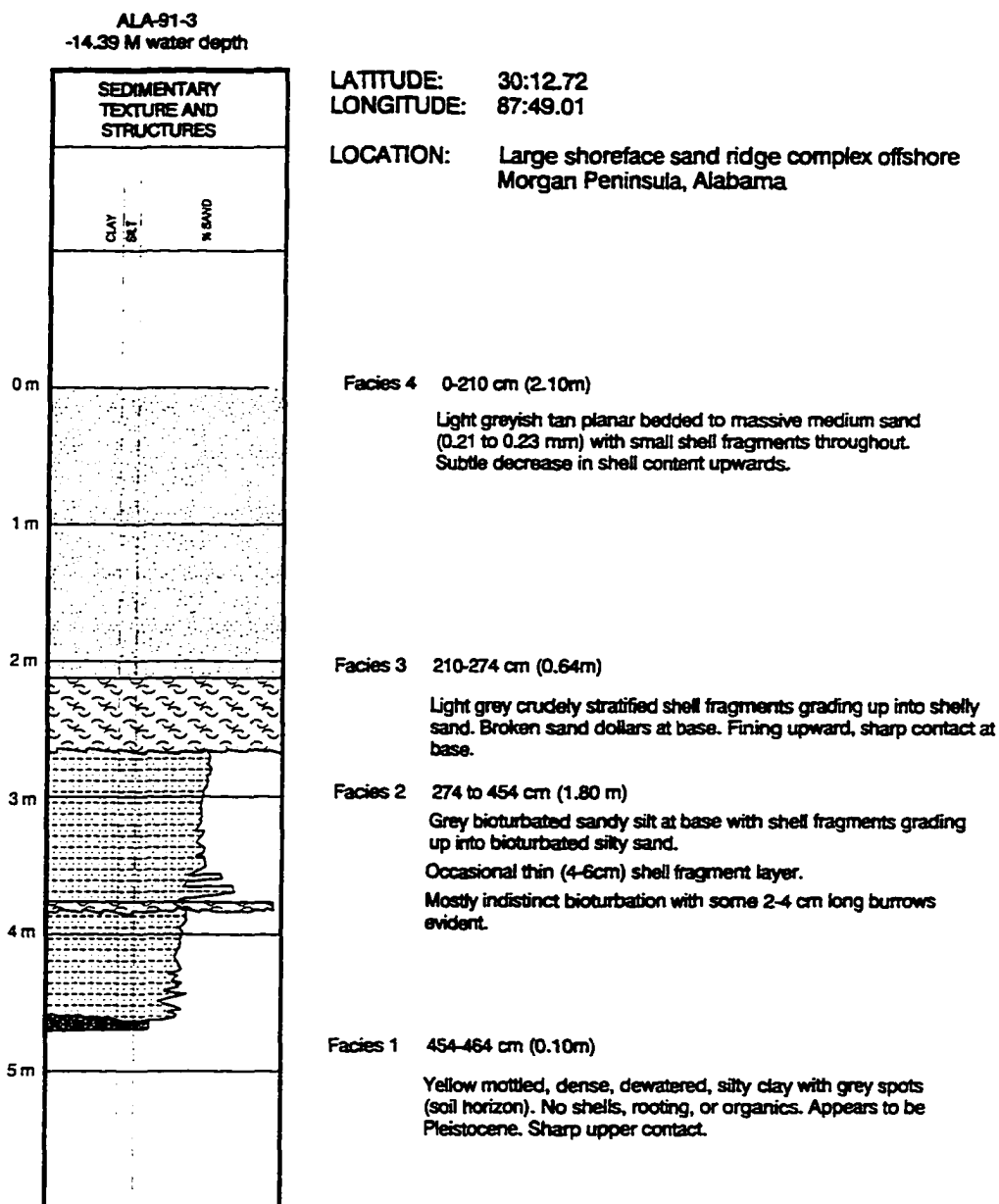
PER-93-...



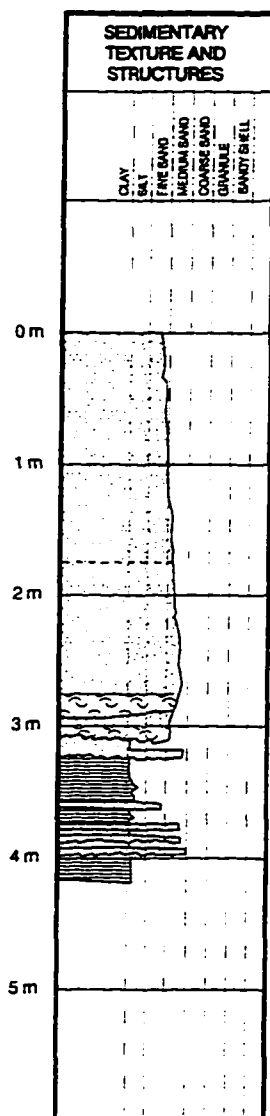
LATITUDE: 30:12.50  
LONGITUDE: 87:52.00

LOCATION: Due south of the eastern side of Mobile Bay  
on the shoreface

- Unit 2 0-42 cm (0.42m)  
Light creamy tan massive fine-grained quartz sand with numerous shell fragments ( < 0.5 cm) throughout. Sand tends to fine slightly upward from 0.26 to 0.19 mm. Approximately 90% quartz sand and 10% mud.
- Unit 1 42-436 cm (3.94m)  
Light brown highly bioturbated fine-grained quartz sand with shell fragments throughout. Bioturbation destroys bedding. Slightly fines upward.



ALA-91-9  
-7.77 M water depth



LATITUDE: 30:14.472  
LONGITUDE: 87:40.30

LOCATION: Alabama shoreface near Gulf Shore, AL

**Facies 2 0-308 cm (3.08m)**

Light greyish brown, massive shelly medium to fine sand that fines upward from 0.27 to 0.19 mm.

**Subfacies b 0-175 cm (1.75m)**

Light greyish brown, massive shelly fine sand.

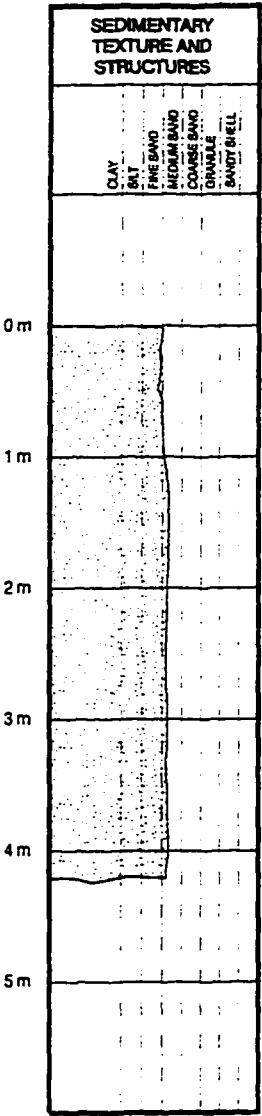
**Subfacies a 175-308 cm (1.33m)**

Light greyish brown, massive shelly medium sand. Shells have no preferred orientation. Many mollusks (bivalves) and some echinoid fragments. Reworked.

**Facies 1 308-413 cm (1.05m)**

Dark grey, horizontally, laminated clay with some distinct burrows and mostly subtle bioturbation. Some very thin (1-5 cm) shelly fine to medium sand layers interlaminated with clay. Some appear to have reverse as well as normal grading.

ALA-91-12  
-16.31 M water depth



LATITUDE: 30:06.79  
LONGITUDE: 87:39.87

LOCATION: Inner to middle continental shelf just west of Perdido Pass, Florida

Unit 1

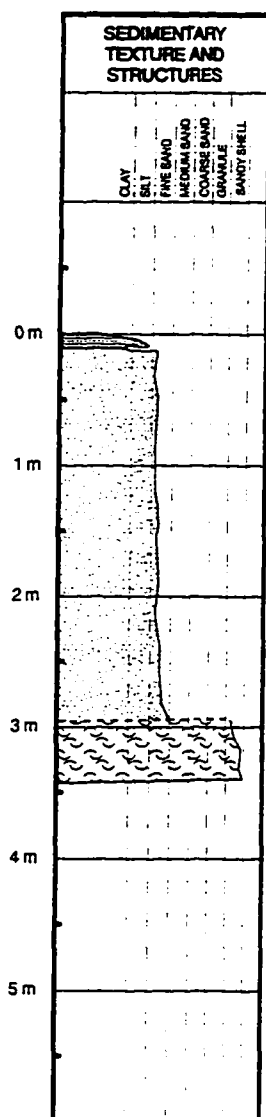
Greyish light tan massive fine quartz sand with shell fragments (<1.0 cm) throughout and few larger echinoid (nearly 6 cm) and bivalve shells as indicated. Fine sand shows no trend and ranges in size from 0.22 to 0.25 mm.

Shell fragment content appears to increase slightly in upper 50 cm.

Some subtle finer grained dark brown burrows found throughout (<2.0 cm long)



ALA-91-13  
-30.78 M water depth



LATITUDE: 29:58.65  
LONGITUDE: 87:39.79

LOCATION: Continental shelf offshore Alabama - Mobile River lowstand area

Unit 3 0-11 cm (0.11 m)

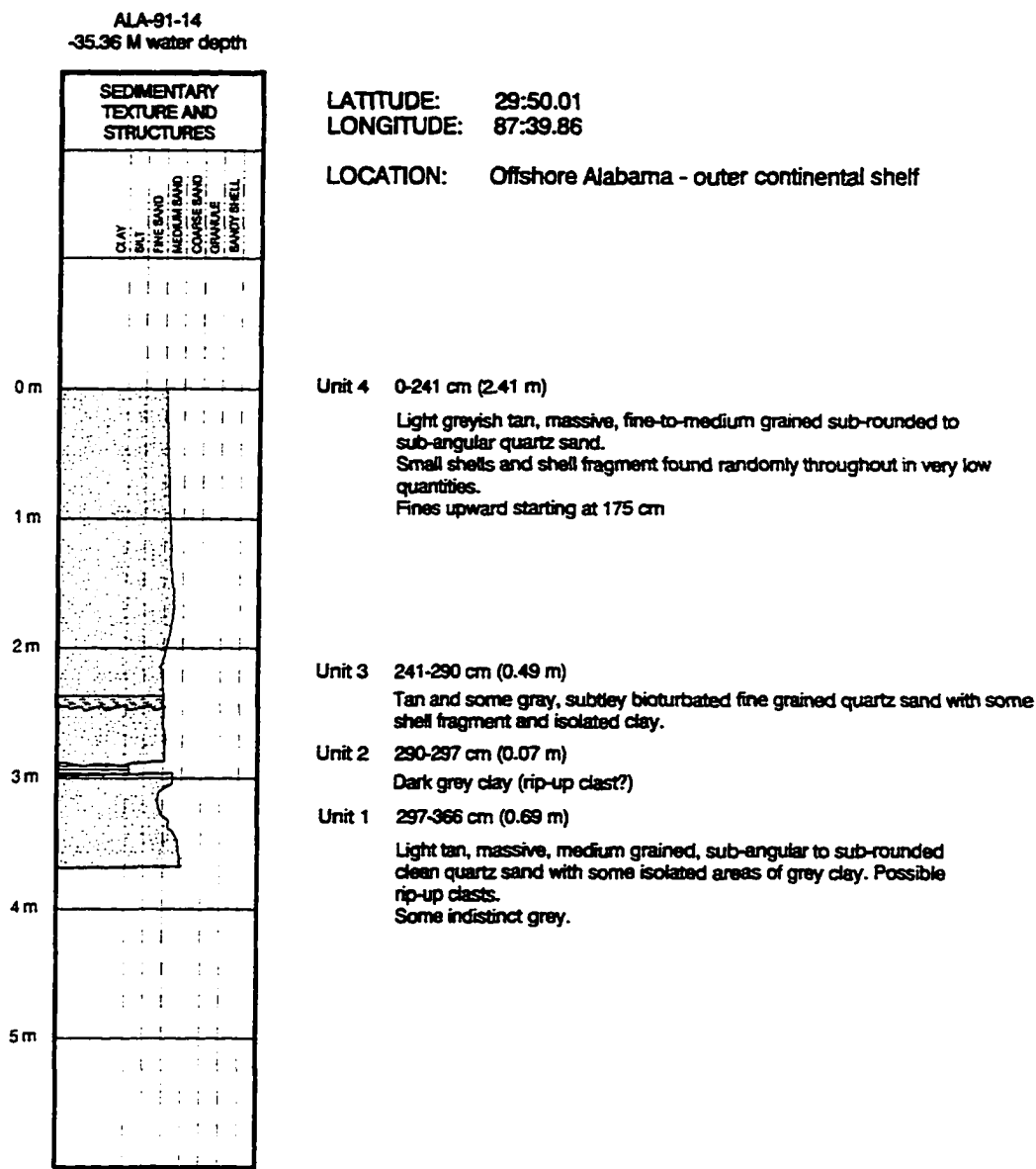
Greyish olive massive fine sand with yellow clay (almost like a drape).

Unit 2 11-295 cm (2.84 m)

Greyish olive, massive fine sand dominated by subrounded to subangular quartz (nearly 95%) grains. Grain size slightly fines upward from 0.20 to 0.14 mm. Sand is finer and darker than sands further to the east. Possible subtle bioturbation in upper 80 cm.

Unit 1 295-340 cm (0.45 m)

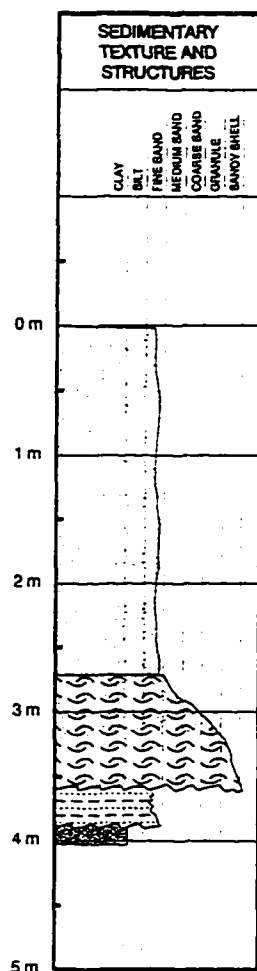
Grey fine sandy (nearly 95% subrounded to subangular quartz grains) shell fragment layer that is graded. Shell fragments at base are 2-5 cm wide and fine upward to about 0.125 mm (fine sand size) at top. Shells include numerous bivalves (pectin, clams, dutch shoe) and few gastropods. All shells are disarticulated and have been transported. Compared to other shell beds to the east, these shell fragments appear to be more reworked with fewer pristine shells. However, shell fragment edges are sharp and not worn.





**ALA-91-16**

35 m water depth



LATITUDE: 29:45.07

LONGITUDE: 87:35.19

LOCATION: Offshore the Alabama / Florida border  
on outer continental shelf**Facies 4** 0-270 cm (2.70m)

Tan massive to planar-laminated silty fine quartz sand with small (1-3 mm) bioclasts scattered throughout. Dominated by *Hanzawaia concentrica* foraminifera.

**Facies 3** 270-358 cm (0.88m)

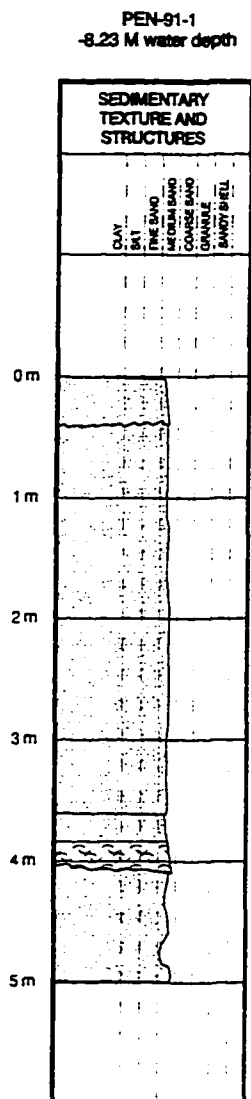
Shell layer at base and fining upward (graded bed) into a tan planar-laminated shelly fine sand. Numerous pristine gastropods and bi-valves.

**Facies 2** 358-385 cm (0.27m)

Tan silty to fine-grained quartz sand with subtle bioturbation throughout that destroys bedding. Well-developed yellowish burnt orange and gray rip-up clasts (3x6 cm). Shell fragments throughout. Dominated by *Ammonia* / *Elphidium* foraminiferal assemblage. Truncated by an erosional unconformity.

**Facies 1** 385-400 cm (0.15m)

Yellowish burnt orange and grey massive to bioturbated dense oxidized clay (Pleistocene). Unit is truncated at top by an erosional unconformity. Appears to be a soil horizon.



LATITUDE: 30:16.63  
LONGITUDE: 87:23.97

LOCATION: Shoreface between Perdido and Pensacola  
Passes, Alabama / Florida

Unit 4 0-32 cm (0.32m)

Creamy tan, massive, shelly medium grained quartz, sand (0.28 mm).  
Shells include echinoid and bivalve fragments & large seagrass forams.

Unit 3 32-362 cm (3.30m)

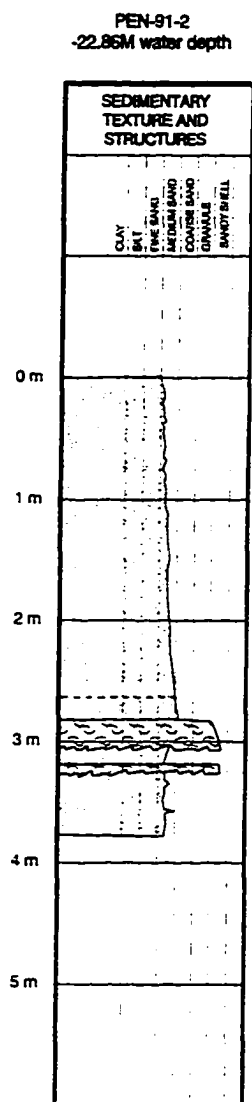
Creamy tan, massive, medium grained quartz sand w/ small shell  
fragments found randomly throughout. Medium sand fines upward  
from 0.36 to 0.30 mm.

Unit 2 362-412 cm (0.50)

Creamy tan poorly stratified shelly quartz, sand that fines  
upward (graded?)

Unit 1 412 - 503 cm (0.91m)

Creamy tan, massive medium grained quartz, sand (0.29 to  
0.35 mm) with fine shell bits found randomly throughout  
with 3 cm long gastropod (*Olivella*) and 1 cm wide bivalve  
(*pectin*). Some fine grained medium and  
burrows in lower portion.



LATITUDE: 30:12.48  
LONGITUDE: 87:19.48

LOCATION: Middle continental shelf offshore Perdido  
Key, Florida

Unit 2 0-308 cm (3.08m)

Facies a 0-270 cm (2.7m)

Light tannish grey, massive poorly sorted, medium-grained quartz, sand w/ small shell fragments throughout, some coarse-grained quartz sand. Fines upward slightly from 0.43 to 0.29mm. Shell fragments include gastropods, bi-valves (mulina), and large forams. Gradational base.

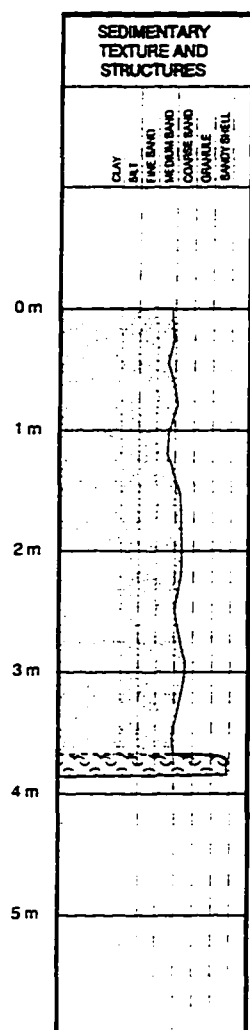
Facies b 270-308 cm (0.38m)

Light tannish grey, well graded medium to coarse-grained quartz sandy shell layer. Shell fragments reworked and chalky: echinoids bi-valves, and some granule size quartz grains. Sharp erosional base.

Unit 1 308-382 cm (0.74m)

Grayish tan massive to horizontally, laminated to bioturbated clayey, silty, medium grained quartz, sand with shell fragments throughout and some thin well developed shell layers. Shell fragments include some large echinoids (5x4cm) and small (2cm) bi-valves.

PEN-91-3  
-18.60M water depth



LATITUDE: 30:10.93  
LONGITUDE: 87:17.65

LOCATION: Inner to middle shelf due south of  
Pensacola Pass, Florida

**Unit 2 0-370 cm (3.7m)**

Light grey, massive, shelly medium to coarse quartz sand with some fairly large (2 to 7 cm) echinoderm fragments randomly dispersed throughout. Sand fines slightly upward from 0.53 to 0.46 mm.

Also some sub-angular to sub-rounded granule size quartz fragments found throughout but tend to fine upward especially in top 1 m.

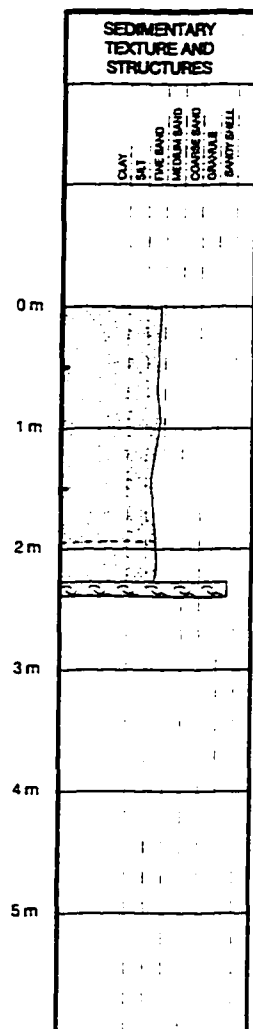
Fine shell bits throughout

**Unit 1 370-389 cm (0.19m)**

Tannish light grey, crudely stratified, sandy (medium grained) shell fragment layer that appears to be graded (?) with some subrounded granule-size quartz fragment.

Mostly angular shell fragments consist of bivalves, echinoderms, and some gastropods. Size ranges from <0.5 to 3 cm. Shells tend to be angular fragments but at least 30 to 50 % have evidence of bio-erosion & longer residence time on exposed bottom. Definitely not in-situ with possible farther transport residence time compared to other cores.

PEN-91-4  
-27.74M water depth



LATITUDE: 30:08.13  
LONGITUDE: 87:21.61

LOCATION: Middle to outer continental shelf in  
antecedent low offshore Florida Panhandle

Unit 3 0-191 cm (1.91)

Olive yellowish grey massive fine-grained sand with very fine shell bits throughout. Coarsens upward from 0.14 to 0.22 mm.

Unit 2 191-226 cm (0.26m)

Olive yellowish grey shelly fine-grained sand (0.13 mm) that fines upward. Upper and lower contact gradational. All shell fragments < 0.5 cm

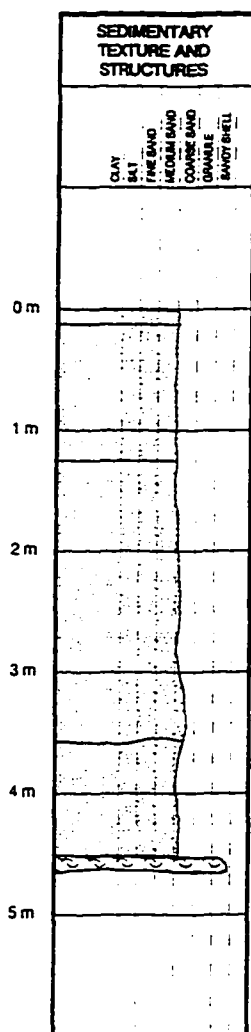
Unit 1 226-238 cm (0.12m)

Olive yellowish grey fine grained sandy shell layer that fines upwards. Shell fragments are generally < 0.5 cm with a couple of fragments up to 1 cm. Shell fragments consist mainly of small bivalves & gastropods. One well preserved red calico clam (pectin).

Unit 1 and 2 are graded and could be considered 1 continuous unit.



PEN-91-5  
-20.73M water depth



LATITUDE: 29:51.31  
LONGITUDE: 87:29.39

LOCATION: Large sand ridge on Florida Panhandle shelf  
offshore Pensacola

Unit 6 0-10 cm (0.1m)

Massive, medium to coarse sandy (quartz) fine shell layer with large (2 to 5 cm long), reworked echinoderm fragments.

Unit 5 10-122 cm (1.22m)

Creamy tan massive, shelly medium to coarse quartz sand with large (2 to 5 cm long), reworked echinoderm fragments (sand dollars) and pelecypods (calico scallops and clam fragments).

Unit 4 122-300 cm (1.78m)

Creamy tan, massive, medium to coarse quartz sand with small (<0.5 cm) shell fragments throughout (mainly pelecypod fragments). Some random heavy minerals (<3%). Some jingle and coquina/clam shells. Also, some small (<0.5cm) coral fragments? No echinoderm fragments.

Unit 3 300-357 cm (0.57m)

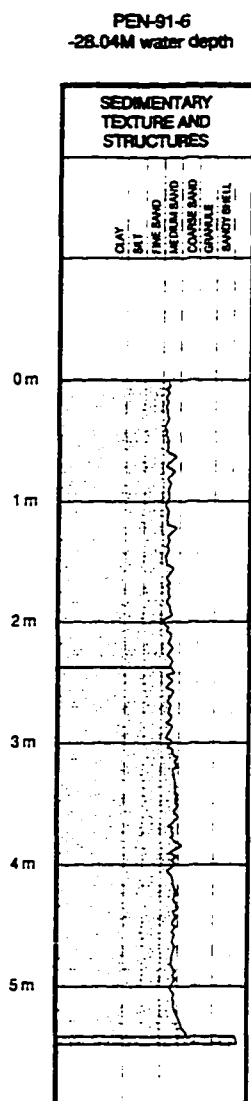
Massive shelly medium to coarse quartz sand. Shells are smaller and consist mainly of fragments in contrast to the larger whole shells below shells dominated by pelecypods (<1 cm wide).

Unit 2 357-450 cm (1.05m)

Crudely stratified shelly coarse quartz sand shells consist of broken calico scallops and other clam fragments. Sharp edges, but obviously transported one broken and reworked lettered olive. Shell size ranges from 5 to 6 cm.

Unit 1 450-462 cm (0.12m)

Unstratified creamy tan sandy shell layer shells consists on shallow water species of clams, scallops, lettered olives, jingles, and oyster? Fragments, whole and broken shells (sharp edges) but definitely transported. Lettered olive shell has been drilled and slightly bleached. None in growth position. Shell size fines upward (graded).



**LATITUDE:** 30:08.53  
**LONGITUDE:** 87:15.11

**LOCATION:** Mid shelf off the Pensacola area, Florida

**Unit 1 0-240 cm (2.4m)**

Tan massive shelly medium grained quartz sand (angular and poorly sorted)  
Small shell fragment (1-5 mm) found throughout (angular shell bits)  
Barnacles found at 51 and 59 cm.

**Unit 3 240-350 cm (1.10 m)**

Tannish grey silty shelly medium grained quartz sand with large shell fragments (1-4.5 cm wide) dominated by pelecypods.

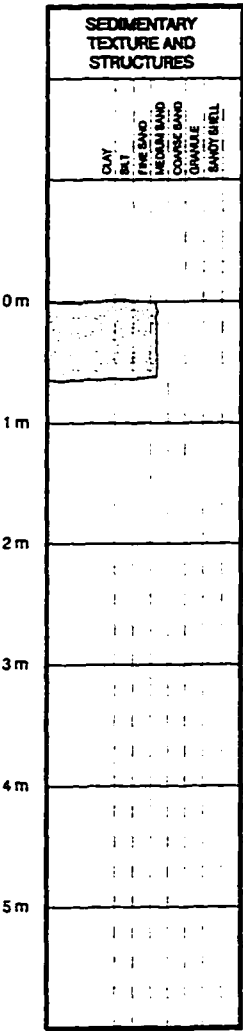
**Unit 2 350-544 cm (1.94 m)**

Tannish grey massive silty shelly coarse to medium grained quartz sand. Small shell fragments (1-5 mm) are found throughout  
Large muddy sand filled burrow between 522 and 534; also at 430 cm. Subtle bioturbation found throughout

**Unit 1 544-548 cm (0.04 m)**

Tannish grey sandy shell fragment layer shells broken pelecypods and gastropods; some of the pelecypods have detailed shell ornamentation indicating little transport.

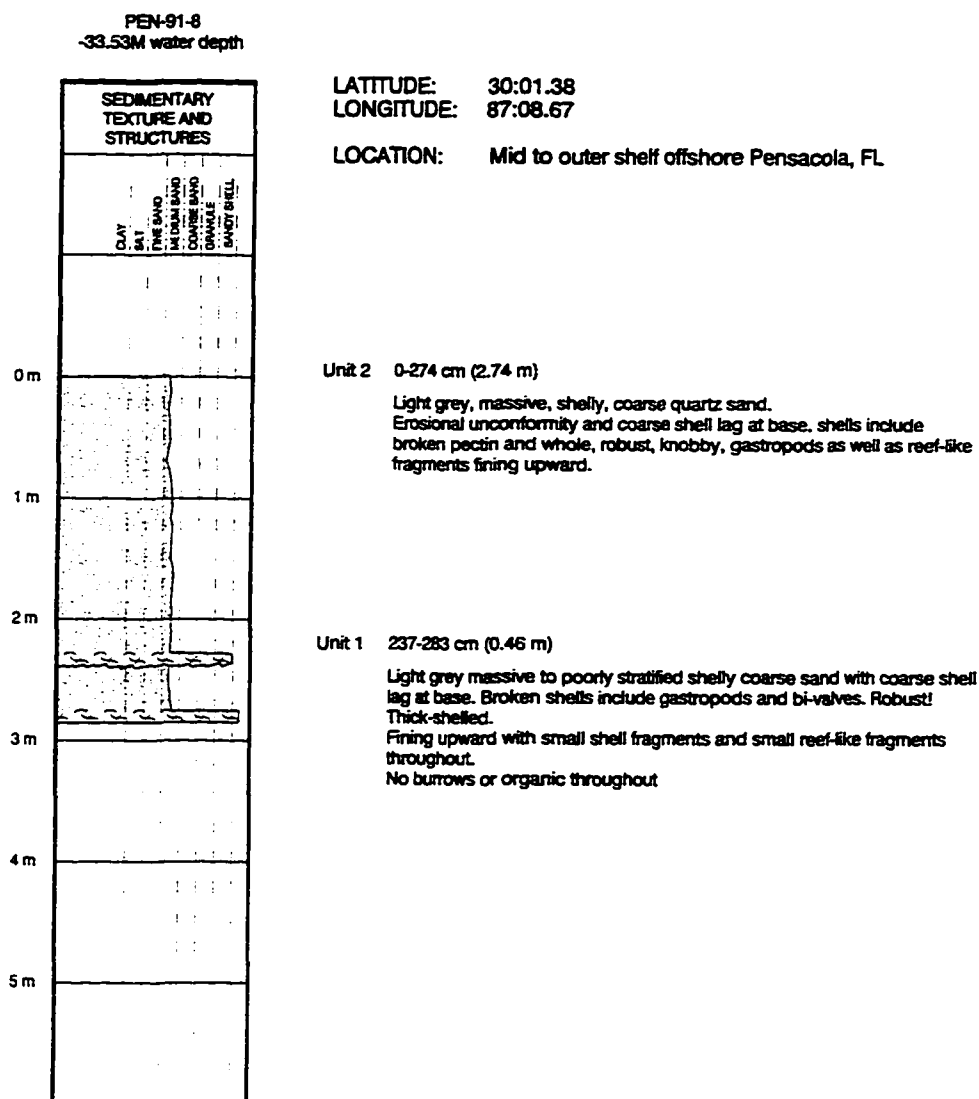
PEN-91-7  
-25.91M water depth

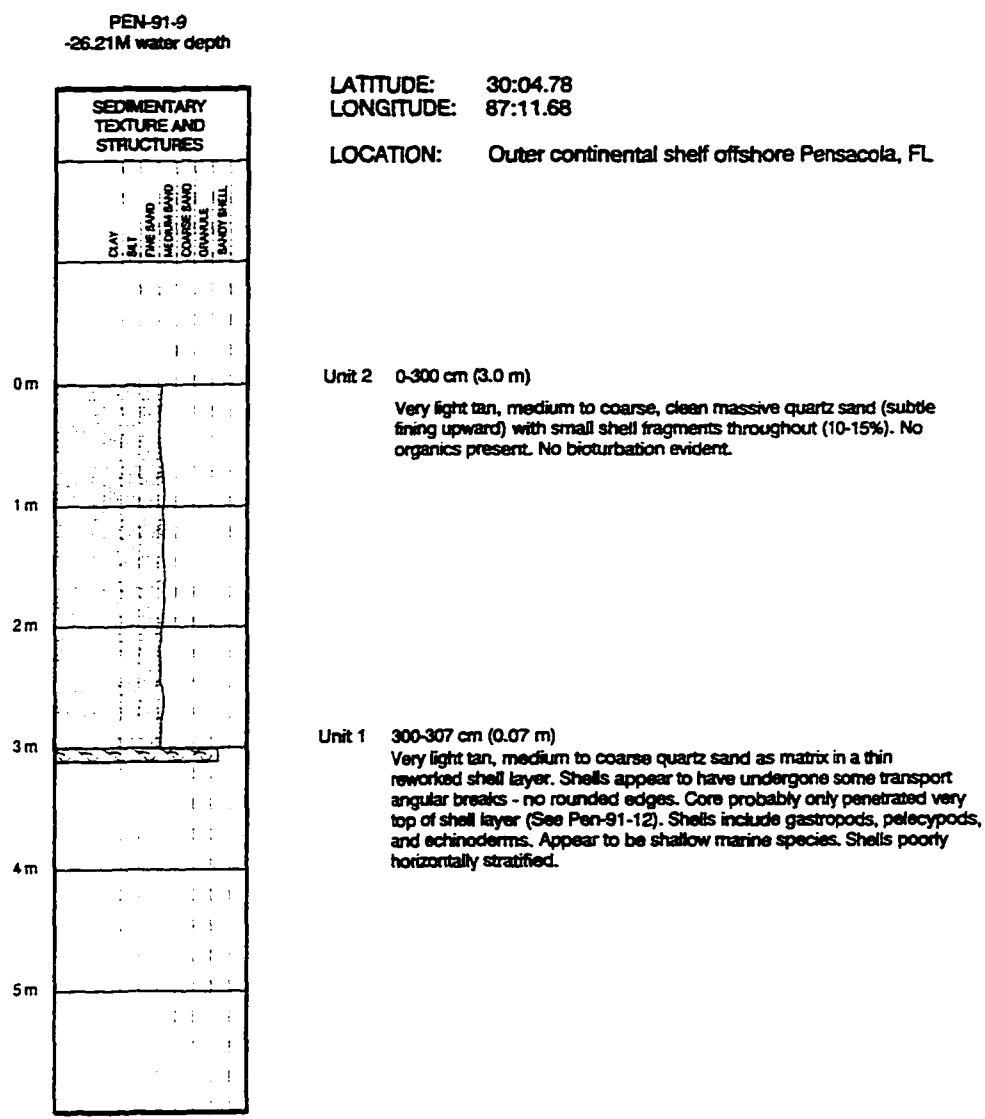


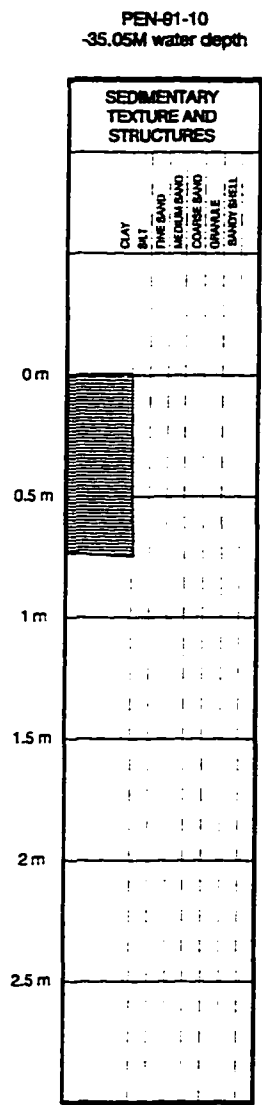
LATITUDE: 30:07.76  
LONGITUDE: 87:05.20

LOCATION: Due south of Pensacola Bay - middle to outer  
continental shelf

Unit 1 0-31 cm (0.31 m)  
Creamy tan massive medium grained quartz sand with small algal  
fragments throughout  
No bedding apparent appears massive  
Small shell fragments throughout.





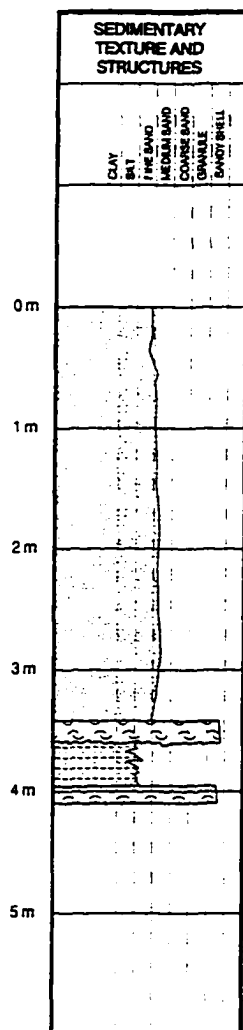


LATITUDE: 30:02.15  
LONGITUDE: 87:14.07

LOCATION: Mid to outer shelf offshore Pensacola Pass, Florida  
in antecedent low

- Unit 3 0-23 cm (0.23 m)  
Dark gray horizontally laminated to bioturbated organic poor clay with some large (1-2 cm wide) sand filled burrows. Some wood clumks but all detrital.
- Unit 2 23-46 cm (0.23 m)  
Light gray horizontally laminated organic poor (<35%) clay with small bits of detrital organic fragments. No in-situ rooting. 3-4 sand filled burrows.
- Unit 1 46-73 cm (0.27 m)  
Blackish dark gray laminated to massive to subtly bioturbated organic-rich clay with detrital wood fragments. Organic content is organic rich (35-70%) in lower 23 cm and then decrease upward to organic poor clay (<35%). Appears to be no in-situ vertical rooting!

PEN-91-11  
-27.74M water depth



LATITUDE: 29:57.76  
LONGITUDE: 87:20.20

LOCATION: Outer shore parallel shoal - outer continental shelf offshore Pensacola Pass, Florida

Unit 4 0-340 cm (3.40 m)

Creamy light tan, massive to laminated, fine to medium grained quartz sand with small shell fragments throughout but upward. Large forams (seagrass) archaia compressus.

Unit 3 340-358 cm (0.18 m)

Creamy light tan crudely stratified. Shell bed that is mainly matrix-supported (dominated by pelecypods and gastropods - some pristine) - 2 to 6 cm long sharp edges - limited transport.

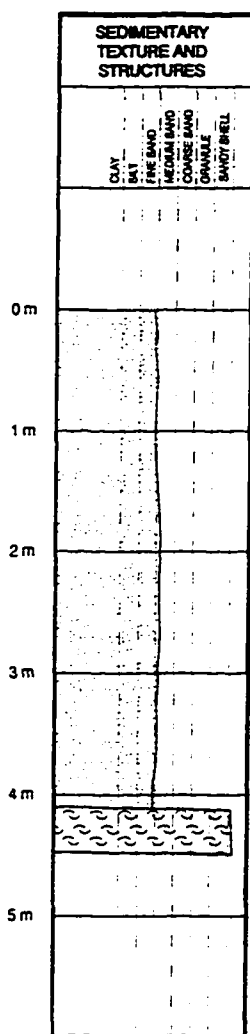
Unit 2 358 - 392 cm (0.34m)

Greyish dark brown bioturbated clayey silty quartz sand with small shell fragments. 2 cm wide burrows laminated at top.

Unit 1 392-407 cm (0.15m)

Matrix-supported shell bed. Matrix is as clayey silty quartz sand. Shells are all bivalves (similar to Per-93-3) with intricate ornamentation. Shells tend to have sharp edges indicating limited transport.

PEN-91-12  
-28.96M water depth



LATITUDE: 29:54.87

LONGITUDE: 87:24.25

LOCATION: Outer continental shelf off Pensacola, Florida

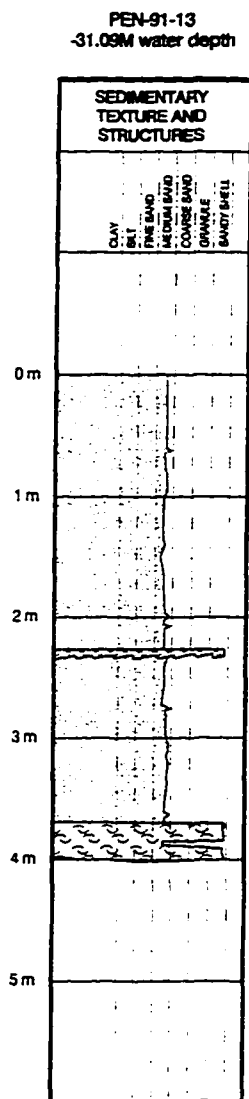
**Unit 2 0-410 cm (4.10m)**

Creamy tan, massive to horizontal laminated fine to medium, grained quartz sand with small (<3mm) shell fragments throughout. Occasionally larger (1-2cm) shell fragment (e.g., echinoderm sand dollar) at 48, 77, and 152 cm. Shell content decreases slightly upward. No organics, 100% sand.

**Unit 1 410-447 cm (0.37m)**

Poorly horizontal stratified shells and shell fragments (gastropods, pelecypods, echinoderms) ranging in size from 0.5 to 6cm with a creamy tan medium grain quartz sand as a matrix. A majority of the shells indicate evidence of transport - broken and reworked edges but edges tend to be angular. However, some gastropods are pristine with no evidence of transport; 80-85% shell and 15-20% sand. Graded bed. Shell size fining upward.





LATITUDE: 29:51.31  
LONGITUDE: 87:29.39

LOCATION: Mid to outer shelf off Perdido Key, FL (eastern flank of Mobile River lowstand)

Unit 2 0-369 cm (3.69m)

Light tan, massive, medium quartz sand with shell fragments throughout, shell fragments consist mainly of gastropods and pelecypods. Shells fine and disappear upward.

Sub-unit 2a 0-369 cm except at about 230 cm  
Same as above.

Sub-unit 2b 225-230 cm  
Possible erosional unconformity.  
5 cm thick shell fragment zone dominated by pelecypods (clams)

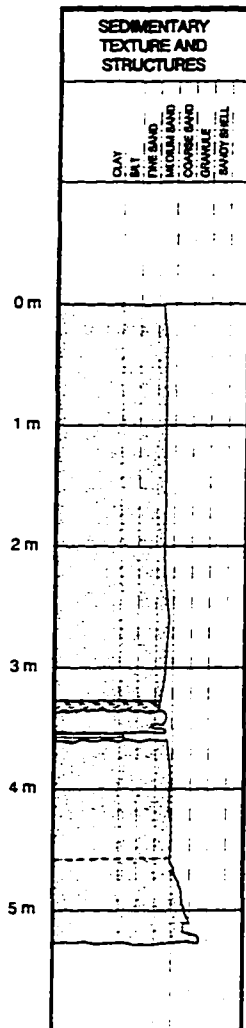
Unit 1 369-397 cm (0.28m)

Crudely stratified sandy shell layer.

Sub-unit 1a 369-382 cm  
Crudely stratified sandy (quartz) shell layer. Whole shells and fragments consist of pelecypods (calico clam [*macrocallista maculata* which is found in sand in water depths 2-20 m], *Disk dosinia* (clam) found in sand in lower intertidal zone rarely to water 3 m deep, *Pennsylvania lucina* (sand 0.6-76 m deep)) and gastropods common American anger ([sand from low-tide to 30m deep], *Crenulata pyram* [on sand from low-tide to 15m]).

Sub-unit 1b 382-397 cm  
Massive sandy shell layer dominated by gastropods (lettered olive, common American auger, common Nutmeg [low-tide to 15 m]) and pelecypods (dutch shoe, *Tellin*).

PEN-82-1  
-26.52M water depth



LATITUDE: 30:13.23  
LONGITUDE: 87:07.88

LOCATION: Continental shelf south of Pensacola Bay, Florida

**Facies 2 0-460 cm (4.60m)**

Light greyish tan massive to planar laminated medium quartz sand with small (<5mm) shell bits found randomly throughout. X-rays show virtually no bioturbation and possibly small (<2mm) Pyrite nodules? Slight shell concentration @ 335 cm (bivalves - mainly pectin), some pristine and some highly reworked.

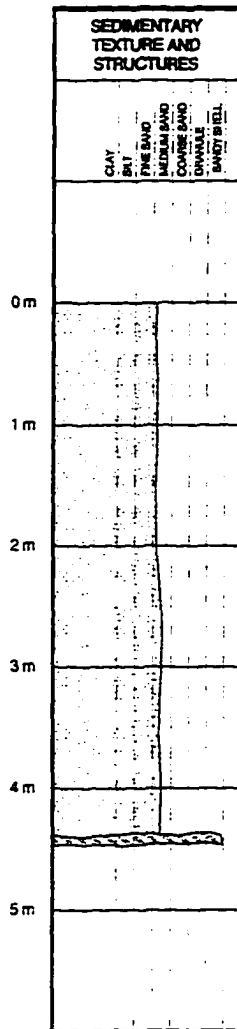
**Subfacies a 339-363 cm (0.24m)**

Dark brown silty clay layer (about 5 cm thick) and possibly a rip-up clast of the same material.

**Facies 1 460 - 530 cm (0.7m)**

Dark tan to tan graded shelly coarse to medium quartz sand with some quartz granules and pebbles. One whole bi-valve @509 cm. Other shell fragments (clams) @496 cm quartz pebbles up to 1.5 cm. Possibly large rip-up clast (10x4 cm) found @520 cm. Consist of darker brown silty fine to medium sand with some clay.

PEN-92-2  
-28.35M water depth



LATITUDE: 30:06.74  
LONGITUDE: 87:13.47

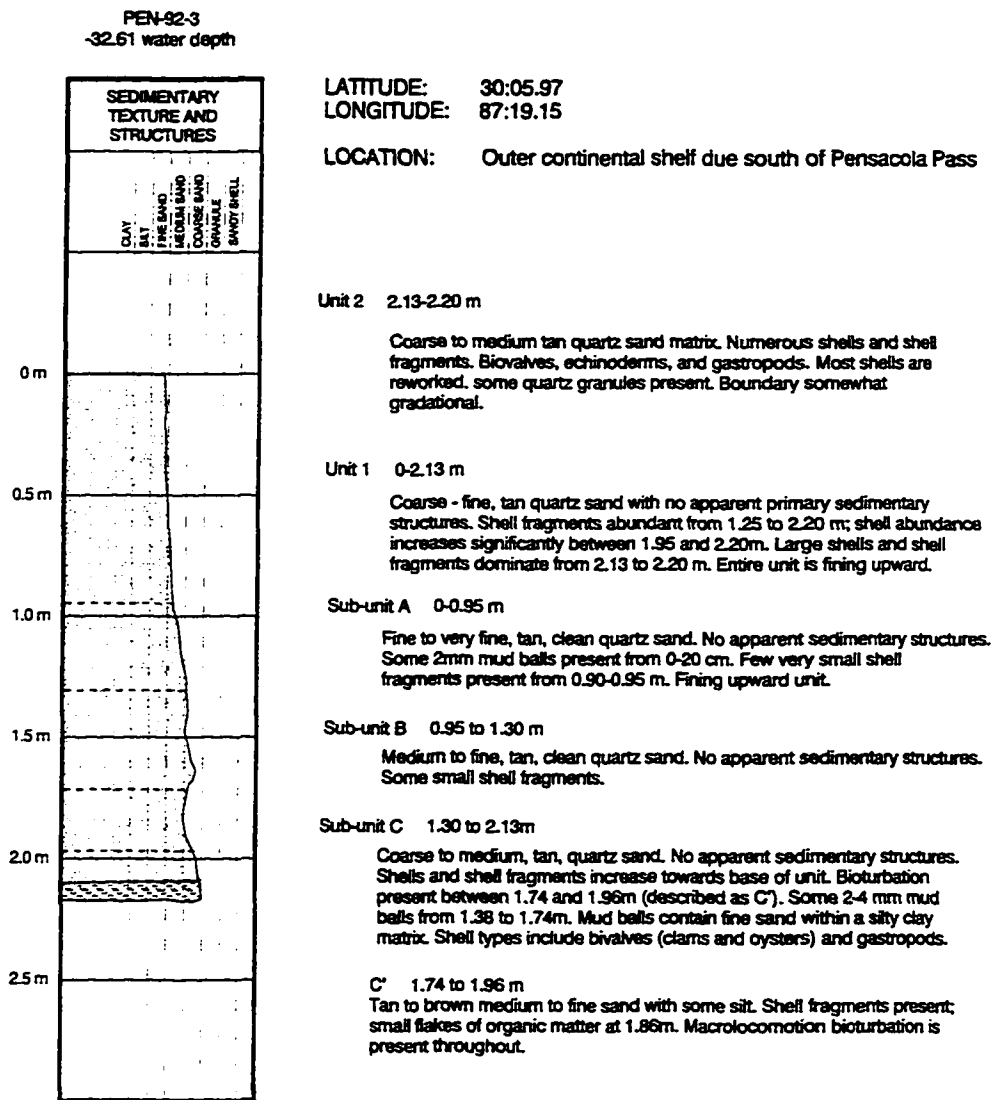
LOCATION: Continental shelf offshore Pensacola, Florida

**Unit 2 0-443 cm (4.43m)**

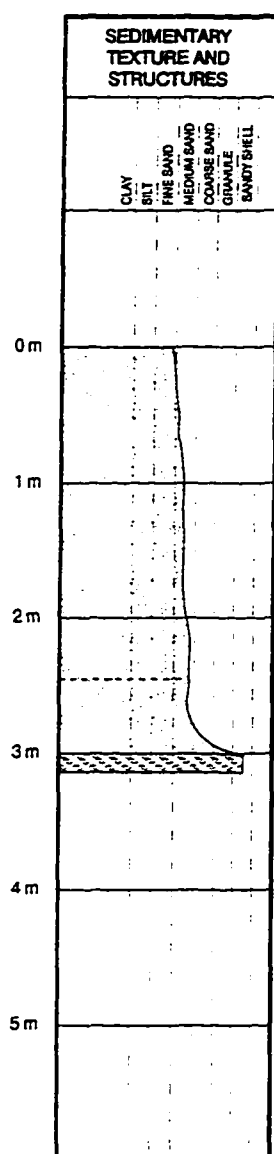
Light greyish cream, massive medium quartz sand with small (<0.5 cm) shell fragments and bits scattered randomly throughout Pecten shells at 265 cm. Quartz grains (about 95-98%) are sub-rounded to sub-angular. Fairly clean.

**Unit 1 443 to 449 cm (0.06m)**

Shell fragments layer in a medium quartz sand matrix. Shells include gastropods (*Oliva sayana* (?) fragment), biovalves, and possibly a well reworked oyster shell (?).



PEN-92-4  
-29.26M water depth



LATITUDE: 30:02.34  
LONGITUDE: 87:25.10

LOCATION: Outer continental shelf offshore Florida Panhandle  
between Perdido and Pensacola Passes, Alabama /  
Florida

Unit 2 0-246 cm (2.46m)

Light greyish tan massive medium grained, sub-rounded to sub-angular  
quartz. sand with small shell bits throughout. Pecten shell @108 cm.

Unit 1 246-311 cm (0.65m)

Graded bed.

Facies a (246-300cm) 0.54m

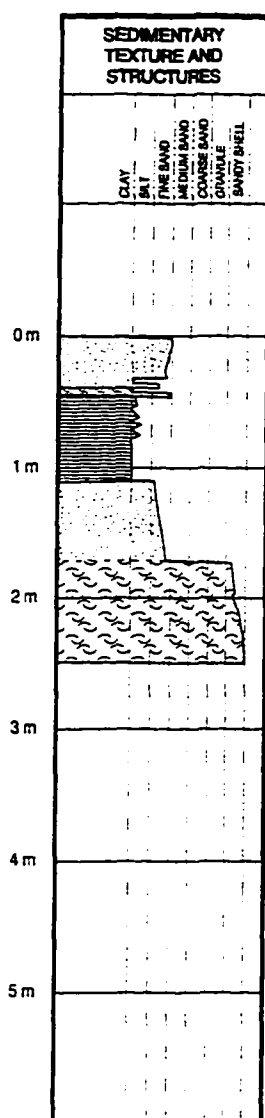
Light greyish tan massive shelly medium to coarse quartz sand that fines  
upward.

Shells consist of reworked bi-valves with sharp edges.

Facies b (300-311cm) 0.11m

Reworked shell fragment layer with a medium to coarse quartz sand matrix.  
Shells range in size from 1 to 4 cm. Some shells have angular edges and are  
fresh whereas others are well worn and bored (longer residence time).

PEN-92-5  
-23.47M water depth



LATITUDE: 30:08.54  
LONGITUDE: 87:33.32

LOCATION: Inner continental shelf due south of Perdido Key Pass, Florida

**Unit 4 0-45cm (0.45m)**

Tan fine quartz sand (0.14mm) with shell fragments which decrease upward. Interlaminated clay and shelly silty fine sand layers in lower portion with erosional bases.

**Unit 3 45-107 cm (0.52m)**

Dark grey horizontally laminated clay with some silty sand stringers with shell bits.

**Unit 2 107-170 cm (0.63m)**

Tan massive silty fine sand with small pieces of shell fragments. Fines upward.

**Unit 1 170-248 cm (0.78m)**

Shell beds that is possibly graded especially at top, average shell size is approximately 0.5cm. Both whole shells and fragments. Bivalves dominate with some gastropods. Shells are not in-situ; limited transport. All is holocene. Shell fragments contain angular edges - little to no rounding. Shells are in a muddy fine sand matrix.

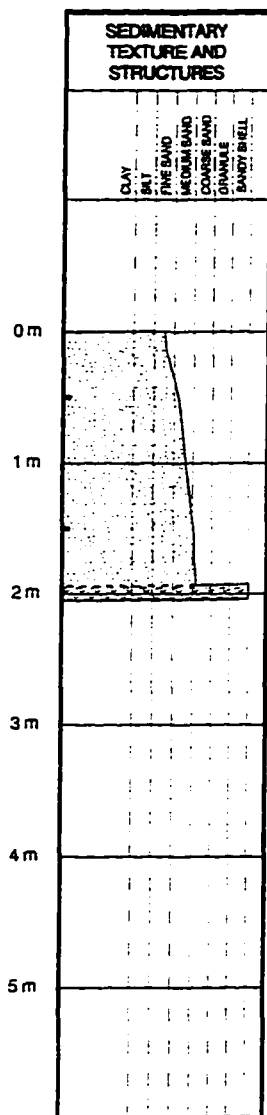
**Facies 2 170-206 cm (0.36 m)**

Graded shell bed well defined

**Facies b 207-248 cm (0.41 m)**

Stratification is poorly defined to massive with shell and muddy fine sand mixed together. Shells tend to be slightly larger than Facies A.

PEN-92-6  
-17.07M water depth



LATITUDE: 30:12.46  
LONGITUDE: 87:27.38

LOCATION: Inner continental shelf due south of Perdido Bay, Florida

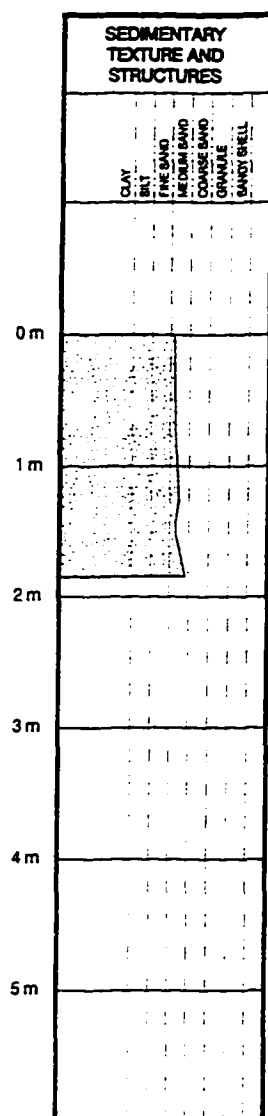
Unit 2 0-297 cm (2.97 m)

Greyish tan massive quartz fine-to-medium grained sand with small shell bits throughout but decrease in content and size upwards. Range in size from less than 1mm to 4mm. Unit fines upwards from 0.34 to 0.16 mm.

Unit 1 297-205 cm (0.08m)

Tannish light grey unstratified sandy shell layer with some whole pristine shells such as Lettered olive with intact top sharp point. Limited transport. Not in-situ. Some echinoderm and bivalve fragments. Shells range in size from 2mm to 4cm. Echinoderm fragments are the largest. Contact between sandy shell layer and unit above appears gradational.

PEN-92-7  
-6.10M water depth



LATITUDE: 30:16.18

LONGITUDE: 87:31.91

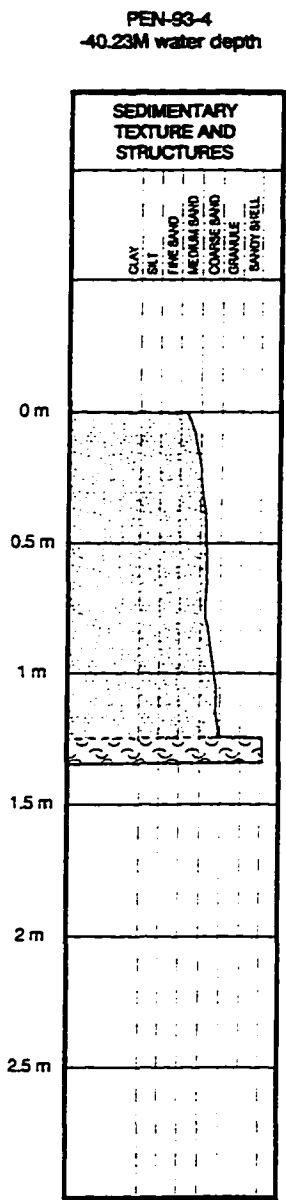
LOCATION: Shoreface east of Perdido Pass, Florida

**Unit 1 0-185 cm (1.85m)**

Tan massive, medium quartz sand sub-rounded to sub-angular with small shell fragments throughout.  
Grain size fairly consistent (0.27 mm) with only a slight coarsening towards the bottom (0.32 mm).

Appears as though slight increase in shell content at base and upper 25 cm.  
Bioturbation is evident in the upper 70 cm. Dark brown circular mud (less than 0.5 cm)





LATITUDE: 30:02.87  
LONGITUDE: 87:05.32

LOCATION: Outer continental shelf due south of Pensacola Bay, Florida

Unit 2 0-127 cm (1.27 m)

Sub-facies a 0-10 cm (0.1m)

Dark greenish grey muddy fine sand, massive with very small shell and carbonate fragments that fines upward.

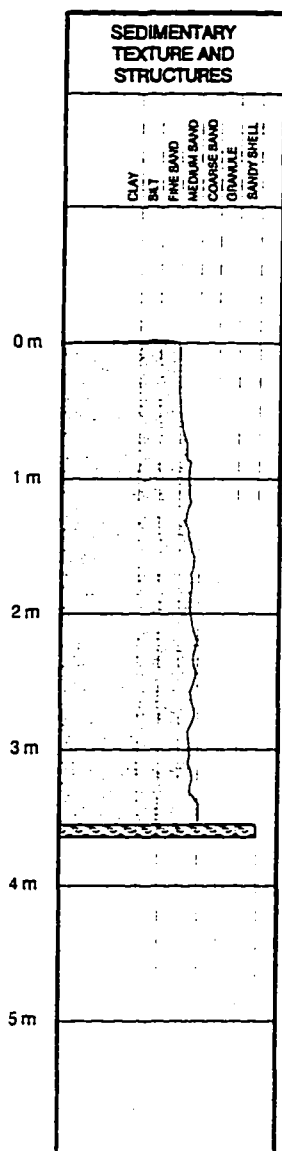
Sub-facies b 10-127 cm (1.17m)

Grey massive fining upward medium to coarse quartz sand with very small shell and carbonate fragments (mainly bi-valves)  
Strong odor from organic degradation?

Unit 1 127-135 cm (0.08m)

Reworked shell bed with whole pristine and well reworked shell fragments with bore holes and encrustations (long residence time) in a coarse quartz sand / carbonate fragment matrix. Also carbonate nodules (0.5 to 1 cm). Shell fragments range in size from 0.25 to 7 cm. Shells include gastropods (*Oliva sayanna*, turret needle). Found large quartz granules (up to 1 cm in diameter), possibly salt crystals.

PEN-93-5  
-9.45M water depth



LATITUDE: 30:17.47  
LONGITUDE: 87:17.73

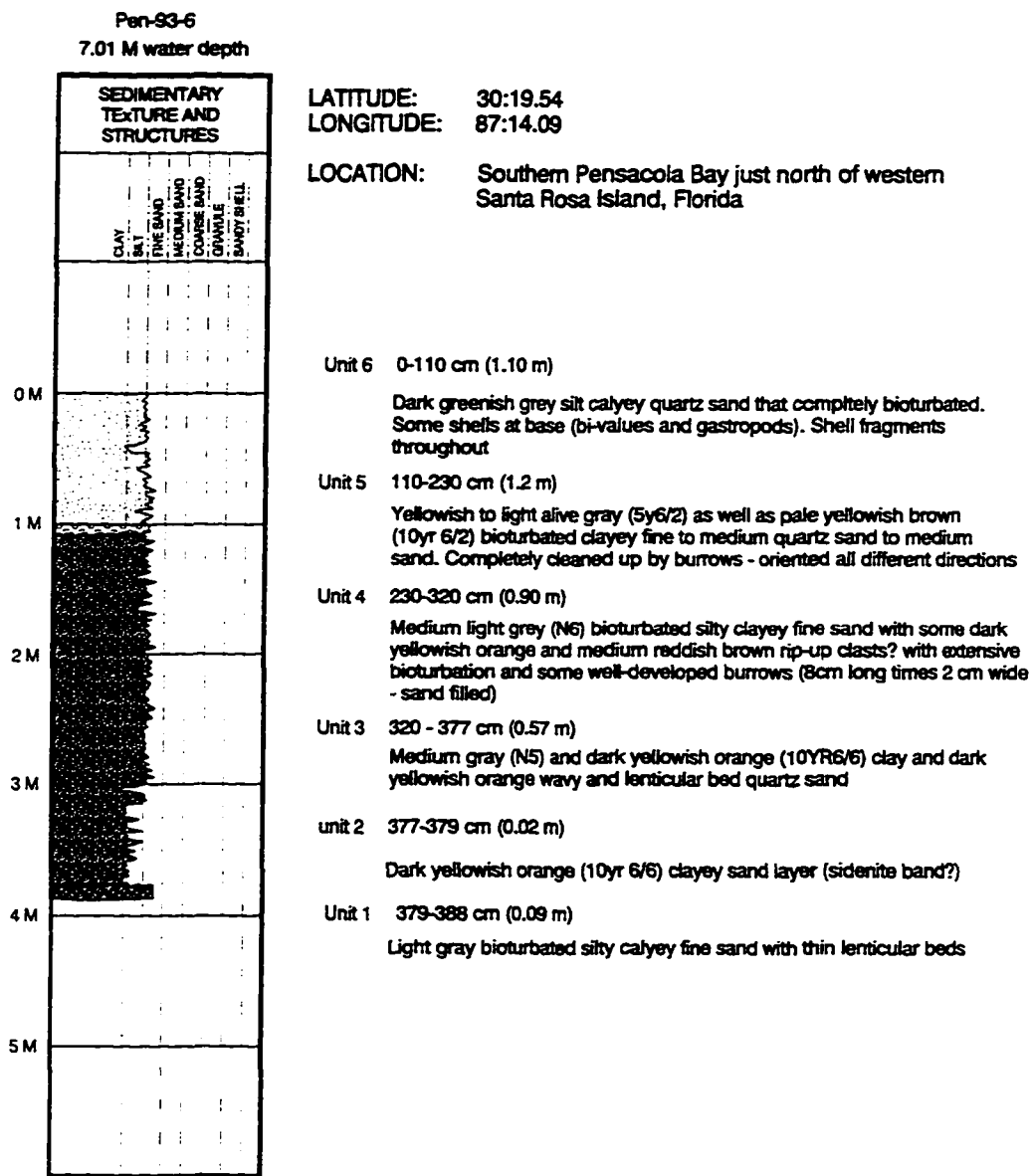
LOCATION: Just east of Pensacola Pass

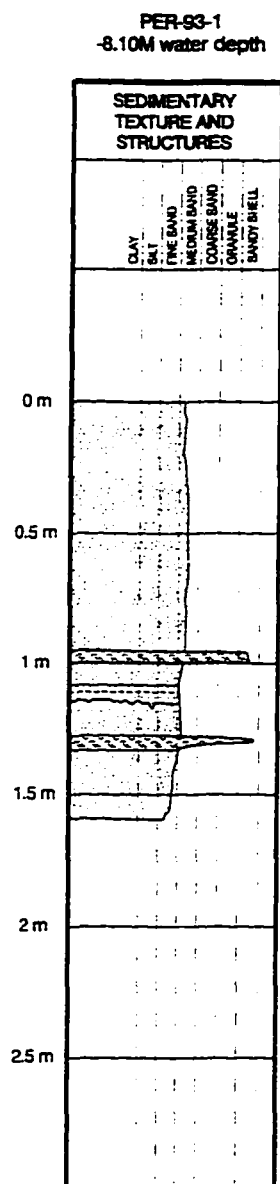
Unit 2 0-356 cm

Thick massive unit. Tan medium grained sand mixed with shell fragments. Shell fragment content progressively decreases towards top. Sand slowly fines upwards from 0.47 to 0.35 mm. Silt is the predominant constituent in top 12 cm. Heavy minerals present (nearly 2%).

Unit 1 356-364 cm

Thin layer consists of bivalve shells mixed with tan coarse sand matrix. Most shells have a preferred orientation of concave upward (Rapid deposition).





LATITUDE: 30:15.16  
LONGITUDE: 87:33.85

LOCATION: Perdido Pass, Alabama

**Unit 5 0-100 cm**

Thick, massive unit of medium grained, tan color quartz sand mixed with shell fragments. It gradually decreases from bottom to top. Bottom most 5 cm column is full of shelly of pelyceps and gastropods. contact units bottom is erosional. Heavy mineral present.

**Unit 4 100-107 cm**

Coarse grained, tan color quartz sand as in the top unit.

**Unit 3 107-115 cm**

sand at the top column protrudes into clay dominant column. Gastropod shells are seen. Sand in the top is coarse grained.

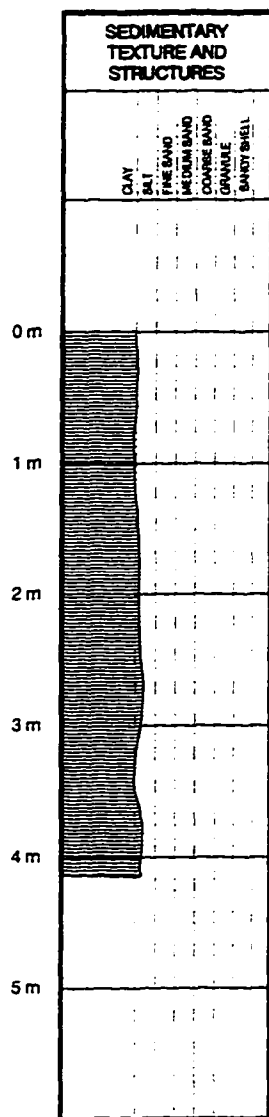
**Unit 2 115-130 cm**

Medium to fine grained, tan color quartz sand units shells and fragment of pelyceps. Shell concentration is more at the bottom. contact units the top is sharp and erosional.

**Unit 1 159-130 cm**

It is silty sand at the top and at the bottom clayey silt. Gray color. bioturbation throughout more at bottom and progressively decreases towards top. Coarsening upward. Contact units top is gradational. Shell fragment present.

PER-93-2  
-3.66M water depth



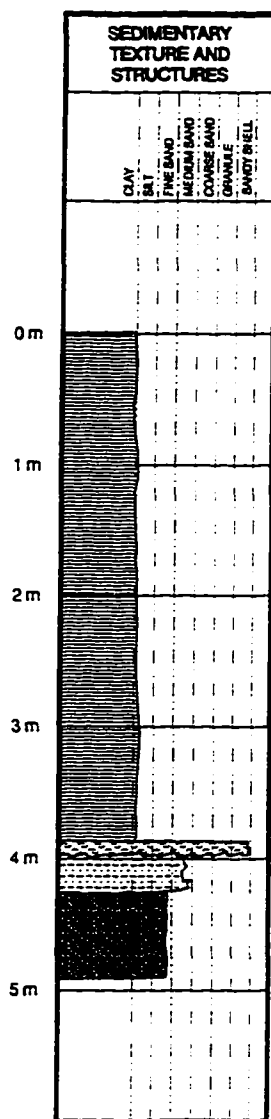
LATITUDE: 30:20.34  
LONGITUDE: 87:26.51

LOCATION: Northern Perdido bay, Florida

Unit 1 0-417 cm (4.17m)

Dark grey laminated clay with subtle bioturbation throughout.  
Becomes softer towards top less consolidated.

PER-93-3  
-3.66M water depth



LATITUDE: 30:19.37  
LONGITUDE: 87:28.37

LOCATION: Southern portion of Perdido Bay, Florida

**Facies 4** 0-387 cm (3.87 m)  
Dark grey, laminated clay.  
Slight to no bioturbation.

**Facies 3** 387-400 cm (0.13 m)  
Greyish brown, crudely stratified sandy shell layer laminated by bi-valves. Shells still have fragile ornamentation on surface. Possibly a couple of oysters, sandy matrix.

**Facies 2** 400-427 cm (0.27 m)  
Brown, lightly bioturbated fine quartz sand with bioturbation upward. Well developed burrows @ base otherwise bedding destroyed by bioturbation. Also, small (2x3cm) rip-up clasts at base. Derived from underlying unit.

**Facies 1** 427-493 cm (0.66 m)  
Light grey bioturbated clayey fine sand with large (up to 4 cm long) quartz and filled burrows. Soil horizon bioturbation destroys bedding.

## **APPENDIX B. GRAIN-SIZE STATISTICS BY CORE AND SAMPLE DEPTH**

In Appendix B, each page typically shows detailed grain size statistics for two sediment samples. See Appendix A for further explanation regarding organization of data. The sediment samples are further organized by depth (cm) from core top.

Offshore Alabama (ALA-91-01)

Locality Shelf Type Sand Sample 0 cm Date 8-16-91 Profile Analysis Date 11-4-91 Analyz DM/RM

X Position : 30:12.48 Y Position : 87:55.01

Elevation of Top of Core : 40'  
Length of Core : 493 cm  
Depth to Top of Sample :  
Depth to Bottom of Sample : 5 cm

Comments : Thuy Bul

Start Weight : 7.182 Final Weight : 7.085 Deviation : 1.351 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.971	13.705	82.159
1.00	0.500	0.038	0.536	0.536	3.00	0.125	0.636	8.977	91.136
1.25	0.420	0.306	4.319	4.855	3.25	0.105	0.389	5.490	96.627
1.50	0.354	0.347	4.898	9.753	3.50	0.088	0.093	1.313	97.939
1.75	0.297	0.457	6.450	16.203	3.75	0.074	0.039	0.550	98.490
2.00	0.250	1.182	16.683	32.886	4.00	0.063	0.030	0.423	98.913
2.25	0.210	0.976	13.776	46.662	4.25	0.053	0.077	1.087	100.000
2.50	0.177	1.544	21.793	68.454					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.536	32.350	66.027	1.087	0.000
Unified Classification	0.000	0.000	4.855	91.634	1.510	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.26	0.57	0.23	3.52
Folk Graphic Measures (PHI)	2.29	2.28	0.56	-0.05	1.07
Grain Size (mm)	0.20	0.21			

Offshore Alabama (ALA-91-01)

Locality Shelf Type Sand Sample 50 cm Date 8-16-91 Profile Analysis Date 11-4-91 Analyz DM/RM

X Position : 30:12.48 Y Position : 87:55.01

Elevation of Top of Core : 40'  
Length of Core : 493 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 4.590 Final Weight : 4.545 Deviation : 0.980 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.764	16.810	78.218
1.00	0.500	0.039	0.858	0.858	3.00	0.125	0.518	11.397	89.615
1.25	0.420	0.126	2.772	3.630	3.25	0.105	0.308	6.777	96.392
1.50	0.354	0.109	2.398	6.029	3.50	0.088	0.072	1.584	97.976
1.75	0.297	0.165	3.630	9.659	3.75	0.074	0.027	0.594	98.570
2.00	0.250	0.614	13.509	23.168	4.00	0.063	0.022	0.484	99.054
2.25	0.210	0.621	13.663	36.832	4.25	0.053	0.043	0.946	100.000
2.50	0.177	1.117	24.576	61.408					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.858	22.310	75.886	0.946	0.000
Unified Classification	0.000	0.000	3.630	94.939	1.430	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.37	0.54	0.01	3.87
Folk Graphic Measures (PHI)	2.38	2.38	0.53	-0.06	1.11
Grain Size (mm)	0.19	0.19			



Offshore Alabama (ALA-91-01)

Locality Shelf Type Sand Sample 100 cm Date 8-16-91 Profile Analysis Date 11-4-91 Analyz DM/RM

X Position : 30:12.48 Y Position : 87:55.01

Elevation of Top of Core : 40'  
Length of Core : 493 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 3.275 Final Weight : 3.233 Deviation : 1.282 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.520	16.084	67.801
1.00	0.500	0.027	0.835	0.835	3.00	0.125	0.441	13.641	81.441
1.25	0.420	0.150	4.640	5.475	3.25	0.105	0.316	9.774	91.216
1.50	0.354	0.095	2.938	8.413	3.50	0.088	0.097	3.000	94.216
1.75	0.297	0.106	3.279	11.692	3.75	0.074	0.046	1.423	95.639
2.00	0.250	0.343	10.609	22.301	4.00	0.063	0.032	0.990	96.629
2.25	0.210	0.330	10.207	32.509	4.25	0.053	0.109	3.371	100.000
2.50	0.177	0.621	19.208	51.717					

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.835	21.466	74.327	3.371	0.000	
Unified Classification	0.000	0.000	5.475	90.164	4.361	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.48	0.66	0.08	3.31
Folk Graphic Measures (PHI)	2.48	2.46	0.67	-0.04	1.21
Grain Size (mm)	0.18	0.18			

Offshore Alabama (ALA-91-01)

Locality Shelf Type Sand Sample 150 cm Date 8-16-91 Profile Analysis Date 11-5-91 Analyz DM/RM

X Position : 30:12.48 Y Position : 87:55.01

Elevation of Top of Core : 40'  
Length of Core : 493 cm  
Depth to Top of Sample : 145cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 5.888 Final Weight : 5.821 Deviation : 1.128 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.647	11.115	84.144
1.00	0.500	0.039	0.670	0.670	3.00	0.125	0.467	8.023	92.166
1.25	0.420	0.602	10.342	11.012	3.25	0.105	0.300	5.154	97.320
1.50	0.354	0.460	7.902	18.914	3.50	0.088	0.074	1.271	98.591
1.75	0.297	0.489	8.401	27.315	3.75	0.074	0.036	0.618	99.210
2.00	0.250	0.998	17.145	44.460	4.00	0.063	0.014	0.241	99.450
2.25	0.210	0.668	11.476	55.935	4.25	0.053	0.012	0.550	100.000
2.50	0.177	0.995	17.093	73.029					

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.670	43.790	54.991	0.550	0.000	
Unified Classification	0.000	0.000	11.012	88.198	0.790	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.12	0.62	0.20	2.71
Folk Graphic Measures (PHI)	2.12	2.09	0.64	-0.03	0.97
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-01)

Locality Shelf Type Sand Sample 200 cm Date 8-16-91 Profile Analysis Date 11-5-91 Analyz DM/RM

X Position : 30:12.48 Y Position : 87:55.01

Elevation of Top of Core : 40'  
Length of Core : 493 cm  
Depth to Top of Sample : 195cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 5.091 Final Weight : 4.972 Deviation : 2.337 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.722	14.521	70.455
1.00	0.500	0.006	0.121	0.121	3.00	0.125	0.571	11.484	81.939
1.25	0.420	0.143	2.876	2.997	3.25	0.105	0.409	8.226	90.165
1.50	0.354	0.131	2.635	5.632	3.50	0.088	0.137	2.755	92.920
1.75	0.297	0.172	3.459	9.091	3.75	0.074	0.083	1.669	94.590
2.00	0.250	0.692	13.918	23.009	4.00	0.063	0.062	1.247	95.837
2.25	0.210	0.629	12.651	35.660	4.25	0.053	0.207	4.163	100.000
2.50	0.177	1.008	20.274	55.933					

Sample Content by Weight Percent :

	Gravel coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	0.121	22.888	72.828	4.163
Unified Classification	0.000	0.000	2.997	91.593	5.410

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.48	0.65	0.46	3.42
Polk Graphic Measures (PHI)	2.43	2.45	0.66	0.12	1.21
Grain Size (mm)	0.19	0.18			

Offshore Alabama (ALA-91-01)

Locality Shelf Type Sand Sample 250 cm Date 8-16-91 Profile Analysis Date 11-5-91 Analyz DM/RM

X Position : 30:12.48 Y Position : 87:55.01

Elevation of Top of Core : 40'  
Length of Core : 493 cm  
Depth to Top of Sample : 245cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 7.206 Final Weight : 7.149 Deviation : 0.791 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.75	0.297	0.000	0.000	0.000	3.25	0.105	0.241	3.371	97.888
2.00	0.250	0.989	13.834	13.834	3.50	0.088	0.064	0.895	98.783
2.25	0.210	1.275	17.835	31.669	3.75	0.074	0.026	0.364	99.147
2.50	0.177	2.447	34.229	65.897	4.00	0.063	0.000	0.000	99.147
2.75	0.149	1.448	20.255	86.152	4.25	0.053	0.061	0.853	100.000
3.00	0.125	0.598	8.365	94.517					

Sample Content by Weight Percent :

	Gravel coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	0.000	13.834	85.313	0.853
Unified Classification	0.000	0.000	0.000	99.147	0.853

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.41	0.37	1.09	6.08
Polk Graphic Measures (PHI)	2.38	2.38	0.35	0.04	1.07
Grain Size (mm)	0.19	0.19			

## Offshore Alabama (ALA-91-01)

Locality	Type	Sample	Date	Profile	Analysis Date	Analysis
Shelf						DW/RM
	Sand	300 cm	8-16-91		11-5-91	
		X Position : 30112.48		Y Position : 87:55.01		
		Elevation of Top of Core : 40'		Length of Core : 493 cm		
		Depth to Top of Sample : 395cm		Depth to Bottom of Sample : 305 cm		
Comments : Thuy Bul						

**Comments : Thuy Bul**

Start Weight : 5.396 Final Weight : 5.326 Deviation : 1.297 %

PHI	MM	Weight	Percent	Cumulative Percent
1.00	0.595	0.000	0.000	0.000
1.75	0.500	0.014	0.263	0.263
1.50	0.420	0.061	1.145	1.408
1.25	0.354	0.069	1.296	2.704
1.75	0.297	0.109	2.047	4.750
2.00	0.250	0.571	10.721	15.471
2.25	0.210	1.782	14.833	30.304
2.50	0.177	1.580	29.703	60.008
2.75	0.145	1.030	2.75	0.125
3.00	0.125	0.503	3.00	0.145
3.25	0.105	0.286	3.25	0.125
3.50	0.088	0.087	3.50	0.105
3.75	0.074	0.044	3.75	0.088
4.00	0.063	0.037	4.00	0.074
4.25	0.053	0.143	4.25	0.063
79.3	9.3	88.7	79.3	9.3
88.7	9.4	98.1	88.7	9.4
94.1	9.5	99.7	94.1	9.5
95.7	9.6	99.8	95.7	9.6
96.6	9.6	99.9	96.6	9.6
97.3	9.7	100.0	97.3	9.7
100.0	10.0	100.0	100.0	10.0

**Sample Content by Weight Percent :**

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	0.253	15.208	81.844	2.685	0.000
Unified Classification	0.000	0.000	1.408	95.212	3.380	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.46	0.92	0.72	9.06
Folk Graphic Measures (PHI)		2.42	2.43	0.46	0.12	1.25
Grain Size (mm)		0.19	0.18			

Method of Moments (PHI)  
Folk Graphic Measures (PHI)  
Grain Size (mm)

1. *Phragmites australis* (Cav.) Trin. ex Steud.  
 2. *Scirpus americanus* (L.) Pers.  
 3. *Eleocharis acicularis* (L.) Rostk Schmidt  
 4. *Sagittaria arifolia* (L.) Link.  
 5. *Alisma plantago-foliosa* (L.) Rostk Schmidt  
 6. *Sparganium angustifolium* Michx.  
 7. *Najas* sp.  
 8. *Chara* sp.  
 9. *Utricularia* sp.  
 10. *Hydrocotyle* sp.  
 11. *Salvinia* sp.  
 12. *Wolffia* sp.  
 13. *Elodea* sp.  
 14. *Hydrilla* sp.  
 15. *Chara* sp.  
 16. *Utricularia* sp.  
 17. *Hydrocotyle* sp.  
 18. *Salvinia* sp.  
 19. *Wolffia* sp.  
 20. *Elodea* sp.  
 21. *Hydrilla* sp.  
 22. *Chara* sp.  
 23. *Utricularia* sp.  
 24. *Hydrocotyle* sp.  
 25. *Salvinia* sp.  
 26. *Wolffia* sp.  
 27. *Elodea* sp.  
 28. *Hydrilla* sp.  
 29. *Chara* sp.  
 30. *Utricularia* sp.  
 31. *Hydrocotyle* sp.  
 32. *Salvinia* sp.  
 33. *Wolffia* sp.  
 34. *Elodea* sp.  
 35. *Hydrilla* sp.  
 36. *Chara* sp.  
 37. *Utricularia* sp.  
 38. *Hydrocotyle* sp.  
 39. *Salvinia* sp.  
 40. *Wolffia* sp.  
 41. *Elodea* sp.  
 42. *Hydrilla* sp.  
 43. *Chara* sp.  
 44. *Utricularia* sp.  
 45. *Hydrocotyle* sp.  
 46. *Salvinia* sp.  
 47. *Wolffia* sp.  
 48. *Elodea* sp.  
 49. *Hydrilla* sp.  
 50. *Chara* sp.  
 51. *Utricularia* sp.  
 52. *Hydrocotyle* sp.  
 53. *Salvinia* sp.  
 54. *Wolffia* sp.  
 55. *Elodea* sp.  
 56. *Hydrilla* sp.  
 57. *Chara* sp.  
 58. *Utricularia* sp.  
 59. *Hydrocotyle* sp.  
 60. *Salvinia* sp.  
 61. *Wolffia* sp.  
 62. *Elodea* sp.  
 63. *Hydrilla* sp.  
 64. *Chara* sp.  
 65. *Utricularia* sp.  
 66. *Hydrocotyle* sp.  
 67. *Salvinia* sp.  
 68. *Wolffia* sp.  
 69. *Elodea* sp.  
 70. *Hydrilla* sp.  
 71. *Chara* sp.  
 72. *Utricularia* sp.  
 73. *Hydrocotyle* sp.  
 74. *Salvinia* sp.  
 75. *Wolffia* sp.  
 76. *Elodea* sp.  
 77. *Hydrilla* sp.  
 78. *Chara* sp.  
 79. *Utricularia* sp.  
 80. *Hydrocotyle* sp.  
 81. *Salvinia* sp.  
 82. *Wolffia* sp.  
 83. *Elodea* sp.  
 84. *Hydrilla* sp.  
 85. *Chara* sp.  
 86. *Utricularia* sp.  
 87. *Hydrocotyle* sp.  
 88. *Salvinia* sp.  
 89. *Wolffia* sp.  
 90. *Elodea* sp.  
 91. *Hydrilla* sp.  
 92. *Chara* sp.  
 93. *Utricularia* sp.  
 94. *Hydrocotyle* sp.  
 95. *Salvinia* sp.  
 96. *Wolffia* sp.  
 97. *Elodea* sp.  
 98. *Hydrilla* sp.  
 99. *Chara* sp.  
 100. *Utricularia* sp.  
 101. *Hydrocotyle* sp.  
 102. *Salvinia* sp.  
 103. *Wolffia* sp.  
 104. *Elodea* sp.  
 105. *Hydrilla* sp.  
 106. *Chara* sp.  
 107. *Utricularia* sp.  
 108. *Hydrocotyle* sp.  
 109. *Salvinia* sp.  
 110. *Wolffia* sp.  
 111. *Elodea* sp.  
 112. *Hydrilla* sp.  
 113. *Chara* sp.  
 114. *Utricularia* sp.  
 115. *Hydrocotyle* sp.  
 116. *Salvinia* sp.  
 117. *Wolffia* sp.  
 118. *Elodea* sp.  
 119. *Hydrilla* sp.  
 120. *Chara* sp.  
 121. *Utricularia* sp.  
 122. *Hydrocotyle* sp.  
 123. *Salvinia* sp.  
 124. *Wolffia* sp.  
 125. *Elodea* sp.  
 126. *Hydrilla* sp.  
 127. *Chara* sp.  
 128. *Utricularia* sp.  
 129. *Hydrocotyle* sp.  
 130. *Salvinia* sp.  
 131. *Wolffia* sp.  
 132. *Elodea* sp.  
 133. *Hydrilla* sp.  
 134. *Chara* sp.  
 135. *Utricularia* sp.  
 136. *Hydrocotyle* sp.  
 137. *Salvinia* sp.  
 138. *Wolffia* sp.  
 139. *Elodea* sp.  
 140. *Hydrilla* sp.  
 141. *Chara* sp.  
 142. *Utricularia* sp.  
 143. *Hydrocotyle* sp.  
 144. *Salvinia* sp.  
 145. *Wolffia* sp.  
 146. *Elodea* sp.  
 147. *Hydrilla* sp.  
 148. *Chara* sp.  
 149. *Utricularia* sp.  
 150. *Hydrocotyle* sp.  
 151. *Salvinia* sp.  
 152. *Wolffia* sp.  
 153. *Elodea* sp.  
 154. *Hydrilla* sp.  
 155. *Chara* sp.  
 156. *Utricularia* sp.  
 157. *Hydrocotyle* sp.  
 158. *Salvinia* sp.  
 159. *Wolffia* sp.  
 160. *Elodea* sp.  
 161. *Hydrilla* sp.  
 162. *Chara* sp.  
 163. *Utricularia* sp.  
 164. *Hydrocotyle* sp.  
 165. *Salvinia* sp.  
 166. *Wolffia* sp.  
 167. *Elodea* sp.  
 168. *Hydrilla* sp.  
 169. *Chara* sp.  
 170. *Utricularia* sp.  
 171. *Hydrocotyle* sp.  
 172. *Salvinia* sp.  
 173. *Wolffia* sp.  
 174. *Elodea* sp.  
 175. *Hydrilla* sp.  
 176. *Chara* sp.  
 177. *Utricularia* sp.  
 178. *Hydrocotyle* sp.  
 179. *Salvinia* sp.  
 180. *Wolffia* sp.  
 181. *Elodea* sp.  
 182. *Hydrilla* sp.  
 183. *Chara* sp.  
 184. *Utricularia* sp.  
 185. *Hydrocotyle* sp.  
 186. *Salvinia* sp.  
 187. *Wolffia* sp.  
 188. *Elodea* sp.  
 189. *Hydrilla* sp.  
 190. *Chara* sp.  
 191. *Utricularia* sp.  
 192. *Hydrocotyle* sp.  
 193. *Salvinia* sp.  
 194. *Wolffia* sp.  
 195. *Elodea* sp.  
 196. *Hydrilla* sp.  
 197. *Chara* sp.  
 198. *Utricularia* sp.  
 199. *Hydrocotyle* sp.  
 200. *Salvinia* sp.  
 201. *Wolffia* sp.  
 202. *Elodea* sp.  
 203. *Hydrilla* sp.  
 204. *Chara* sp.  
 205. *Utricularia* sp.

## Offshore Alabama (ALA-91-02)

Locality	Type	Sample	Date	Profile	Analysis Date	Analysis
Shelf					2-23-94	TB/RM
	Sand	5 cm	8-16-91			
				X Position : 87152	Y Position : 3012.50	
				Elevation of Top of Core : 40'		
				Length of Core : 436 cm		
				Depth to Top of Sample : 0 cm		
				Depth to Bottom of Sample : 10 cm		

**Comments : Thuy Bui**

Start Weight :	11.231	Final Weight :	11.163	Deviation :	0.603
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PHI	MM	Weight	Cumul		PHI	MM	Weight	Cumul	
			Percent	Percent				Percent	Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.647	14.754	34.650
-0.20	1.000	0.014	0.125	0.125	2.50	0.177	1.679	32.957	67.607
-0.25	0.841	0.029	0.260	0.385	2.75	0.149	1.977	17.710	85.318
0.50	0.707	0.029	0.260	0.645	3.00	0.125	1.052	9.424	94.742
0.75	0.595	0.040	0.358	1.003	3.25	0.105	0.438	3.924	98.665
1.00	0.500	0.075	0.572	1.675	3.50	0.088	0.083	0.744	99.400
1.25	0.420	0.075	0.687	2.562	3.75	0.074	0.043	0.161	99.794
1.50	0.354	0.116	1.039	3.601	4.00	0.063	0.018	0.181	99.955
1.75	0.297	0.264	2.365	5.966	4.25	0.053	0.005	0.045	100.000
2.00	0.250	1.555	13.330	19.896					

**Sample Content by Weight Percent :**

	Gravel	coarse	medium	fine	Silt	Clay
Wentworth Classification	0.000	1.675	18.221	80.059	0.045	0.000
Unified Classification	0.000	0.000	2.562	97.232	0.206	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (Phi)		2.37	2.34	0.46	-0.92	6.75
Polk Graphic Measures (Phi)		0.19	0.20	0.41	-0.07	1.08
Grain Size (mm)						

### Method of Moments (PMM)

Method of Moments (PHI)  
Polk Graphic Measures (PHI)  
Grain Size (mm)

*Ph. ... ..*

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 25 cm Date 8-16-91 Profile Analysis Date 2-23-94 Analyz TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.990 Final Weight : 11.947 Deviation : 0.359 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.696	14.196	42.940
0.00	1.000	0.018	0.151	0.151	2.50	0.177	3.407	28.518	71.457
0.25	0.841	0.052	0.435	0.586	2.75	0.149	1.809	15.142	86.599
0.50	0.707	0.061	0.511	1.097	3.00	0.125	0.960	8.035	94.635
0.75	0.595	0.095	0.795	1.892	3.25	0.105	0.422	3.532	98.167
1.00	0.500	0.187	1.565	3.457	3.50	0.088	0.096	0.804	98.970
1.25	0.420	0.259	2.168	5.625	3.75	0.074	0.053	0.444	99.414
1.50	0.354	0.289	2.419	8.044	4.00	0.063	0.037	0.310	99.724
1.75	0.297	0.525	4.394	12.438	4.25	0.053	0.033	0.276	100.000
2.00	0.250	1.948	16.305	28.744					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.457	25.287	70.980	0.276	0.000
Unified Classification	0.000	0.000	5.625	93.789	0.586	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.24	0.55	-0.72	5.20
Folk Graphic Measures (PHI)	2.31	2.27	0.51	-0.18	1.23
Grain Size (mm)	0.20	0.21			

Disc removed, med. and silted,  
also by new method, est. by photo.

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 50 cm Date 8-16-91 Profile Analysis Date 2-25-94 Analyz TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.061 Final Weight : 11.024 Deviation : 0.335 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.648	14.949	52.431
0.00	1.000	0.014	0.127	0.127	2.50	0.177	2.852	25.871	78.302
0.25	0.841	0.059	0.535	0.662	2.75	0.149	1.311	11.892	90.194
0.50	0.707	0.087	0.789	1.451	3.00	0.125	0.631	5.724	95.918
0.75	0.595	0.108	0.980	2.431	3.25	0.105	0.266	2.413	98.331
1.00	0.500	0.233	2.114	4.545	3.50	0.088	0.068	0.617	98.948
1.25	0.420	0.310	2.812	7.357	3.75	0.074	0.045	0.408	99.356
1.50	0.354	0.374	3.393	10.749	4.00	0.063	0.034	0.308	99.664
1.75	0.297	0.723	6.558	17.308	4.25	0.053	0.037	0.336	100.000
2.00	0.250	2.224	20.174	37.482					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.545	32.937	62.183	0.336	0.000
Unified Classification	0.000	0.000	7.357	91.999	0.644	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.57	-0.55	4.78
Folk Graphic Measures (PHI)	2.21	2.18	0.52	-0.16	1.26
Grain Size (mm)	0.22	0.23			

Disc removed, med. and silted,  
also by new method, est. by photo.

## Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample Date 8-16-91 Profile Analysis Date 2-25-94 TB/RM  
 X Position : 87152 Y Position : 30112.50  
 Elevation of Top of Core : 40'  
 Length of Core : 436 cm  
 Depth to Top of Sample : 70 cm  
 Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 11.062		Final Weight : 10.971		Deviation : 0.823 %					
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	2.25	0.210	1.159	10.564	49.421	
0.00	1.000	0.035	0.319	2.50	0.177	2.524	23.006	72.427	
0.25	0.841	0.118	1.076	2.75	0.149	1.623	14.794	87.231	
0.50	0.707	0.143	1.303	3.00	0.125	0.888	8.094	95.315	
0.75	0.595	0.189	1.723	3.25	0.105	0.372	3.391	98.706	
1.00	0.500	0.316	2.880	3.50	0.088	0.047	0.428	99.134	
1.25	0.420	0.332	3.026	3.75	0.074	0.036	0.328	99.462	
1.50	0.354	0.348	3.172	4.00	0.063	0.026	0.237	99.659	
1.75	0.297	0.660	6.016	4.25	0.053	0.033	0.301	100.000	
2.00	0.250	2.122	19.342						

Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	7.301	31.556	60.842	0.301	0.000
Unified Classification	0.000	0.000	10.327	89.135	0.538	0.000

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.26	2.13	0.65	-0.78	4.18
Grain Size (mm)	0.21	0.23	0.60	-0.26	1.24

fine sand, silt, well sorted,  
 not very well-sorted, silt, clay.

## Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample Date 8-16-91 Profile Analysis Date 2-25-94 TB/RM  
 X Position : 87152 Y Position : 30112.50  
 Elevation of Top of Core : 40'  
 Length of Core : 436 cm  
 Depth to Top of Sample : 95 cm  
 Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 11.118				Final Weight : 11.017				Deviation : 0.908 %			
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	PHI	MM	Weight	Percent
-0.25	1.189	0.000	0.000	2.25	0.210	1.420	12.889	38.504			
0.00	1.000	0.010	0.091	2.50	0.177	2.639	23.954	64.588			
0.25	0.841	0.038	0.345	2.75	0.149	1.875	17.019	79.477			
0.50	0.707	0.076	0.690	3.00	0.125	1.286	11.673	91.150			
0.75	0.595	0.097	0.880	3.25	0.105	0.688	6.245	97.395			
1.00	0.500	0.177	1.607	3.50	0.088	0.114	1.035	98.430			
1.25	0.420	0.187	1.697	3.75	0.074	0.072	0.654	99.083			
1.50	0.354	0.194	1.761	4.00	0.063	0.047	0.427	99.510			
1.75	0.297	0.390	3.540	4.25	0.053	0.054	0.490	100.000			
2.00	0.250	1.653	15.004								

Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	3.613	22.002	73.895	0.490	0.000
Unified Classification	0.000	0.000	9.310	93.773	0.917	0.000

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.37	2.32	0.58	-0.67	4.87
Grain Size (mm)	0.19	0.20	0.55	-0.12	1.15

fine sand, med. well sorted,  
 slightly over-sorted, silt, clay.

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 125 cm Date 8-16-91 Profile Analysis Date 2-25-94 Analyz TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 11.441 Final Weight : 11.292 Deviation : 1.302 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.315	11.645	45.386
0.00	1.000	0.051	0.452	0.452	2.50	0.177	2.532	22.423	67.809
0.25	0.841	0.139	1.231	1.683	2.75	0.149	1.739	15.400	83.209
0.50	0.707	0.162	1.435	3.117	3.00	0.125	1.156	10.237	93.447
0.75	0.595	0.225	1.993	5.110	3.25	0.105	0.591	5.234	98.680
1.00	0.500	0.362	3.206	8.316	3.50	0.088	0.048	0.425	99.106
1.25	0.420	0.359	3.179	11.495	3.75	0.074	0.047	0.416	99.522
1.50	0.354	0.307	2.719	14.214	4.00	0.063	0.030	0.266	99.787
1.75	0.297	0.528	4.676	18.889	4.25	0.053	0.024	0.213	100.000
2.00	0.250	1.677	14.851	33.741					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	8.316	25.425	66.047	0.213	0.000
Unified Classification	0.000	0.000	11.495	88.027	0.478	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.17	0.69	-0.90	4.02
Folk Graphic Measures (PHI)	2.30	2.22	0.65	-0.27	1.25
Grain Size (mm)	0.20	0.22			

fine sand, med. sand, silt,  
strongly coarse - abundant, silt, clay

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 150 cm Date 8-16-91 Profile Analysis Date 2-25-94 Analyz TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 11.558 Final Weight : 11.500 Deviation : 0.502 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.232	10.713	40.365
0.00	1.000	0.045	0.391	0.391	2.50	0.177	2.443	21.243	61.609
0.25	0.841	0.122	1.061	1.452	2.75	0.149	1.946	16.922	78.530
0.50	0.707	0.147	1.278	2.730	3.00	0.125	1.404	12.209	90.739
0.75	0.595	0.175	1.522	4.252	3.25	0.105	0.755	6.565	97.304
1.00	0.500	0.337	2.930	7.183	3.50	0.088	0.153	1.330	98.635
1.25	0.420	0.332	2.887	10.070	3.75	0.074	0.064	0.557	99.191
1.50	0.354	0.309	2.687	12.757	4.00	0.063	0.042	0.365	99.557
1.75	0.297	0.456	3.965	16.722	4.25	0.053	0.051	0.443	100.000
2.00	0.250	1.487	12.930	29.652					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	7.183	22.470	69.904	0.443	0.000
Unified Classification	0.000	0.000	10.070	89.122	0.809	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.25	0.69	-0.87	4.15
Folk Graphic Measures (PHI)	2.36	2.31	0.65	-0.23	1.22
Grain Size (mm)	0.19	0.21			

fine sand, med. sand, silt,  
strongly coarse - abundant, silt, clay

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 175 cm Date 8-16-91 Profile Analysis Date 2-28-94 Analyz BA/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 12.665 Final Weight : 12.549 Deviation : 0.916 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.673	13.332	38.872
-0.50	1.414	0.267	2.128	2.128	2.25	0.210	1.205	9.602	48.474
-0.25	1.189	0.101	0.805	2.933	2.50	0.177	2.298	18.112	66.786
0.00	1.000	0.116	0.924	3.857	2.75	0.149	1.920	15.300	82.086
0.25	0.841	0.182	1.450	5.307	3.00	0.125	1.425	11.355	93.442
0.50	0.707	0.185	1.474	6.781	3.25	0.105	0.683	5.443	98.884
0.75	0.595	0.258	2.056	8.837	3.50	0.088	0.051	0.406	99.291
1.00	0.500	0.535	4.263	13.101	3.75	0.074	0.040	0.319	99.610
1.25	0.420	0.509	4.056	17.157	4.00	0.063	0.027	0.215	99.825
1.50	0.354	0.434	3.458	20.615	4.25	0.053	0.022	0.175	100.000
1.75	0.297	0.618	4.925	25.540					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	13.101	25.771	60.953	0.175	0.000
Unified Classification	0.000	0.000	17.157	82.453	0.390	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.04	0.86	-1.14	4.17
Folk Graphic Measures (PHI)	2.27	2.08	0.84	-0.40	1.29
Grain Size (mm)	0.21	0.24			

fine sand, med sorted,  
silt. coarse-sorted, silt. light.

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 200 cm Date 8-16-91 Profile Analysis Date 3-1-94 Analyz TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.307 Final Weight : 11.244 Deviation : 0.557 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.003	8.920	45.358
0.00	1.000	0.074	0.658	0.658	2.50	0.177	1.992	17.716	63.074
0.25	0.841	0.237	2.108	2.766	2.75	0.149	1.743	15.502	78.575
0.50	0.707	0.235	2.090	4.856	3.00	0.125	1.414	12.576	91.151
0.75	0.595	0.308	2.739	7.595	3.25	0.105	0.773	6.875	98.026
1.00	0.500	0.475	4.224	11.820	3.50	0.088	0.141	1.254	99.280
1.25	0.420	0.455	4.047	15.866	3.75	0.074	0.048	0.427	99.707
1.50	0.354	0.367	3.264	19.130	4.00	0.063	0.022	0.196	99.902
1.75	0.297	0.529	4.705	23.835	4.25	0.053	0.011	0.098	100.000
2.00	0.250	1.417	12.602	36.437					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	11.820	24.618	63.465	0.098	0.000
Unified Classification	0.000	0.000	15.866	83.840	0.293	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.13	0.78	-0.81	3.19
Folk Graphic Measures (PHI)	2.32	2.14	0.80	-0.35	1.17
Grain Size (mm)	0.20	0.23			

fine sand, med. sorted, strongly  
coarse-sorted, silt. light.

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 225 cm Date 8-16-91 Profile Analysis Date 2-28-94 Analyz 8A/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 12.755 Final Weight : 12.632 Deviation : 0.964 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.114	8.819	53.832
0.00	1.000	0.504	3.990	3.990	2.50	0.177	1.982	15.690	69.522
0.25	0.841	0.308	2.438	6.428	2.75	0.149	1.638	12.967	82.489
0.50	0.707	0.311	2.462	8.890	3.00	0.125	1.307	10.347	92.836
0.75	0.595	0.428	3.388	12.278	3.25	0.105	0.710	5.621	98.456
1.00	0.500	0.710	5.621	17.899	3.50	0.088	0.081	0.641	99.098
1.25	0.420	0.620	4.908	22.807	3.75	0.074	0.048	0.380	99.478
1.50	0.354	0.491	3.887	26.694	4.00	0.063	0.034	0.269	99.747
1.75	0.297	0.692	5.478	32.172	4.25	0.053	0.032	0.253	100.000
2.00	0.250	1.622	12.840	45.013					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	17.899	27.114	54.734	0.253	0.000
Unified Classification	0.000	0.000	22.807	76.670	0.522	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.95	0.89	-0.66	2.74
Folk Graphic Measures (PHI)	2.14	1.95	0.92	-0.34	1.01
Grain Size (mm)	0.23	0.26			

Med. sand, med. sorted, at top  
fine - skewed, very light.

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 250 cm Date 8-16-91 Profile Analysis Date 2-28-94 Analyz TC/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bui

Start Weight : 15.490 Final Weight : 15.379 Deviation : 0.717 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.308	8.505	55.855
0.00	1.000	0.209	1.359	1.359	2.50	0.177	2.328	15.138	70.993
0.25	0.841	0.412	2.679	4.038	2.75	0.149	1.839	11.958	82.951
0.50	0.707	0.348	2.263	6.301	3.00	0.125	1.462	9.506	92.457
0.75	0.595	0.543	3.531	9.832	3.25	0.105	0.829	5.390	97.848
1.00	0.500	1.000	6.502	16.334	3.50	0.088	0.176	1.144	98.992
1.25	0.420	0.900	5.852	22.186	3.75	0.074	0.095	0.618	99.610
1.50	0.354	0.699	4.545	26.731	4.00	0.063	0.000	0.000	99.610
1.75	0.297	1.004	6.528	33.260	4.25	0.053	0.060	0.390	100.000
2.00	0.250	2.167	14.091	47.350					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	16.334	11.016	52.260	0.390	0.000
Unified Classification	0.000	0.000	22.186	77.424	0.390	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.96	0.84	-0.49	2.66
Folk Graphic Measures (PHI)	2.08	1.95	0.87	-0.23	0.96
Grain Size (mm)	0.24	0.26			

Med. sand, med. sorted, at top  
fine - skewed, very light.



Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 275 cm Date 8-16-91 Profile Analysis Date 3-1-94 Analysis TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 11.012 Final Weight : 10.953 Deviation : 0.536 g

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.888	8.107	50.854
0.00	1.000	0.083	0.758	0.758	2.50	0.177	1.609	14.690	65.544
0.25	0.841	0.268	2.447	3.205	2.75	0.149	1.350	12.325	77.869
0.50	0.707	0.253	2.310	5.514	3.00	0.125	1.139	10.399	88.268
0.75	0.595	0.368	3.360	8.874	3.25	0.105	0.826	7.541	95.809
1.00	0.500	0.604	5.514	14.389	3.50	0.088	0.240	2.191	98.001
1.25	0.420	0.569	5.195	19.584	3.75	0.074	0.104	0.950	98.950
1.50	0.354	0.449	4.099	23.683	4.00	0.063	0.063	0.575	99.525
1.75	0.297	0.616	5.624	29.307	4.25	0.053	0.052	0.475	100.000
2.00	0.250	1.472	13.439	42.746					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	14.389	28.358	56.779
Unified Classification	0.000	0.000	19.584	79.366

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.07	0.85	-0.48	2.71
Folk Graphic Measures (PHI)	2.22	2.07	0.88	-0.27	1.00
Grain Size (mm)	0.21	0.24			

fine sand, moderately sorted, strongly  
coarsely skewed, very light.

Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 300 cm Date 8-16-91 Profile Analysis Date 3-1-94 Analysis TB/RM

X Position : 87:52 Y Position : 30:12.50

Elevation of Top of Core : 40'  
Length of Core : 436 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 11.736 Final Weight : 11.683 Deviation : 0.452 g

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.991	8.482	53.257
0.00	1.000	0.089	0.762	0.762	2.50	0.177	1.756	15.030	68.287
0.25	0.841	0.248	2.123	2.885	2.75	0.149	1.425	12.197	80.484
0.50	0.707	0.266	2.277	5.161	3.00	0.125	1.159	9.920	90.405
0.75	0.595	0.381	3.261	8.422	3.25	0.105	0.763	6.531	96.936
1.00	0.500	0.704	6.026	14.448	3.50	0.088	0.201	1.720	98.656
1.25	0.420	0.671	5.743	20.192	3.75	0.074	0.081	0.693	99.349
1.50	0.354	0.522	4.468	24.660	4.00	0.063	0.043	0.368	99.718
1.75	0.297	0.744	6.368	31.028	4.25	0.053	0.033	0.282	100.000
2.00	0.250	1.606	13.746	44.774					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	14.448	30.326	54.943
Unified Classification	0.000	0.000	20.192	79.158

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.03	0.83	-0.47	2.68
Folk Graphic Measures (PHI)	2.15	2.02	0.85	-0.23	0.98
Grain Size (mm)	0.22	0.25			

fine sand, moderately sorted, slightly  
coarsely skewed, very light.

## Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 325 cm Date 8-16-91 Profile Analysis Date 3-1-94 Analyz TS/RH  
 X Position : 87152 Y Position : 30112.50  
 Elevation of Top of Core : 40'  
 Length of Core : 436 cm  
 Depth to Top of Sample : 320 cm  
 Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 11.214		Final Weight : 11.097		Deviation : 1.043	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	8.813	44.850
0.00	1.000	0.050	0.451	1.866	16.815
0.25	0.841	0.132	1.190	1.574	14.184
0.50	0.707	0.165	1.487	3.127	88.177
0.75	0.595	0.216	1.946	5.073	96.114
1.00	0.500	0.426	3.639	8.912	97.990
1.25	0.420	0.462	4.163	12.076	98.228
1.50	0.354	0.403	3.432	16.707	99.331
1.75	0.297	0.593	5.344	22.051	100.000
2.00	0.250	1.552	13.966	36.037	

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification	0.000	8.912	27.124	63.495	0.469	0.000	0.000		
Unified Classification	0.000	0.000	13.076	85.852	1.072	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.33		2.20		0.76		-0.62		3.29	
Folk Graphic Measures (PHI)		0.20		0.22		0.74		-0.24		1.09	
Grain Size (mm)											

fine sand, med. silt, clay  
 coarse silt, med. clay, silt, clay

## Offshore Alabama (ALA-91-02)

Locality Shelf Type Sand Sample 350 cm Date 8-16-91 Profile Analysis Date 3-1-94 Analyz TS/RH  
 X Position : 87152 Y Position : 30112.50  
 Elevation of Top of Core : 40'  
 Length of Core : 436 cm  
 Depth to Top of Sample : 345 cm  
 Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 11.114		Final Weight : 11.063		Deviation : 0.459	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	2.235	0.210
0.00	1.000	0.187	1.690	2.500	0.177
0.25	0.841	0.376	3.399	2.750	0.149
0.50	0.707	0.391	3.524	3.000	0.125
0.75	0.595	0.499	4.511	3.250	0.105
1.00	0.500	0.843	7.620	3.500	0.088
1.25	0.420	0.742	6.707	3.750	0.074
1.50	0.354	0.575	5.198	4.000	0.063
1.75	0.297	0.730	6.599	4.250	0.053
2.00	0.250	1.594	14.408		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification	0.000	20.764	32.912	45.973	0.362	0.000			
Unified Classification	0.000	0.000	27.461	71.771	0.768	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		1.94		1.84		0.88		-0.28		2.43	
Folk Graphic Measures (PHI)		0.26		0.28		0.91		-0.17		0.89	
Grain Size (mm)											

med. sand, med. silt, clay  
 very fine.

Offshore Alabama (ALA-91-02)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 10 cm Date 8-16-91 Profile Analysis Date 10-21-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 5 cm  
Depth to Bottom of Sample : 15 cm

Comments : Thuy Bul

Start Weight : 9.224 Final Weight : 9.202 Deviation : 0.239 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.259	13.682	92.969
1.25	0.420	0.034	0.369	0.369	3.00	0.125	0.461	5.010	97.979
1.50	0.354	0.301	3.271	3.641	3.25	0.105	0.116	1.261	99.239
1.75	0.297	0.690	7.498	11.139	3.50	0.088	0.017	0.185	99.424
2.00	0.250	2.100	22.821	33.960	3.75	0.074	0.007	0.076	99.500
2.25	0.210	1.582	17.192	51.152	4.00	0.063	0.010	0.109	99.609
2.50	0.177	2.589	28.135	79.287	4.25	0.053	0.036	0.391	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	0.000	33.960	65.649	0.391	0.000
Unified Classification	0.000	0.000	0.369	99.131	0.500	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.20	0.41	0.42	4.54
Folk Graphic Measures (PHI)	2.23	2.21	0.39	-0.08	0.96
Grain Size (mm)	0.21	0.22			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 60 cm Date 8-16-91 Profile Analysis Date 10-21-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 55 cm  
Depth to Bottom of Sample : 65 cm

Comments : Thuy Bul

Start Weight : 8.257 Final Weight : 8.219 Deviation : 0.460 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.192	14.503	93.150
1.25	0.420	0.020	0.243	0.243	3.00	0.125	0.420	5.110	98.260
1.50	0.354	0.207	2.519	2.762	3.25	0.105	0.097	1.180	99.440
1.75	0.297	0.516	6.278	9.040	3.50	0.088	0.021	0.256	99.696
2.00	0.250	1.791	21.791	30.831	3.75	0.074	0.013	0.158	99.854
2.25	0.210	1.487	18.092	48.923	4.00	0.063	0.012	0.146	100.000
2.50	0.177	2.443	29.724	78.647	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	0.000	30.831	69.169	0.000	0.000
Unified Classification	0.000	0.000	0.243	99.611	0.146	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.22	0.38	0.13	3.40
Folk Graphic Measures (PHI)	2.26	2.23	0.38	-0.10	0.96
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 100 cm Date 8-16-91 Profile Analysis Date 9-12-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 9.715 Final Weight : 9.680 Deviation : 0.360 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.701	17.572	92.138
1.25	0.420	0.054	0.558	0.558	3.00	0.125	0.572	5.909	98.048
1.50	0.354	0.346	3.574	4.132	3.25	0.105	0.154	1.591	99.638
1.75	0.297	0.488	5.041	9.174	3.50	0.088	0.022	0.227	99.866
2.00	0.250	1.823	18.833	28.006	3.75	0.074	0.009	0.093	99.959
2.25	0.210	1.598	16.508	44.514	4.00	0.063	0.004	0.041	100.000
2.50	0.177	2.909	30.052	74.566	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	0.000	28.006	71.994	0.000	0.000
Unified Classification	0.000	0.000	0.558	99.401	0.041	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.25	0.39	-0.19	3.10
Folk Graphic Measures (PHI)	2.30	2.26	0.40	-0.14	1.00
Grain Size (mm)	0.20	0.21			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 110 cm Date 8-16-91 Profile Analysis Date 10-21-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 105 cm  
Depth to Bottom of Sample : 115 cm

Comments : Thuy Bui

Start Weight : 5.632 Final Weight : 5.610 Deviation : 0.391 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	0.666	11.872	92.210
1.25	0.420	0.017	0.303	0.303	3.00	0.125	0.215	3.832	96.043
1.50	0.354	0.158	2.816	3.119	3.25	0.105	0.070	1.248	97.291
1.75	0.297	0.164	6.488	9.608	3.50	0.088	0.017	0.303	97.594
2.00	0.250	1.155	24.153	33.761	3.75	0.074	0.013	0.232	97.825
2.25	0.210	1.094	19.501	53.262	4.00	0.063	0.021	0.410	98.335
2.50	0.177	1.519	27.077	80.339	4.25	0.053	0.099	1.765	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	0.000	33.761	64.474	1.765	0.000
Unified Classification	0.000	0.000	0.303	97.922	2.175	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.46	1.34	7.08
Folk Graphic Measures (PHI)	2.21	2.20	0.40	0.02	1.03
Grain Size (mm)	0.22	0.21			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 160 cm Date 8-16-91 Profile Analysis Date 10-21-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 155 cm  
Depth to Bottom of Sample : 165 cm

Comments : Thuy Bui

Start Weight : 8.470 Final Weight : 8.473 Deviation : 0.035 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.218	14.175	91.951
1.25	0.420	0.026	0.307	0.307	3.00	0.125	0.426	5.028	96.979
1.50	0.354	0.298	3.517	3.824	3.25	0.105	0.108	1.275	98.253
1.75	0.297	0.572	6.751	10.575	3.50	0.088	0.021	0.248	98.501
2.00	0.250	1.801	21.256	31.831	3.75	0.074	0.015	0.177	98.678
2.25	0.210	1.446	17.066	48.896	4.00	0.063	0.013	0.153	98.832
2.50	0.177	2.430	28.679	77.576	4.25	0.053	0.099	1.168	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.000	31.831	67.001	1.168	0.000
Unified Classification	0.000	0.000	0.307	98.371	1.322	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.44	0.86	5.98
Folk Graphic Measures (PHI)	2.26	2.23	0.41	-0.09	1.00
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 195 cm Date 8-16-91 Profile Analysis Date 9-12-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 190 cm  
Depth to Bottom of Sample : 200 cm

Comments : Thuy Bui

Start Weight : 10.180 Final Weight : 10.109 Deviation : 0.697 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.369	13.542	91.491
1.25	0.420	0.113	1.118	1.118	3.00	0.125	0.475	4.699	98.190
1.50	0.354	0.660	6.529	7.647	3.25	0.105	0.135	1.335	99.525
1.75	0.297	1.038	10.268	17.915	3.50	0.088	0.022	0.218	99.743
2.00	0.250	2.483	24.562	42.477	3.75	0.074	0.010	0.099	99.842
2.25	0.210	1.440	14.245	56.722	4.00	0.063	0.006	0.059	99.901
2.50	0.177	2.348	23.227	79.949	4.25	0.053	0.010	0.099	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.000	42.477	57.424	0.099	0.000
Unified Classification	0.000	0.000	1.118	98.724	0.158	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.13	0.43	0.15	3.04
Folk Graphic Measures (PHI)	2.13	2.14	0.43	-0.00	0.94
Grain Size (mm)	0.23	0.23			

Offshore Alabama (ALA-91-03)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 205 cm 8-16-91 87:49.01 10-21-91 DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 200 cm  
Depth to Bottom of Sample : 210 cm

Comments : Thuy Bui

Start Weight : 9.665 Final Weight : 9.621 Deviation : 0.455 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	1.193	12.400	92.257
1.00	0.500	0.021	0.219	0.219	3.00	0.125	0.455	4.729	96.986
1.25	0.420	0.273	2.838	3.077	3.25	0.105	0.141	1.466	98.451
1.50	0.354	0.601	6.247	9.323	3.50	0.088	0.036	0.374	98.825
1.75	0.297	0.886	9.209	18.532	3.75	0.074	0.023	0.239	99.065
2.00	0.250	2.146	22.305	40.838	4.00	0.063	0.024	0.249	99.314
2.25	0.210	1.474	15.321	56.158	4.25	0.053	0.066	0.686	100.000
2.50	0.177	2.280	23.698	79.857					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	0.219	40.599	58.476	0.686	0.000
Unified Classification	0.000	0.000	3.077	95.988	0.935	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.49	0.44	4.43
Folk Graphic Measures (PHI)	2.15	2.14	0.46	-0.04	1.03
Grain Size (mm)	0.23	0.23			

Offshore Alabama (ALA-91-03)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 290 cm 8-16-91 87:49.01 10-21-91 DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 285 cm  
Depth to Bottom of Sample : 295 cm

Comments : Thuy Bui

Start Weight : 7.789 Final Weight : 7.722 Deviation : 0.860 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	1.224	15.851	81.248
1.00	0.500	0.011	0.142	0.142	3.00	0.125	0.785	10.166	91.414
1.25	0.420	0.221	2.862	3.004	3.25	0.105	0.378	4.895	96.309
1.50	0.354	0.249	3.225	6.229	3.50	0.088	0.084	1.088	97.397
1.75	0.297	0.437	5.659	11.888	3.75	0.074	0.042	0.544	97.941
2.00	0.250	1.415	18.324	30.212	4.00	0.063	0.028	0.363	98.304
2.25	0.210	1.030	13.339	43.551	4.25	0.053	0.131	1.696	100.000
2.50	0.177	1.687	21.847	65.398					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	0.142	30.070	68.091	1.696	0.000
Unified Classification	0.000	0.000	3.004	94.937	2.059	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.32	0.55	0.42	4.01
Folk Graphic Measures (PHI)	2.32	2.32	0.52	-0.03	1.01
Grain Size (mm)	0.20	0.20			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 300 cm Date 8-16-91 Profile Analysis Date 10-13-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 9.507 Final Weight : 9.427 Deviation : 0.841 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	1.789	18.977	66.819
0.75	0.595	0.003	0.032	0.032	2.75	0.149	1.320	14.002	80.821
1.00	0.500	0.215	2.281	2.313	3.00	0.125	0.974	10.332	91.153
1.25	0.420	0.374	3.967	6.280	3.25	0.105	0.508	5.389	96.542
1.50	0.354	0.387	4.105	10.385	3.50	0.088	0.111	1.177	97.719
1.75	0.297	0.641	6.800	17.185	3.75	0.074	0.053	0.562	98.282
2.00	0.250	1.766	18.733	35.918	4.00	0.063	0.029	0.308	98.589
2.25	0.210	1.124	11.923	47.841	4.25	0.053	0.133	1.411	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	2.313	33.606	62.671	1.411	0.000
Unified Classification	0.000	0.000	6.280	92.002	1.718	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.25	0.61	0.16	3.48
Folk Graphic Measures (PHI)	2.28	2.27	0.58	-0.06	1.04
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 350 cm Date 8-16-91 Profile Analysis Date 10-21-91 Analyz DM/RM

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 9.104 Final Weight : 8.987 Deviation : 1.285 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.585	17.637	62.835
1.25	0.420	0.021	0.234	0.234	3.00	0.125	1.418	15.778	78.614
1.50	0.354	0.159	1.769	2.003	3.25	0.105	1.004	11.172	89.785
1.75	0.297	0.342	3.805	5.808	3.50	0.088	0.245	2.726	92.511
2.00	0.250	1.040	11.572	17.381	3.75	0.074	0.138	1.536	94.047
2.25	0.210	0.800	8.902	26.282	4.00	0.063	0.102	1.135	95.182
2.50	0.177	1.700	18.916	45.199	4.25	0.053	0.433	4.818	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.000	17.381	77.801	4.818	0.000
Unified Classification	0.000	0.000	0.234	93.813	5.953	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.60	0.60	0.51	3.39
Folk Graphic Measures (PHI)	2.57	2.55	0.63	0.10	1.27
Grain Size (mm)	0.17	0.16			



Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 395 cm Date 8-16-91 Profile Analysis Date 10-10-91 Analyz DM/RM  
X Position : 30:12.72 Y Position : 87:49.01  
Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 390 cm  
Depth to Bottom of Sample : 400 cm

Comments : Thuy Bul

Start Weight : 6.927 Final Weight : 6.819 Deviation : 1.559 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.855	12.538	73.169
1.00	0.500	0.012	0.176	0.176	3.00	0.125	0.665	9.752	83.121
1.25	0.420	0.163	2.390	2.566	3.25	0.105	0.503	7.376	90.497
1.50	0.354	0.303	4.443	7.010	3.50	0.088	0.169	2.478	92.976
1.75	0.297	0.542	7.948	14.958	3.75	0.074	0.097	1.422	94.398
2.00	0.250	1.210	17.745	32.703	4.00	0.063	0.078	1.144	95.542
2.25	0.210	0.756	11.087	43.789	4.25	0.053	0.304	4.458	100.000
2.50	0.177	1.162	17.041	60.830					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.176	32.527	62.839	4.458	0.000
Unified Classification	0.000	0.000	2.566	91.832	5.602	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.40	0.68	0.61	3.23
Folk Graphic Measures (PHI)	2.34	2.38	0.69	0.16	1.14
Grain Size (mm)	0.20	0.19			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 405 cm Date 8-16-91 Profile Analysis Date 10-22-91 Analyz DM/RM  
X Position : 30:12.72 Y Position : 87:49.01  
Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 400 cm  
Depth to Bottom of Sample : 410 cm

Comments : Thuy Bul

Start Weight : 7.409 Final Weight : 7.363 Deviation : 0.621 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	1.007	13.676	72.946
1.25	0.420	0.040	0.543	0.543	3.00	0.125	0.748	10.159	83.105
1.50	0.354	0.350	4.753	5.297	3.25	0.105	0.592	8.040	91.145
1.75	0.297	0.624	8.475	13.772	3.50	0.088	0.189	2.567	93.712
2.00	0.250	1.304	17.710	31.482	3.75	0.074	0.124	1.684	95.396
2.25	0.210	0.804	10.919	42.401	4.00	0.063	0.064	0.869	96.265
2.50	0.177	1.242	16.868	59.269	4.25	0.053	0.275	3.735	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.000	31.482	64.783	3.735	0.000
Unified Classification	0.000	0.000	0.543	94.853	4.604	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.41	0.65	0.64	3.22
Folk Graphic Measures (PHI)	2.36	2.39	0.65	0.14	1.01
Grain Size (mm)	0.19	0.19			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 435 cm Date 8-16-91 Profile Analysis Date 10-23-91 Analyz DM/RH

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 430 cm  
Depth to Bottom of Sample : 440 cm

Comments : Thuy Bui

Start Weight : 6.294 Final Weight : 6.222 Deviation : 1.144 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.743	11.941	74.590
1.00	0.500	0.016	0.579	0.579	3.00	0.125	0.596	9.579	84.169
1.25	0.420	0.337	5.416	5.995	3.25	0.105	0.462	7.425	91.594
1.50	0.354	0.457	7.345	13.340	3.50	0.088	0.156	2.507	94.102
1.75	0.297	0.536	8.615	21.954	3.75	0.074	0.087	1.398	95.500
2.00	0.250	1.007	16.185	38.139	4.00	0.063	0.066	1.061	96.561
2.25	0.210	0.581	9.338	47.477	4.25	0.053	0.214	3.439	100.000
2.50	0.177	0.944	15.172	62.649					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.579	37.560	58.422	3.439	0.000
Unified Classification	0.000	0.000	5.995	89.505	4.500	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.71	0.45	2.94
Folk Graphic Measures (PHI)	2.29	2.29	0.73	0.05	1.04
Grain Size (mm)	0.20	0.20			

Offshore Alabama (ALA-91-03)

Locality Shelf Type Sand Sample 445 cm Date 8-16-91 Profile Analysis Date 10-13-91 Analyz DM/RH

X Position : 30:12.72 Y Position : 87:49.01

Elevation of Top of Core : 32'  
Length of Core : 467 cm  
Depth to Top of Sample : 440 cm  
Depth to Bottom of Sample : 450 cm

Comments : Thuy Bui

Start Weight : 10.430 Final Weight : 10.284 Deviation : 1.400 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	1.609	15.646	67.483
0.75	0.595	0.003	0.029	0.029	2.75	0.149	1.112	10.813	78.296
1.00	0.500	0.445	4.327	4.356	3.00	0.125	0.863	8.392	86.688
1.25	0.420	0.735	7.147	11.503	3.25	0.105	0.590	5.737	92.425
1.50	0.354	0.595	5.786	17.289	3.50	0.088	0.200	1.945	94.370
1.75	0.297	0.778	7.565	24.854	3.75	0.074	0.135	1.313	95.683
2.00	0.250	1.748	16.997	41.851	4.00	0.063	0.089	0.865	96.548
2.25	0.210	1.027	9.986	51.838	4.25	0.053	0.355	3.452	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.356	37.495	54.697	3.452	0.000
Unified Classification	0.000	0.000	11.503	84.179	4.317	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.22	0.75	0.39	3.04
Folk Graphic Measures (PHI)	2.20	2.19	0.76	0.03	1.16
Grain Size (mm)	0.22	0.22			

Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 5 cm Date 8-17-91 Profile Analysis Date 4-22-94 Analyz TB/RM

X Position : 30:14.47 Y Position : 87:40.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.529 Final Weight : 11.460 Deviation : 0.598 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.75	0.149	1.270	11.082	70.698
0.50	0.707	0.090	0.785	0.785	3.00	0.125	1.117	9.747	80.445
0.75	0.595	0.132	1.152	1.937	3.25	0.105	1.221	10.654	91.099
1.00	0.500	0.235	2.051	3.988	3.50	0.088	0.507	4.424	95.524
1.25	0.420	0.288	2.513	6.501	3.75	0.074	0.340	2.967	98.490
1.50	0.354	0.301	2.627	9.127	4.00	0.063	0.124	1.082	99.572
1.75	0.297	0.586	5.113	14.241	4.25	0.053	0.026	0.227	99.799
2.00	0.250	1.838	16.038	30.279	4.50	0.044	0.012	0.105	99.904
2.25	0.210	1.357	11.841	42.120	4.75	0.037	0.011	0.096	100.000
2.50	0.177	2.005	17.496	59.616					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.988	26.291	69.293	0.428	0.000
Unified Classification	0.000	0.000	6.501	91.990	1.510	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.36	0.69	-0.21	3.18
Folk Graphic Measures (PHI)	2.36	2.41	0.69	0.02	1.03
Grain Size (mm)	0.19	0.19			

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Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 25 cm Date 8-17-91 Profile Analysis Date 3-29-94 Analyz TB/RM

X Position : 30:14.47 Y Position : 87:40.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.420 Final Weight : 11.325 Deviation : 0.832 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.114	18.667	63.276
0.00	1.000	0.078	0.689	0.689	2.75	0.149	1.389	12.265	75.541
0.25	0.841	0.071	0.627	1.316	3.00	0.125	1.102	9.731	85.272
0.50	0.707	0.051	0.450	1.766	3.25	0.105	0.979	8.645	93.916
0.75	0.595	0.066	0.583	2.349	3.50	0.088	0.392	3.461	97.377
1.00	0.500	0.127	1.121	3.470	3.75	0.074	0.165	1.457	98.834
1.25	0.420	0.217	1.916	5.386	4.00	0.063	0.063	0.556	99.391
1.50	0.354	0.288	2.543	7.929	4.25	0.053	0.022	0.194	99.585
1.75	0.297	0.599	5.289	13.219	4.50	0.044	0.019	0.168	99.753
2.00	0.250	2.229	19.682	32.901	4.75	0.037	0.028	0.247	100.000
2.25	0.210	1.326	11.709	44.609					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.470	29.430	66.490	0.609	0.000
Unified Classification	0.000	0.000	5.386	93.448	1.166	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.67	-0.40	4.52
Folk Graphic Measures (PHI)	2.32	2.36	0.62	0.02	1.04
Grain Size (mm)	0.20	0.20			

A  
from

Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 50 cm Date 8-17-91 Profile Analysis Date 3-29-94 Analyst TB/RM  
 X Position : 30:14.47 Y Position : 87:40.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 45 cm  
 Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.172 Final Weight : 11.112 Deviation : 0.537 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.048	18.431	72.741
0.00	1.000	0.025	0.225	0.225	2.75	0.149	1.200	10.799	83.540
0.25	0.841	0.080	0.730	0.945	3.00	0.125	0.824	7.415	90.956
0.50	0.707	0.050	0.450	1.395	3.25	0.105	0.653	5.877	96.832
0.75	0.595	0.059	0.531	1.926	3.50	0.088	0.231	2.079	98.911
1.00	0.500	0.202	1.818	3.744	3.75	0.074	0.083	0.747	99.658
1.25	0.420	0.362	3.258	7.001	4.00	0.063	0.024	0.216	99.874
1.50	0.354	0.425	3.825	10.826	4.25	0.053	0.004	0.036	99.910
1.75	0.297	0.820	7.379	18.206	4.50	0.044	0.005	0.045	99.955
2.00	0.250	2.566	23.092	41.298	4.75	0.037	0.005	0.045	100.000
2.25	0.210	1.446	13.013	54.311					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.744	58.576	0.126
Unified Classification	0.000	0.000	7.001	92.657

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.17	0.62	-0.32	3.99
Folk Graphic Measures (PHI)	2.17	2.20	0.59	0.03	1.17
Grain Size (mm)	0.22	0.22			

*fine sand, med. silt, silt, clay, shaly*

Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 75 cm Date 8-17-91 Profile Analysis Date 3-29-94 Analyst TB/RM  
 X Position : 30:14.47 Y Position : 87:40.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 70 cm  
 Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.362 Final Weight : 11.303 Deviation : 0.519 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.771	15.668	75.608
0.00	1.000	0.011	0.097	0.097	2.75	0.149	1.027	9.086	84.694
0.25	0.841	0.061	0.540	0.637	3.00	0.125	0.712	6.299	90.994
0.50	0.707	0.062	0.549	1.186	3.25	0.105	0.625	5.530	96.523
0.75	0.595	0.139	1.230	2.415	3.50	0.088	0.237	2.097	98.620
1.00	0.500	0.375	3.318	5.733	3.75	0.074	0.090	0.796	99.416
1.25	0.420	0.586	5.184	10.917	4.00	0.063	0.031	0.274	99.690
1.50	0.354	0.618	5.468	16.385	4.25	0.053	0.009	0.080	99.770
1.75	0.297	1.036	9.166	25.551	4.50	0.044	0.013	0.115	99.885
2.00	0.250	2.562	22.667	48.217	4.75	0.037	0.013	0.115	100.000
2.25	0.210	1.325	11.723	59.940					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.733	51.473	0.310
Unified Classification	0.000	0.000	10.917	88.499

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.08	0.66	-0.04	3.43
Folk Graphic Measures (PHI)	2.04	2.08	0.65	0.07	1.21
Grain Size (mm)	0.24	0.24			

*fine sand, med. silt, silt, clay, shaly*

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 100 cm Date 8-17-91 Profile 3-29-94 Analyze Date TB/RM  
 X Position : 30114.47 Y Position : 87140.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 92 cm  
 Depth to Bottom of Sample : 105 cm  
 Comments : Thuy Bui

Start Weight :	11.440	Final Weight :	11.356	Deviation :	0.734	g
PHI	MM	Weight	Percent	Cumul	Percent	Cumul
-----	-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	74.067	
0.00	1.000	0.025	0.220	0.220	9.378	83.445
0.25	0.841	0.060	0.528	0.749	1.065	9.378
0.50	0.707	0.073	0.643	1.391	3.000	12.378
0.75	0.595	0.144	1.268	2.659	3.250	15.628
1.00	0.500	0.379	3.337	5.997	3.500	19.128
1.25	0.420	0.568	5.002	10.999	3.750	22.878
1.50	0.354	0.583	5.134	16.132	4.000	26.878
1.75	0.297	0.976	8.695	24.727	4.250	31.128
2.00	0.250	2.559	22.524	47.261	4.500	35.628
2.25	0.210	1.273	11.210	58.471	4.750	40.378

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
-----	-----	-----	-----
Wentworth Classification	0.000	5.997	41.265
Unified Classification	0.000	10.999	88.359

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
-----	-----	-----	-----	-----
2.06	2.10	0.68	-0.10	3.39
0.24	2.11	0.66	0.06	1.21

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

*fine sand, med. silt, silt, clay*  
*very fine sand, med. silt, silt, clay*

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 125 cm Date 8-17-91 Profile 3-29-94 Analyze Date TB/RM  
 X Position : 30114.47 Y Position : 87140.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 120 cm  
 Depth to Bottom of Sample : 130 cm  
 Comments : Thuy Bui

Start Weight :	11.188	Final Weight :	11.094	Deviation :	0.840	g
PHI	MM	Weight	Percent	Cumul	Percent	Cumul
-----	-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	16.521	74.356
0.00	1.000	0.029	0.261	0.261	1.089	9.816
0.25	0.841	0.080	0.721	0.983	3.000	12.816
0.50	0.707	0.090	0.793	1.704	3.250	16.066
0.75	0.595	0.138	1.244	2.948	3.500	19.566
1.00	0.500	0.367	3.308	6.256	3.750	23.316
1.25	0.420	0.511	4.508	10.764	4.000	27.316
1.50	0.354	0.502	4.486	15.250	4.250	31.566
1.75	0.297	0.922	8.252	23.502	4.500	36.066
2.00	0.250	2.456	22.138	45.617	4.750	40.816
2.25	0.210	1.321	11.907	57.524	5.000	45.816

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
-----	-----	-----	-----
Wentworth Classification	0.000	6.256	53.876
Unified Classification	0.000	10.862	88.652

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
-----	-----	-----	-----	-----
2.09	2.10	0.67	-0.24	3.52
0.24	2.11	0.65	0.01	1.23

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

*fine sand, med. silt, silt, clay*  
*very fine sand, med. silt, silt, clay*

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 150 cm Date 8-17-91 Profile 3-29-94 Analysis Date 3-29-94 Analyz TB/RM

X Position : 30.14.47 Y Position : 87.40.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 11.438 Final Weight : 11.371 Deviation : 0.586 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-0.25	1.189	0.000	0.000	0.000	0.000	2.50	0.177
0.00	1.000	0.037	0.325	0.325	74.971	2.75	0.149
0.25	0.841	0.062	0.545	0.871	83.818	3.00	0.125
0.50	0.707	0.064	0.563	1.433	90.238	3.25	0.105
0.75	0.595	0.143	1.258	2.691	95.937	3.50	0.088
1.00	0.500	0.454	3.993	6.684	98.382	3.75	0.074
1.25	0.420	0.617	5.426	12.110	99.158	4.00	0.063
1.50	0.354	0.630	5.540	17.650	99.701	4.25	0.053
1.75	0.297	1.048	9.216	26.867	99.807	4.50	0.044
2.00	0.250	2.559	22.505	49.371	99.903	4.75	0.037
2.25	0.210	1.229	10.808	60.179	100.000		

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
Wentworth Classification	0.000	6.684	42.688	50.330	0.299	0.000	0.000
Unified Classification	0.000	0.000	12.110	87.248	0.642	0.000	0.000

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.01	2.07	0.68	-0.06	3.33
Grain Size (mm)	0.25	0.24		0.07	1.18

fine sand, med. with silt, clay, some argillaceous, silt, s, ta

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 175 cm Date 8-17-91 Profile 4-20-94 Analysis Date 4-20-94 Analyz TB/RM

X Position : 30.14.47 Y Position : 87.40.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.946 Final Weight : 11.872 Deviation : 0.619 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
0.25	0.841	0.000	0.000	0.000	0.000	2.75	0.149
0.50	0.707	0.328	1.920	1.920	6.258	3.00	0.125
0.75	0.595	0.542	4.565	6.486	8.254	3.25	0.105
1.00	0.500	1.205	10.150	16.636	13.546	3.50	0.088
1.25	0.420	1.155	9.729	26.365	14.487	3.75	0.074
1.50	0.354	0.872	7.345	33.710	16.842	4.00	0.063
1.75	0.297	1.318	9.886	43.595	18.842	4.25	0.053
2.00	0.250	2.110	18.565	62.105	20.312	4.50	0.044
2.25	0.210	1.154	9.720	71.831	20.025	4.75	0.037
2.50	0.177	1.373	11.565	83.196	0.000		

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
Wentworth Classification	0.000	16.636	45.275	38.031	0.059	0.000	0.000
Unified Classification	0.000	0.000	26.365	73.265	0.371	0.000	0.000

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	1.84	1.79	0.75	-0.04	2.55
Grain Size (mm)	0.28	0.28		-0.04	0.89

Med. sand, med. silt, fine silt, clay, very light.

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 200 cm Date 8-17-91 Profile Analysis Date 3-25-94 TB/RM  
 X Position : 30114.47 Y Position : 87140.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 155 cm  
 Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.482 Final Weight : 11.396 Deviation : 0.749 %					
PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000		
0.00	1.000	0.040	0.351	0.000	
0.25	0.841	0.258	2.264	0.040	0.351
0.50	0.707	0.321	2.817	0.300	2.615
0.75	0.595	0.478	4.194	0.626	5.432
1.00	0.500	0.914	8.020	1.540	9.626
1.25	0.420	0.853	7.485	2.393	17.105
1.50	0.354	0.667	5.853	3.060	23.058
1.75	0.297	0.537	4.716	3.597	27.774
2.00	0.250	2.046	17.854	5.643	45.628
2.25	0.210	1.003	8.801	6.646	54.429

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	coarse	medium	fine			
Wentworth Classification	0.000	17.647	39.689	42.146	0.518	0.000			
Unified Classification	0.000	0.000	28.132	73.929	0.939	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)											
Polk Graphic Measures (PHI)											
Grain Size (mm)											
		1.90	1.88	0.84	0.00	2.71					
		0.27	0.27	0.86	-0.06	0.94					

Med. sand, med. silt,  
 near symmetrical, very light.

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 225 cm Date 8-17-91 Profile Analysis Date 3-29-94 TB/RM  
 X Position : 30114.47 Y Position : 87140.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 220 cm  
 Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 11.426 Final Weight : 11.329 Deviation : 0.849 %					
PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000		
0.00	1.000	0.113	0.997	0.000	
0.25	0.841	0.212	1.871	0.113	0.997
0.50	0.707	0.266	2.348	0.225	1.994
0.75	0.595	0.474	4.184	0.491	3.989
1.00	0.500	0.870	7.679	1.361	11.668
1.25	0.420	0.797	7.035	2.158	18.703
1.50	0.354	0.642	5.667	2.800	24.369
1.75	0.297	0.877	7.741	3.677	32.110
2.00	0.250	2.104	18.572	5.781	50.682
2.25	0.210	1.047	9.242	6.828	60.924

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	coarse	medium	fine			
Wentworth Classification	0.000	17.080	39.015	43.743	0.462	0.000			
Unified Classification	0.000	0.000	24.115	74.861	1.024	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)											
Polk Graphic Measures (PHI)											
Grain Size (mm)											
		1.92	1.86	0.84	-0.05	2.93					
		0.26	0.27	0.84	-0.08	0.97					

Med. sand, med. silt,  
 near symmetrical, very light.

## Offshore Alabama (ALA-91-09)

Offshore Alabama (ALA-91-09)

<b>Locality</b>	<b>Type</b>	<b>Sample</b>	<b>Date</b>	<b>Profile</b>	<b>Analysis Date</b>	<b>Analyst</b>
Shelf	Sand	275 cm	8-17-91		4-22-94	TB/RM
<b>X Position :</b>		<b>3014.47</b>		<b>Y Position :</b>		<b>87140.30</b>
<b>Elevation of Top of Core :</b>				<b>25.9'</b>		
<b>Length of Core :</b>				<b>417 cm</b>		
<b>Depth to Top of Sample :</b>				<b>270 cm</b>		
<b>Depth to Bottom of Sample :</b>				<b>280 cm</b>		

Locality	Type	Sample	Date	Profile	Analysis Date	Analysis
Shelf	Sand	250 cm	8-17-91		3-29-94	TB/RM
		X Position : 30114.47		Y Position : 87140.30		
		Elevation of Top of Core : 25.4'				
		Length of Core : 417 cm				
		Depth to Top of Sample : 245 cm				
		Depth to Bottom of Sample : 255 cm				

**Comments : Thuy Bul**

**Comments : Thuy Bui**

Start Weight :		11.501		Final Weight :		11.437		Deviation :		0.556	
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	PHI	MM	Weight	Percent
0.25	0.841	0.000	0.000	0.000	0.000	2.75	0.149	0.893	7.808	91.466	
0.50	0.707	0.289	2.527	2.527	2.527	3.00	0.125	0.435	3.978	95.445	
0.75	0.595	0.607	5.307	7.834	5.307	3.25	0.105	0.296	2.588	98.033	
1.00	0.500	1.272	11.122	18.956	11.122	3.50	0.088	0.110	0.962	98.994	
1.25	0.420	1.972	17.282	28.128	17.282	3.75	0.074	0.060	0.525	99.519	
1.50	0.354	2.657	23.445	33.873	23.445	4.00	0.063	0.035	0.306	99.825	
1.75	0.297	3.300	29.180	40.867	29.180	4.25	0.053	0.008	0.070	99.895	
2.00	0.250	3.848	33.658	46.025	33.658	4.50	0.044	0.006	0.052	99.948	
2.25	0.217	4.356	38.462	50.925	38.462	4.75	0.037	0.006	0.052	100.000	
2.50	0.177	4.831	42.531	55.511	42.531						
2.75	0.149	5.289	46.534	59.800	46.534						
3.00	0.125	5.734	50.468	63.858	50.468						
3.25	0.105	6.167	54.335	67.691	54.335						
3.50	0.088	6.589	58.144	71.310	58.144						
3.75	0.074	6.999	61.893	74.819	61.893						
4.00	0.063	7.400	65.593	78.219	65.593						
4.25	0.053	7.792	69.232	81.511	69.232						
4.50	0.044	8.175	72.811	84.696	72.811						
4.75	0.037	8.549	76.338	87.675	76.338						
5.00	0.030	8.913	79.809	90.548	79.809						
5.25	0.025	9.268	83.228	93.316	83.228						
5.50	0.020	9.614	86.597	95.981	86.597						
5.75	0.016	9.951	89.916	98.542	89.916						
6.00	0.012	10.280	93.196	100.000	93.196						

Start Weight :		11.034		Final Weight :		10.968		Deviation :		0.068	
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	PHI	MM	Weight	Percent
-0.25	1.189	0.000	0.000	2.50	0.177	1.543	14.068	88.743			
-0.00	1.000	0.000	0.000	2.75	0.149	0.899	8.049	80.743			
0.25	0.841	0.052	0.474	3.00	0.125	0.856	5.069	97.811			
0.50	0.707	0.249	1.504	3.25	0.105	0.428	1.902	97.811			
0.75	0.595	0.585	3.510	3.50	0.088	0.135	1.413	98.824			
1.00	0.500	0.884	6.238	3.75	0.074	0.062	0.565	99.389			
1.25	0.420	0.722	6.581	4.00	0.063	0.024	0.219	99.608			
1.50	0.354	0.561	5.597	4.25	0.053	0.010	0.091	99.699			
1.75	0.297	0.385	5.842	4.50	0.044	0.011	0.100	99.799			
2.00	0.250	0.224	21.189	4.75	0.037	0.022	0.201	100.000			
2.25	0.210	1.181	10.768								

Sample Content by Weight Percent :

**Sample Content by Weight Percent :**

	Gravel	coarse	Band medium	fine	Silt	Clay
Percentworth Classification	0.000	18.956	38.069	42.800	0.175	0.000
Unified Classification	0.000	0.000	28.138	71.391	0.481	0.000
Standard Statistics :						

	Gravel	Sand coarse medium fine	Silt	Clay
Mentworth Classification	0.000	13.995	41.411	44.201
Unified Classification	0.000	0.000	20.578	78.811
			0.611	0.000

Standard Statistics	Median	Mean	Dev.	Skew	Kurt
1	1.0000	1.0000	0.0000	0.0000	0.0000
2	1.0000	1.0000	0.0000	0.0000	0.0000
3	1.0000	1.0000	0.0000	0.0000	0.0000
4	1.0000	1.0000	0.0000	0.0000	0.0000
5	1.0000	1.0000	0.0000	0.0000	0.0000
6	1.0000	1.0000	0.0000	0.0000	0.0000
7	1.0000	1.0000	0.0000	0.0000	0.0000
8	1.0000	1.0000	0.0000	0.0000	0.0000
9	1.0000	1.0000	0.0000	0.0000	0.0000
10	1.0000	1.0000	0.0000	0.0000	0.0000
11	1.0000	1.0000	0.0000	0.0000	0.0000
12	1.0000	1.0000	0.0000	0.0000	0.0000
13	1.0000	1.0000	0.0000	0.0000	0.0000
14	1.0000	1.0000	0.0000	0.0000	0.0000
15	1.0000	1.0000	0.0000	0.0000	0.0000
16	1.0000	1.0000	0.0000	0.0000	0.0000
17	1.0000	1.0000	0.0000	0.0000	0.0000
18	1.0000	1.0000	0.0000	0.0000	0.0000
19	1.0000	1.0000	0.0000	0.0000	0.0000
20	1.0000	1.0000	0.0000	0.0000	0.0000
21	1.0000	1.0000	0.0000	0.0000	0.0000
22	1.0000	1.0000	0.0000	0.0000	0.0000
23	1.0000	1.0000	0.0000	0.0000	0.0000
24	1.0000	1.0000	0.0000	0.0000	0.0000
25	1.0000	1.0000	0.0000	0.0000	0.0000
26	1.0000	1.0000	0.0000	0.0000	0.0000
27	1.0000	1.0000	0.0000	0.0000	0.0000
28	1.0000	1.0000	0.0000	0.0000	0.0000
29	1.0000	1.0000	0.0000	0.0000	0.0000
30	1.0000	1.0000	0.0000	0.0000	0.0000
31	1.0000	1.0000	0.0000	0.0000	0.0000
32	1.0000	1.0000	0.0000	0.0000	0.0000
33	1.0000	1.0000	0.0000	0.0000	0.0000
34	1.0000	1.0000	0.0000	0.0000	0.0000
35	1.0000	1.0000	0.0000	0.0000	0.0000
36	1.0000	1.0000	0.0000	0.0000	0.0000
37	1.0000	1.0000	0.0000	0.0000	0.0000
38	1.0000	1.0000	0.0000	0.0000	0.0000
39	1.0000	1.0000	0.0000	0.0000	0.0000
40	1.0000	1.0000	0.0000	0.0000	0.0000
41	1.0000	1.0000	0.0000	0.0000	0.0000
42	1.0000	1.0000	0.0000	0.0000	0.0000
43	1.0000	1.0000	0.0000	0.0000	0.0000
44	1.0000	1.0000	0.0000	0.0000	0.0000
45	1.0000	1.0000	0.0000	0.0000	0.0000
46	1.0000	1.0000	0.0000	0.0000	0.0000
47	1.0000	1.0000	0.0000	0.0000	0.0000
48	1.0000	1.0000	0.0000	0.0000	0.0000
49	1.0000	1.0000	0.0000	0.0000	0.0000
50	1.0000	1.0000	0.0000	0.0000	0.0000
51	1.0000	1.0000	0.0000	0.0000	0.0000
52	1.0000	1.0000	0.0000	0.0000	0.0000
53	1.0000	1.0000	0.0000	0.0000	0.0000
54	1.0000	1.0000	0.0000	0.0000	0.

**Standard Statistics :**

Method of Moments (PHI)	Folk Graphic Measures (PHI)	Grain Size (mm)
0.075	0.075	0.075
0.15	0.15	0.15
0.3	0.3	0.3
0.6	0.6	0.6
1.2	1.2	1.2
2.5	2.5	2.5
5.0	5.0	5.0
10.0	10.0	10.0
20.0	20.0	20.0
40.0	40.0	40.0
80.0	80.0	80.0
100.0	100.0	100.0

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.91	0.76	-0.16	3.15
Graphic Measures (PHI)	1.94	1.88	0.77	-0.10	1.10
Grain Size (mm)	0.36	0.27			

Med. sand, med. intd,  
near apertures, very 6, to.

Med. sand, med. sorted,  
crash-splined, 1 qt. 1.5 pts.



## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 300 cm Date 8-17-91 Profile Analysis Date 4-27-94 TB/RM  
 X Position : 30114.47 Y Position : 87140.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 285 cm  
 Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 10.983				Final Weight : 10.918				Deviation : 0.592 %			
PHI	MM	Weight	Percent	Cumul	PHI	MM	Weight	Percent	Cumul		
				Percent					Percent		
0.25	0.841	0.000	0.000	0.000	2.75	0.149	1.189	0.890	83.074		
0.50	0.707	0.182	1.667	1.667	3.00	0.125	0.797	7.300	90.374		
0.75	0.595	0.442	4.048	5.715	3.25	0.105	0.462	4.232	94.605		
1.00	0.500	1.014	9.387	15.033	3.50	0.088	0.198	1.814	96.419		
1.25	0.420	0.867	7.941	22.944	3.75	0.074	0.188	1.722	98.141		
1.50	0.354	0.560	5.129	28.073	4.00	0.063	0.124	1.136	99.276		
1.75	0.297	0.632	5.789	33.862	4.25	0.053	0.028	0.256	99.532		
2.00	0.250	1.377	12.612	46.474	4.50	0.044	0.020	0.183	99.716		
2.25	0.210	1.011	9.260	55.734	4.75	0.037	0.031	0.284	100.000		
2.50	0.177	1.796	16.450	72.184							

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine			
Wentworth Classification	0.000	15.003	31.471	52.803	0.724	0.000	
Unified Classification	0.000	0.000	22.944	75.197	1.859	0.000	

Standard Statistics :

Method of Moments (PHI)		Median		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)	Grain Size (mm)										
		2.10	1.97	0.83	-0.14	0.05	2.62				
		0.23	0.25				0.88				

*fine sand, med. silt, med. clay, some silt, med. silt, med. clay.*

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 325 cm Date 8-17-91 Profile Analysis Date 4-27-94 TB/RM  
 X Position : 30114.47 Y Position : 87140.30  
 Elevation of Top of Core : 25.5'  
 Length of Core : 417 cm  
 Depth to Top of Sample : 320 cm  
 Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 5.608		Final Weight : 5.568		Deviation : 0.713 %			
PHI	MM	Weight Percent	Cumul Percent	PHI	MM	Weight Percent	Cumul Percent
0.25	0.841	0.000	0.000	2.75	0.149	1.041	18.696
0.50	0.707	0.020	0.359	3.00	0.125	0.732	13.147
0.75	0.595	0.031	0.597	3.25	0.105	0.935	9.608
1.00	0.500	0.067	1.203	3.50	0.088	0.313	5.621
1.25	0.420	0.061	1.096	3.75	0.074	0.294	5.280
1.50	0.354	0.047	0.844	4.00	0.063	0.171	3.071
1.75	0.297	0.067	1.203	4.25	0.053	0.028	0.503
2.00	0.250	0.324	5.819	4.50	0.044	0.020	0.359
2.25	0.210	0.516	9.267	4.75	0.037	0.038	0.682
2.50	0.177	1.263	22.683				100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine			
Wentworth Classification	0.000	2.119	8.962	87.374	1.545	0.000	
Unified Classification	0.000	0.000	3.215	92.170	4.616	0.000	

Standard Statistics :

Method of Moments (PHI)		Median		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)	Grain Size (mm)										
		2.59	2.65	0.58	0.14	1.19					
		0.17	0.16								

*fine sand, med. silt, med. clay, some silt, med. silt, med. clay.*

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 350 cm Date 8-17-91 Profile Analysis Date Analyz 4-27-94 TB/RM

X Position : 30114.47 Y Position : 87140.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 11.119 Final Weight : 11.048 Deviation : 0.639 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-----	-----	-----	-----	-----	-----	-----	-----
0.25	0.841	0.000	0.000	0.000	0.000	2.75	0.149
0.50	0.707	0.033	0.299	0.299	0.299	3.00	0.125
0.75	0.595	0.077	0.697	0.996	0.996	3.25	0.105
1.00	0.500	0.174	1.575	2.571	2.571	3.50	0.088
1.25	0.420	0.150	1.358	3.928	3.928	3.75	0.074
1.50	0.354	0.125	1.131	5.060	5.060	4.00	0.063
1.75	0.297	0.189	1.711	6.770	6.770	4.25	0.053
2.00	0.250	0.798	7.223	13.993	13.993	4.50	0.044
2.25	0.210	0.868	7.857	21.850	21.850	4.75	0.037
2.50	0.177	2.123	19.216	41.066	41.066		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	fine	coarse	fine				
Wentworth Classification		0.000	2.571	11.423	84.975	1.032	0.000		
Unified Classification		0.000	0.000	3.928	90.043	6.028	0.000		

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)											
Folk Graphic Measures (PHI)											
Grain Size (mm)											
		2.64	2.69	0.68	0.06	1.16					
		0.16	0.16								

fine sand, mod. well sorted,  
poorly skewed, silt, clay.

## Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 375 cm Date 8-17-91 Profile Analysis Date Analyz 4-27-94 TB/RM

X Position : 30114.47 Y Position : 87140.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 11.046 Final Weight : 10.992 Deviation : 0.489 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-----	-----	-----	-----	-----	-----	-----	-----
0.25	0.841	0.000	0.000	0.000	0.000	2.75	0.149
0.50	0.707	0.022	0.200	0.200	0.200	3.00	0.125
0.75	0.595	0.061	0.555	0.755	0.755	3.25	0.105
1.00	0.500	0.113	1.028	1.783	1.783	3.50	0.088
1.25	0.420	0.095	0.864	2.647	2.647	3.75	0.074
1.50	0.354	0.083	0.755	3.402	3.402	4.00	0.063
1.75	0.297	0.113	1.028	4.430	4.430	4.25	0.053
2.00	0.250	0.166	1.519	5.949	5.949	4.50	0.044
2.25	0.210	0.435	4.867	12.627	12.627	4.75	0.037
2.50	0.177	2.632	23.945	36.572	36.572		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	fine	coarse	fine				
Wentworth Classification		0.000	1.783	9.977	91.603	0.637	0.000		
Unified Classification		0.000	0.000	2.647	94.232	3.120	0.000		

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)											
Folk Graphic Measures (PHI)											
Grain Size (mm)											
		2.62	2.66	0.47	0.12	1.43					
		0.16	0.16								

fine sand, mod. well sorted,  
strongly skewed, silt, clay.

Offshore Alabama (ALA-91-09)

Locality Shelf Type Sand Sample 400 cm Date 8-17-91 Profile Analysis Date 4-27-94 Analyst TB/RM

X Position : 30:14.47 Y Position : 87:40.30

Elevation of Top of Core : 25.5'  
Length of Core : 417 cm  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bui

Start Weight : 11.049 Final Weight : 10.968 Deviation : 0.733 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.25	0.841	0.000	0.000	0.000	2.75	0.149	2.156	19.657	48.824
0.50	0.707	0.028	0.255	0.255	3.00	0.125	2.259	20.596	69.420
0.75	0.595	0.068	0.620	0.875	3.25	0.105	1.725	15.728	85.148
1.00	0.500	0.102	0.930	1.805	3.50	0.088	0.630	5.744	90.892
1.25	0.420	0.071	0.647	2.453	3.75	0.074	0.526	4.796	95.687
1.50	0.354	0.064	0.584	3.036	4.00	0.063	0.345	3.146	98.833
1.75	0.297	0.096	0.875	3.911	4.25	0.053	0.067	0.611	99.444
2.00	0.250	0.462	4.212	8.124	4.50	0.044	0.021	0.191	99.635
2.25	0.210	0.561	5.115	13.239	4.75	0.037	0.040	0.365	100.000
2.50	0.177	1.747	15.928	29.167					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.805	6.318	90.709
Unified Classification	0.000	0.000	2.453	97.235

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.75	0.59	-0.54	5.09
Folk Graphic Measures (PHI)	2.76	2.76	0.52	-0.00	1.19
Grain Size (mm)	0.15	0.15			

*fine sand, med. well sorted,  
strongly coarse-sand, ext. d. to.*

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 5 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analyst TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 12.740 Final Weight : 12.687 Deviation : 0.416 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.085	8.552	22.125
0.00	1.000	0.000	0.000	0.000	2.00	0.250	3.460	27.272	49.397
0.25	0.841	0.058	0.457	0.457	2.25	0.210	1.930	15.212	64.609
0.50	0.707	0.089	0.702	1.159	2.50	0.177	2.842	22.401	87.010
0.75	0.595	0.152	1.198	2.357	2.75	0.149	1.132	8.923	95.933
1.00	0.500	0.333	2.625	4.981	3.00	0.125	0.396	3.121	99.054
1.25	0.420	0.812	4.036	9.017	3.25	0.105	0.099	0.780	99.834
1.50	0.354	0.578	4.856	13.573	3.50	0.088	0.021	0.166	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.981	44.416	50.603
Unified Classification	0.000	0.000	9.017	90.983

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.00	0.51	-0.77	4.08
Folk Graphic Measures (PHI)	2.01	2.02	0.48	-0.08	1.20
Grain Size (mm)	0.25	0.25			

Offshore Alabama (ALA-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 25 cm 8-17-91 TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 12.064 Final Weight : 12.040 Deviation : 0.199 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.769	6.387	12.990
0.00	1.000	0.091	0.756	0.756	2.00	0.250	3.189	26.487	39.477
0.25	0.841	0.032	0.266	1.022	2.25	0.210	1.905	15.822	55.299
0.50	0.707	0.022	0.183	1.204	2.50	0.177	3.316	27.542	82.841
0.75	0.595	0.037	0.307	1.512	2.75	0.149	1.309	10.872	93.713
1.00	0.500	0.107	0.889	2.400	3.00	0.125	0.555	4.610	98.322
1.25	0.420	0.208	1.728	4.128	3.25	0.105	0.158	1.312	99.635
1.50	0.354	0.298	2.475	6.603	3.50	0.088	0.044	0.365	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.400	37.076	60.523	0.000	0.000
Unified Classification	0.000	0.000	4.128	95.872	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.13	0.48	-1.17	7.02
Folk Graphic Measures (PHI)	2.17	2.16	0.41	-0.08	1.07
Grain Size (mm)	0.22	0.23			

Offshore Alabama (ALA-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 50 cm 8-17-91 TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.190 Final Weight : 12.156 Deviation : 0.279 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.854	7.025	16.634
0.00	1.000	0.290	2.386	2.386	2.00	0.250	3.151	25.921	42.555
0.25	0.841	0.007	0.058	2.443	2.25	0.210	1.857	15.276	57.832
0.50	0.707	0.020	0.165	2.608	2.50	0.177	3.043	25.033	82.864
0.75	0.595	0.039	0.321	2.929	2.75	0.149	1.328	10.925	93.789
1.00	0.500	0.137	1.127	4.056	3.00	0.125	0.536	4.409	98.198
1.25	0.420	0.292	2.402	6.458	3.25	0.105	0.166	1.366	99.564
1.50	0.354	0.383	3.151	9.608	3.50	0.088	0.053	0.436	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.056	38.500	57.445	0.000	0.000
Unified Classification	0.000	0.000	6.458	93.542	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.07	0.56	-1.47	7.15
Folk Graphic Measures (PHI)	2.12	2.13	0.46	-0.09	1.19
Grain Size (mm)	0.23	0.24			

## Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 75 cm Date 8-17-91 Profile Analysis Date 8-19-93 Analyze SA/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 12.064 Final Weight : 12.004 Deviation : 0.497 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.75	1.682	0.000	0.000	0.000	45.960	2.00	0.250	2.892	24.092	45.960	
-0.50	1.414	0.187	1.558	1.558	15.303	2.25	0.210	1.837	15.303	61.263	
-0.25	1.189	0.042	0.350	1.908	22.731	2.50	0.177	2.731	22.731	84.014	
0.00	1.000	0.050	0.417	2.324	2.750	2.75	0.149	1.200	9.957	94.010	
0.25	0.841	0.076	0.633	2.957	3.000	3.00	0.125	0.505	4.207	98.217	
0.50	0.707	0.086	0.716	3.674	3.250	3.25	0.105	0.169	1.408	99.625	
0.75	0.595	0.131	1.091	4.765	3.500	3.50	0.088	0.027	0.225	99.850	
1.00	0.500	0.376	3.132	10.538	3.750	3.75	0.074	0.011	0.092	99.942	
1.25	0.420	0.448	3.732	14.270	4.000	4.00	0.063	0.005	0.042	99.983	
1.50	0.354	0.448	3.732	14.270	4.250	4.25	0.053	0.002	0.017	100.000	
1.75	0.297	0.912	7.597	21.868							

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Montworth Classification	0.000	7.406	38.554	54.024	0.017	0.000	
Unified Classification	0.000	0.000	10.518	89.404	0.058	0.000	

Standard Statistics :

Method of Moments (PHI)	Mean	Dev.	Skew	Kurt
Polk Graphic Measures (PHI)	2.07	1.99	-1.54	6.84
Grain Size (mm)	0.24	0.54	-0.18	1.35

## Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 100 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analyze TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 12.367 Final Weight : 12.160 Deviation : 0.057 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	1.101	1.75	0.297	1.101	8.908	18.495	
0.00	1.000	0.044	0.356	0.356	2.000	2.00	0.250	3.738	30.243	48.738	
0.25	0.841	0.037	0.299	0.655	2.250	2.25	0.210	1.712	13.851	62.589	
0.50	0.707	0.088	0.712	1.367	2.500	2.50	0.177	3.002	24.288	86.877	
0.75	0.595	0.139	1.125	2.492	2.750	2.75	0.149	1.033	8.358	95.235	
1.00	0.500	0.180	1.456	3.948	3.000	3.00	0.125	0.433	3.503	98.738	
1.25	0.420	0.277	2.241	6.189	3.250	3.25	0.105	0.123	0.995	99.733	
1.50	0.354	0.420	3.398	9.587	3.500	3.50	0.088	0.033	0.267	100.000	

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Montworth Classification	0.000	3.948	44.790	51.262	0.000	0.000	
Unified Classification	0.000	0.000	6.189	93.811	0.000	0.000	

Standard Statistics :

Method of Moments (PHI)	Mean	Dev.	Skew	Kurt
Polk Graphic Measures (PHI)	2.02	2.04	-0.93	5.36
Grain Size (mm)	0.25	2.06	0.44	1.16

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 125 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analyz TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.489 Final Weight : 12.429 Deviation : 0.480 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.132	9.108	22.222
0.00	1.000	0.017	0.137	0.137	2.00	0.250	1.363	27.058	49.280
0.25	0.841	0.061	0.491	0.628	2.25	0.210	1.870	15.045	64.325
0.50	0.707	0.055	0.443	1.070	2.50	0.177	2.800	22.528	86.853
0.75	0.595	0.118	0.949	2.019	2.75	0.149	1.098	8.834	95.688
1.00	0.500	0.304	2.446	4.465	3.00	0.125	0.408	3.283	98.970
1.25	0.420	0.506	4.071	8.536	3.25	0.105	0.104	0.837	99.807
1.50	0.354	0.569	4.578	13.114	3.50	0.088	0.024	0.193	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.465	44.815	50.720	0.000	0.000
Unified Classification	0.000	0.000	8.536	91.464	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.01	0.51	-0.77	4.29
Folk Graphic Measures (PHI)	2.01	2.02	0.48	-0.06	1.17
Grain Size (mm)	0.25	0.25			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 150 cm Date 8-17-91 Profile Analysis Date 8-19-93 Analyz SA/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 12.692 Final Weight : 12.637 Deviation : 0.433 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	3.203	25.346	46.957
-0.50	1.414	0.210	1.662	1.662	2.25	0.210	1.917	15.170	62.127
-0.25	1.189	0.043	0.340	2.002	2.50	0.177	2.931	23.194	85.321
0.00	1.000	0.038	0.301	2.303	2.75	0.149	1.234	9.765	95.086
0.25	0.841	0.047	0.372	2.675	3.00	0.125	0.460	3.640	98.726
0.50	0.707	0.076	0.601	3.276	3.25	0.105	0.132	1.045	99.771
0.75	0.595	0.114	0.902	4.178	3.50	0.088	0.018	0.142	99.913
1.00	0.500	0.299	2.366	6.544	3.75	0.074	0.006	0.047	99.960
1.25	0.420	0.420	3.324	9.868	4.00	0.063	0.003	0.024	99.984
1.50	0.354	0.499	3.949	13.817	4.25	0.053	0.002	0.016	100.000
1.75	0.297	0.985	7.795	21.611					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	6.544	40.413	53.027	0.016	0.000
Unified Classification	0.000	0.000	9.868	90.093	0.040	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.63	-1.66	7.50
Folk Graphic Measures (PHI)	2.05	2.04	0.52	-0.16	1.29
Grain Size (mm)	0.24	0.25			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 175 cm Date 8-17-91 Profile Analysis Date 8-25-93 Analyz TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 12.143 Final Weight : 12.112 Deviation : 0.255 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	0.473	3.905	11.625
-0.25	1.189	0.097	0.801	0.801	1.75	0.297	0.948	7.827	19.452
0.00	1.000	0.017	0.140	0.941	2.00	0.250	3.096	25.561	45.013
0.25	0.841	0.031	0.256	1.197	2.25	0.210	1.883	15.547	60.560
0.50	0.707	0.042	0.347	1.544	2.50	0.177	2.922	24.125	84.685
0.75	0.595	0.085	0.702	2.246	2.75	0.149	1.240	10.238	94.922
1.00	0.500	0.250	2.064	4.310	3.00	0.125	0.458	3.781	98.704
1.25	0.420	0.413	3.410	7.720	3.25	0.105	0.157	1.296	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.310	40.703	54.987	0.000	0.000
Unified Classification	0.000	0.000	7.720	92.280	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.04	0.53	-1.25	6.34
Folk Graphic Measures (PHI)	2.08	2.07	0.47	-0.12	1.17
Grain Size (mm)	0.24	0.24			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 200 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analyz TD/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 12.508 Final Weight : 12.466 Deviation : 0.336 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.128	9.049	24.908
0.00	1.000	0.180	1.444	1.444	2.00	0.250	3.383	27.138	52.046
0.25	0.841	0.058	0.465	1.909	2.25	0.210	1.734	13.910	65.955
0.50	0.707	0.064	0.513	2.423	2.50	0.177	2.667	21.394	87.350
0.75	0.595	0.125	1.003	3.425	2.75	0.149	1.071	8.591	95.941
1.00	0.500	0.376	3.016	6.442	3.00	0.125	0.377	3.024	98.965
1.25	0.420	0.567	4.548	10.990	3.25	0.105	0.100	0.802	99.767
1.50	0.354	0.607	4.869	15.859	3.50	0.088	0.029	0.233	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	6.442	45.604	47.954	0.000	0.000
Unified Classification	0.000	0.000	10.990	89.010	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.96	0.57	-1.05	4.99
Folk Graphic Measures (PHI)	1.98	1.98	0.52	-0.10	1.25
Grain Size (mm)	0.25	0.26			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 225 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analysis Date 8-17-93 Analyz TH/RM

X Position : 30:06.79 Y Position : 87:19.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 12.165 Final Weight : 12.135 Deviation : 0.247 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.031	8.496	24.821
0.00	1.000	0.151	1.244	1.244	2.00	0.250	3.175	26.164	50.985
0.25	0.841	0.056	0.461	1.706	2.25	0.210	1.732	14.273	65.258
0.50	0.707	0.059	0.486	2.192	2.50	0.177	2.676	22.052	87.309
0.75	0.595	0.138	1.137	3.329	2.75	0.149	1.018	8.389	95.698
1.00	0.500	0.389	3.206	6.535	3.00	0.125	0.396	3.263	98.962
1.25	0.420	0.579	4.771	11.306	3.25	0.105	0.101	0.832	99.794
1.50	0.354	0.609	5.019	16.325	3.50	0.088	0.025	0.206	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.535	44.450	49.015	0.000	0.000
Unified Classification	0.000	0.000	11.306	88.694	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.96	0.57	-1.01	4.77
Folk Graphic Measures (PHI)	1.99	1.98	0.52	-0.12	1.24
Grain Size (mm)	0.25	0.26			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 250 cm Date 8-17-91 Profile Analysis Date 8-19-93 Analysis Date 8-19-93 Analyz SA/RM

X Position : 30:06.79 Y Position : 87:19.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 12.342 Final Weight : 12.289 Deviation : 0.429 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	3.136	25.519	47.156
-0.50	1.414	0.152	1.237	1.237	2.25	0.210	1.828	14.875	62.031
-0.25	1.189	0.022	0.179	1.416	2.50	0.177	2.867	23.330	85.361
0.00	1.000	0.034	0.277	1.693	2.75	0.149	1.188	9.667	95.028
0.25	0.841	0.040	0.325	2.018	3.00	0.125	0.454	3.694	98.722
0.50	0.707	0.053	0.431	2.449	3.25	0.105	0.129	1.050	99.772
0.75	0.595	0.112	0.911	3.361	3.50	0.088	0.018	0.146	99.919
1.00	0.500	0.309	2.514	5.875	3.75	0.074	0.005	0.041	99.959
1.25	0.420	0.455	3.702	9.578	4.00	0.063	0.003	0.024	99.984
1.50	0.354	0.521	4.240	13.817	4.25	0.053	0.002	0.016	100.000
1.75	0.297	0.961	7.820	21.637					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	5.875	41.281	52.828	0.016	0.000
Unified Classification	0.000	0.000	9.578	90.382	0.041	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.00	0.60	-1.51	7.29
Folk Graphic Measures (PHI)	2.05	2.03	0.51	-0.14	1.24
Grain Size (mm)	0.24	0.25			



Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 275 cm Date 8-17-91 Profile Analysis Date 8-25-93 Analyz TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 12.277 Final Weight : 12.251 Deviation : 0.212 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	0.475	3.877	13.330
-0.25	1.189	0.225	1.837	1.837	1.75	0.297	0.976	7.967	21.296
0.00	1.000	0.022	0.180	2.016	2.00	0.250	3.139	25.622	46.919
0.25	0.841	0.041	0.335	2.351	2.25	0.210	1.880	15.346	62.264
0.50	0.707	0.050	0.408	2.759	2.50	0.177	2.934	23.949	86.213
0.75	0.595	0.100	0.816	3.575	2.75	0.149	1.182	9.648	95.862
1.00	0.500	0.291	2.375	5.951	3.00	0.125	0.403	3.290	99.151
1.25	0.420	0.429	3.502	9.452	3.25	0.105	0.104	0.849	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	5.951	40.968	53.081	0.000	0.000
Unified Classification	0.000	0.000	9.452	90.548	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.59	-1.55	6.90
Folk Graphic Measures (PHI)	2.05	2.04	0.50	-0.15	1.26
Grain Size (mm)	0.24	0.25			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 300 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analyz TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 12.270 Final Weight : 12.248 Deviation : 0.179 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.001	8.173	20.926
0.00	1.000	0.111	0.906	0.906	2.00	0.250	3.283	26.804	47.730
0.25	0.841	0.049	0.400	1.306	2.25	0.210	1.752	14.304	62.035
0.50	0.707	0.055	0.449	1.755	2.50	0.177	2.823	23.049	85.083
0.75	0.595	0.103	0.841	2.596	2.75	0.149	1.245	10.165	95.248
1.00	0.500	0.281	2.294	4.891	3.00	0.125	0.434	3.543	98.792
1.25	0.420	0.447	3.650	8.540	3.25	0.105	0.114	0.931	99.722
1.50	0.354	0.516	4.213	12.753	3.50	0.088	0.034	0.278	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	4.891	42.840	52.270	0.000	0.000
Unified Classification	0.000	0.000	8.540	91.460	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.02	0.54	-1.04	5.22
Folk Graphic Measures (PHI)	2.04	2.04	0.49	-0.09	1.10
Grain Size (mm)	0.24	0.25			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 125 cm Date 8-17-91 Profile Analysis Date 8-25-93 Analyz TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 12.306 Final Weight : 12.265 Deviation : 0.333 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	0.502	4.093	15.116
-0.25	1.189	0.291	2.373	2.373	1.75	0.297	0.984	8.023	23.139
0.00	1.000	0.046	0.375	2.748	2.00	0.250	3.031	24.713	47.852
0.25	0.841	0.044	0.359	3.106	2.25	0.210	1.762	14.366	62.218
0.50	0.707	0.054	0.440	3.547	2.50	0.177	2.825	23.033	85.251
0.75	0.595	0.105	0.856	4.403	2.75	0.149	1.196	9.751	95.002
1.00	0.500	0.315	2.568	6.971	3.00	0.125	0.452	3.685	98.687
1.25	0.420	0.497	4.052	11.023	3.25	0.105	0.161	1.313	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	6.971	40.881	52.148	0.000	0.000
Unified Classification	0.000	0.000	11.023	88.977	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.97	0.63	-1.50	6.33
Folk Graphic Measures (PHI)	2.04	2.02	0.53	-0.16	1.28
Grain Size (mm)	0.24	0.26			

Offshore Alabama (ALA-91-12)

Locality Shelf Type Sand Sample 350 cm Date 8-17-91 Profile Analysis Date 8-17-93 Analyz TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 12.133 Final Weight : 12.118 Deviation : 0.124 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.085	8.954	23.114
0.00	1.000	0.004	0.033	0.033	2.00	0.250	3.187	26.300	49.414
0.25	0.841	0.028	0.231	0.264	2.25	0.210	1.772	14.623	64.037
0.50	0.707	0.048	0.396	0.660	2.50	0.177	2.679	22.108	86.145
0.75	0.595	0.122	1.007	1.667	2.75	0.149	1.162	9.589	95.734
1.00	0.500	0.359	2.963	4.629	3.00	0.125	0.396	3.268	99.001
1.25	0.420	0.540	4.456	9.086	3.25	0.105	0.098	0.809	99.810
1.50	0.354	0.615	5.075	14.161	3.50	0.088	0.023	0.190	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.629	44.785	50.586	0.000	0.000
Unified Classification	0.000	0.000	9.086	90.914	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.01	0.51	-0.63	3.66
Folk Graphic Measures (PHI)	2.01	2.01	0.49	-0.07	1.16
Grain Size (mm)	0.25	0.25			

Offshore Alabama (ALA-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 375 cm 8-17-91 8-19-93 SA/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bui

Start Weight : 12.209 Final Weight : 12.075 Deviation : 1.098 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	2.965	24.555	53.159
-0.50	1.414	0.759	6.286	6.286	2.25	0.210	1.654	13.698	66.857
-0.25	1.189	0.015	0.124	6.410	2.50	0.177	2.522	20.886	87.743
0.00	1.000	0.016	0.133	6.542	2.75	0.149	0.984	8.149	95.892
0.25	0.841	0.050	0.414	6.957	3.00	0.125	0.357	2.957	98.849
0.50	0.707	0.060	0.497	7.453	3.25	0.105	0.098	0.812	99.660
0.75	0.595	0.135	1.118	8.571	3.50	0.088	0.018	0.149	99.810
1.00	0.500	0.389	3.222	11.793	3.75	0.074	0.009	0.075	99.884
1.25	0.420	0.486	4.025	15.818	4.00	0.063	0.007	0.058	99.942
1.50	0.354	0.562	4.654	20.472	4.25	0.053	0.007	0.058	100.000
1.75	0.297	0.982	8.133	28.605					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	11.793	41.366	46.783	0.058	0.000
Unified Classification	0.000	0.000	15.818	84.066	0.116	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.82	0.82	-1.61	5.67
Folk Graphic Measures (PHI)	1.97	1.89	0.79	-0.36	1.89
Grain Size (mm)	0.26	0.28			

Offshore Alabama (ALA-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 400 cm 8-17-91 8-25-93 TB/RM

X Position : 30:06.79 Y Position : 87:39.87

Elevation of Top of Core : 53.5  
Length of Core : 519 cm  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bui

Start Weight : 12.313 Final Weight : 12.221 Deviation : 0.747 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	0.519	4.247	13.820
-0.25	1.189	0.061	0.499	0.499	1.75	0.297	0.967	7.913	21.733
0.00	1.000	0.016	0.131	0.630	2.00	0.250	2.987	24.442	46.175
0.25	0.841	0.037	0.303	0.933	2.25	0.210	1.802	14.745	60.920
0.50	0.707	0.000	0.000	0.933	2.50	0.177	2.895	23.689	84.608
0.75	0.595	0.126	1.031	1.964	2.75	0.149	1.255	10.269	94.878
1.00	0.500	0.385	3.150	5.114	3.00	0.125	0.470	3.846	98.724
1.25	0.420	0.545	4.460	9.574	3.25	0.105	0.156	1.276	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	5.114	41.060	53.825	0.000	0.000
Unified Classification	0.000	0.000	9.574	90.426	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.02	0.54	-0.99	5.00
Folk Graphic Measures (PHI)	2.06	2.04	0.50	-0.14	1.18
Grain Size (mm)	0.24	0.25			

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
 8-17-91 5 cm 8-17-91 4-26-94 TB/RM

X Position : 29:58.65 Y Position : 87:39.79

Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 0 cm  
 Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

PHI	MM	Weight	Percent	Cumul	Percent	Weight	Percent	Deviation	0.283 %
0.50	0.707	0.000	0.000	0.000	0.000	2.265	20.058	37.868	
0.75	0.595	0.007	0.062	0.062	0.062	2.713	24.026	61.893	
1.00	0.500	0.006	0.053	0.115	0.115	2.629	23.626	85.520	
1.25	0.420	0.011	0.097	0.213	0.213	2.459	21.977	107.497	
1.50	0.354	0.012	0.106	0.319	0.319	2.297	20.680	128.177	
1.75	0.297	0.022	0.195	0.514	0.514	2.151	19.429	147.606	
2.00	0.250	0.134	1.187	1.700	1.700	2.035	18.294	165.900	
2.25	0.210	0.249	2.205	3.905	3.905	1.938	17.356	183.256	
2.50	0.177	1.570	13.904	17.809	17.809	1.852	16.506	200.000	

## Sample Content by Weight Percent :

Gravel	coarse	medium	fine	Silt	Clay
0.000	0.115	1.585	97.848	0.452	0.000
0.000	0.000	0.213	97.697	2.090	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.88	2.86	0.39	0.00	0.97
0.14	0.14			

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

fine sand, well sorted,  
 near symmetrical, silt. 3 pto.

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
 8-17-91 25 cm 8-17-91 4-25-94 TB/RM

X Position : 29:58.65 Y Position : 87:39.79

Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 20 cm  
 Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

PHI	MM	Weight	Percent	Cumul	Percent	Weight	Percent	Deviation	0.143 %
0.50	0.707	0.000	0.000	0.000	0.000	2.75	0.149	18.917	43.033
0.75	0.595	0.009	0.080	0.080	0.080	3.00	0.125	2.405	21.481
1.00	0.500	0.008	0.071	0.152	0.152	3.25	0.105	2.518	22.490
1.25	0.420	0.013	0.116	0.268	0.268	3.50	0.088	0.819	7.315
1.50	0.354	0.017	0.152	0.420	0.420	3.75	0.074	0.410	3.841
1.75	0.297	0.028	0.250	0.670	0.670	4.00	0.063	0.173	1.545
2.00	0.250	0.157	1.402	2.072	2.072	4.25	0.053	0.023	0.205
2.25	0.210	0.291	2.599	4.671	4.671	4.50	0.044	0.005	0.045
2.50	0.177	2.177	19.444	24.116	24.116	4.75	0.037	0.005	0.045

## Sample Content by Weight Percent :

Gravel	coarse	medium	fine	Silt	Clay
0.000	0.152	1.920	97.633	0.295	0.000
0.000	0.000	0.268	97.892	1.840	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.83	2.81	0.40	-0.07	4.12
0.14	0.14			

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

fine sand, well sorted,  
 near symmetrical, silt. 3 pto.

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 50 cm Date 8-17-91 Profile 4-26-94 TB/RM  
 X Position : 29:58.65 Y Position : 87:39.79  
 Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 45 cm  
 Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 11.031 Final Weight : 11.014 Deviation : 0.154 %	
PHI	MH
Weight Percent	Cumul Percent
0.50 0.707	0.000 0.000
0.75 0.595	0.005 0.045
1.00 0.500	0.010 0.136
1.25 0.420	0.018 0.163
1.50 0.354	0.020 0.182
1.75 0.297	0.037 0.336
2.00 0.250	0.216 1.961
2.25 0.210	0.415 3.768
2.50 0.177	1.934 17.559

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine	medium	fine	medium
Wentworth Classification	0.000	0.136	3.642	96.967	0.254	0.000	0.000
Unified Classification	0.000	0.000	0.300	98.447	1.253	0.000	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.78	2.78	0.41	-0.12	4.45
0.15	2.78	0.39	0.01	0.96

Method of Moments (PHI)  
 Polk Graphic Measures (PHI)  
 Grain Size (mm)

fine sand, well sorted,  
 minor shelled, silt, silt, silt.

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 75 cm Date 8-17-91 Profile 4-20-94 TB/RM  
 X Position : 29:58.65 Y Position : 87:39.79  
 Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 70 cm  
 Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 11.141 Final Weight : 11.106 Deviation : 0.314 %	
PHI	MH
Weight Percent	Cumul Percent
0.25 0.841	0.000 0.000
0.50 0.707	0.002 0.018
0.75 0.595	0.004 0.036
1.00 0.500	0.013 0.117
1.25 0.420	0.017 0.153
1.50 0.354	0.020 0.180
1.75 0.297	0.036 0.324
2.00 0.250	0.177 1.594
2.25 0.210	0.307 2.764
2.50 0.177	1.837 16.541

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine	medium	fine	medium
Wentworth Classification	0.000	0.171	2.351	97.218	0.360	0.000	0.000
Unified Classification	0.000	0.000	0.324	97.425	2.251	0.000	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.79	2.80	0.42	0.03	4.73
0.14	2.79	0.39	0.10	1.06

Method of Moments (PHI)  
 Polk Graphic Measures (PHI)  
 Grain Size (mm)

fine sand, well sorted,  
 minor shelled, silt, silt, silt.

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Offshore Alabama (ALA-91-13)																
Locality Shelf	Type Sand	Sample 100 cm	Date 8-17-91	Profile	Analysis Date 4-26-94	Analysis Date 7B/RM										
		X Position : 29158.65	Y Position : 87139.79													
		Elevation of Top of Core : 101' Length of Core : 352 m Depth to Top of Sample : 95 cm Depth to Bottom of Sample : 105 cm														
		Comments : Thuy Bui														
		Start Weight : 11.170	Final Weight : 11.146	Deviation : 0.215 g												
PHI	MM	Weight	Percent	Cumul	Weight	Percent	Cumul	Weight	Percent							
0.50	0.707	0.000	0.000	0.000	2.50	0.177	2.004	17.980	23.838							
0.75	0.595	0.063	0.063	0.063	2.75	0.149	2.515	22.564	46.402							
1.00	0.500	0.117	0.117	0.117	3.00	0.125	2.675	23.955	70.357							
1.25	0.420	0.170	0.170	0.332	3.25	0.105	2.832	20.905	90.562							
1.50	0.354	0.236	0.236	0.502	3.50	0.088	2.998	19.171	98.851							
1.75	0.297	0.296	0.296	0.798	3.75	0.074	3.161	17.425	99.922							
2.00	0.250	0.359	0.359	1.157	4.00	0.063	3.318	15.788	99.999							
2.25	0.210	0.379	0.379	1.536	4.25	0.053	3.481	14.269	100.000							
Sample Content by Weight Percent :																
		Gravel	coarse	Sand	medium	fine	Silt	Clay								
		0.000	0.179	2.279	97.371	0.170	0.000	0.000								
		Unified Classification	0.000	0.332	98.582	1.086	0.000	0.000								
Standard Statistics :																
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.39	0.01	0.95										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.40	-0.22	4.51										
		Folk Graphic Measures (PHI)	2.79	0.39	0.01	0.95										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.											
		Median	Mean	Dev.	Skew	Kurt										
		2.79	2.78	0.41	-0.01	0.99										
		0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.												
		Method of Moments (PHI)	2.78	0.44	-0.35	4.79										
		Folk Graphic Measures (PHI)	2.79	0.41	-0.01	0.99										
		Grain Size (mm)	0.14	0.15	fine sand, well sorted, coarse, sub-sorted, sub. Supter.</											

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 150 cm Date 8-17-91 Profile Analysis Date 4-27-94 TB/RM  
 X Position : 29:58.65 Y Position : 87:39.79  
 Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 145cm  
 Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 11.166		Final Weight : 11.114		Deviation : 0.466 %	
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.707	0.000	0.000	0.000	0.000
0.75	0.595	0.014	0.126	0.014	0.126
1.00	0.500	0.020	0.180	0.034	0.306
1.25	0.420	0.026	0.234	0.060	0.540
1.50	0.354	0.024	0.216	0.084	0.756
1.75	0.297	0.046	0.414	0.130	1.170
2.00	0.250	0.275	2.474	0.404	3.644
2.25	0.210	0.511	4.598	0.915	8.242
				4.25	0.053
				4.25	0.053

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	0.306	3.338	96.140	0.216	0.000	
Unified Classification	0.000	0.000	0.540	98.562	1.098	0.000	

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.75	2.76	0.41	-0.33	4.61
Grain Size (mm)	0.15	0.15	0.15	0.02	0.97

Wentworth coarse sand, silt, and clay  
 strongly coarse sand, silt, and clay. Silt & clay

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 175 cm Date 8-17-91 Profile Analysis Date 4-27-94 TB/RM  
 X Position : 29:58.65 Y Position : 87:39.79  
 Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 170cm  
 Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 11.354		Final Weight : 11.326		Deviation : 0.247 %	
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.707	0.000	0.000	0.000	0.000
0.75	0.595	0.007	0.062	0.007	0.062
1.00	0.500	0.016	0.141	0.023	0.203
1.25	0.420	0.018	0.159	0.041	0.362
1.50	0.354	0.019	0.168	0.060	0.530
1.75	0.297	0.045	0.397	0.105	0.927
2.00	0.250	0.383	3.382	0.410	9.783
2.25	0.210	0.620	5.474	0.978	9.783
				4.25	0.053
				4.25	0.053

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	0.203	4.106	95.585	0.106	0.000	
Unified Classification	0.000	0.000	0.362	98.826	0.812	0.000	

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.70	2.71	0.40	-0.16	4.05
Grain Size (mm)	0.15	0.15	0.15	0.03	0.96

Wentworth coarse sand, silt, and clay  
 strongly coarse sand, silt, and clay. Silt & clay

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 200 cm Date 8-17-91 Profile Analysis Date 3-25-94 TB/RM  
 X Position : 29:58.65 Y Position : 87:39.79  
 Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 195 cm  
 Depth to Bottom of Sample : 205 cm  
 Comments : Thuy Bul

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent	Deviation		0.356
0.25	0.841	0.000	0.000	0.000	64.209	2.75	0.149	2.467	21.473	64.209				
0.50	0.707	0.005	0.044	0.044	82.749	3.00	0.125	2.130	18.539	82.749				
0.75	0.595	0.017	0.148	0.191	94.621	3.25	0.105	1.364	11.672	94.621				
1.00	0.500	0.042	0.366	0.557	97.450	3.50	0.088	0.325	2.829	97.450				
1.25	0.420	0.039	0.339	0.897	98.608	3.75	0.074	0.156	1.358	98.608				
1.50	0.354	0.048	0.418	1.314	99.399	4.00	0.063	0.068	0.592	99.399				
1.75	0.297	0.123	1.071	2.385	99.574	4.25	0.053	0.020	0.174	99.574				
2.00	0.250	0.747	6.502	8.887	99.765	4.50	0.044	0.022	0.191	99.765				
2.25	0.210	1.174	10.218	19.105	100.000	4.75	0.037	0.027	0.235	100.000				
2.50	0.177	2.715	23.631	42.737										

Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.557	8.130	90.513	0.601	0.000
Unified Classification	0.000	0.000	0.897	97.911	1.192	0.000
Standard Statistics :	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)	2.58	2.59	0.47	0.00	5.06	
Folk Graphic Measures (PHI)	2.58	2.59	0.43	0.01	1.01	
Grain Size (mm)	0.17	0.17				

fine sand, well sorted,  
 near symmetrical, approx. 3 phi.

## Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 225 cm Date 8-17-91 Profile Analysis Date 3-25-94 TB/RM  
 X Position : 29:58.65 Y Position : 87:39.79  
 Elevation of Top of Core : 101'  
 Length of Core : 352 m  
 Depth to Top of Sample : 220 cm  
 Depth to Bottom of Sample : 230 cm  
 Comments : Thuy Bul

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent	Deviation		0.518
0.25	0.841	0.000	0.000	0.000	69.098	2.75	0.149	2.180	19.253	69.098				
0.50	0.707	0.003	0.026	0.026	85.552	3.00	0.125	1.863	16.453	85.552				
0.75	0.595	0.007	0.062	0.088	95.620	3.25	0.105	1.140	10.068	95.620				
1.00	0.500	0.027	0.238	0.327	98.184	3.50	0.088	0.287	2.535	98.184				
1.25	0.420	0.048	0.424	0.751	99.187	3.75	0.074	0.117	1.033	99.187				
1.50	0.354	0.077	0.680	1.431	99.523	4.00	0.063	0.038	0.326	99.523				
1.75	0.297	0.188	1.680	3.091	99.844	4.25	0.053	0.016	0.141	99.844				
2.00	0.250	0.950	8.390	11.481	99.844	4.50	0.044	0.020	0.177	99.844				
2.25	0.210	1.355	11.084	22.565	100.000	4.75	0.037	0.018	0.159	100.000				
2.50	0.177	3.089	27.381	49.845										

Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.327	11.154	88.042	0.477	0.000
Unified Classification	0.000	0.000	0.751	98.437	0.813	0.000
Standard Statistics :	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)	2.50	2.53	0.46	0.10	4.54	
Folk Graphic Measures (PHI)	2.50	2.53	0.43	0.06	1.03	
Grain Size (mm)	0.18	0.17				

fine sand, well sorted,  
 near symmetrical, approx. 3 phi.



Offshore Alabama (ALA-91-13)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Band 250 cm 8-17-91 3-25-94 TS/RM

X Position : 29:58.65 Y Position : 87:39.79

Elevation of Top of Core : 101'  
Length of Core : 342 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.795 Final Weight : 11.727 Deviation : 0.577 %					
PHI	MM	Weight Percent	Cumul Percent	PHI	MM
0.25	0.841	0.000	0.000	2.75	0.149
0.50	0.707	0.003	0.026	3.00	0.125
0.75	0.595	0.010	0.085	3.25	0.105
1.00	0.500	0.033	0.196	3.50	0.088
1.25	0.430	0.061	0.320	3.75	0.074
1.50	0.354	0.079	0.674	4.00	0.063
1.75	0.297	0.191	1.629	4.25	0.053
2.00	0.250	0.905	7.717	4.50	0.044
2.25	0.210	0.995	8.485	4.75	0.037
2.50	0.177	2.886	24.610		

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	0.307	10.540	88.642	0.512	0.000	
Unified Classification	0.000	0.000	0.827	98.243	0.929	0.000	

Standard Statistics :

Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.57	2.58	0.47	-0.02	4.49			
Folk Graphic Measures (PHI)		2.57	2.58	0.44	0.00	1.04			
Grain Size (mm)		0.17	0.17						

fine sand, well sorted,  
near symmetrical, silt. Septa.

Offshore Alabama (ALA-91-13)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Band 275 cm 8-17-91 3-25-94 TS/RM

X Position : 29:58.65 Y Position : 87:39.79

Elevation of Top of Core : 101'  
Length of Core : 342 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 11.076 Final Weight : 11.012 Deviation : 0.578 %					
PHI	MM	Weight Percent	Cumul Percent	PHI	MM
0.25	0.841	0.000	0.000	2.75	0.149
0.50	0.707	0.017	0.154	3.00	0.125
0.75	0.595	0.070	0.536	3.25	0.105
1.00	0.500	0.169	1.535	3.50	0.088
1.25	0.430	0.212	1.925	3.75	0.074
1.50	0.354	0.229	2.080	4.00	0.063
1.75	0.297	0.383	3.478	4.25	0.053
2.00	0.250	1.301	11.814	4.50	0.044
2.25	0.210	1.295	11.760	4.75	0.037
2.50	0.177	2.571	23.347		

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	2.325	19.297	78.051	0.327	0.000	
Unified Classification	0.000	0.000	4.250	95.260	0.490	0.000	

Standard Statistics :

Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.43	2.41	0.54	-0.11	4.16			
Folk Graphic Measures (PHI)		2.43	2.41	0.54	-0.11	4.16			
Grain Size (mm)		0.19	0.19						

fine sand, med well sorted,  
slightly coarse - skewed, silt. Septa

Offshore Alabama (ALA-91-13)

Locality Shelf Type Sand Sample 300 cm Date 8-17-91 Profile Analysis Date 3-25-94 Analyz TB/RH

X Position : 29:58.65 Y Position : 87:39.79

Elevation of Top of Core : 101'  
Length of Core : 352 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 11.645 Final Weight : 11.615 Deviation : 0.258 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.75	0.149	1.721	14.817	75.928
0.50	0.707	0.273	2.350	2.350	3.00	0.125	1.436	12.363	88.291
0.75	0.595	0.580	4.994	7.344	3.25	0.105	0.931	8.015	96.307
1.00	0.500	0.730	6.285	13.629	3.50	0.088	0.229	1.972	98.278
1.25	0.420	0.527	4.537	18.166	3.75	0.074	0.103	0.887	99.165
1.50	0.354	0.372	3.203	21.369	4.00	0.063	0.044	0.379	99.544
1.75	0.297	0.508	4.374	25.743	4.25	0.053	0.014	0.121	99.664
2.00	0.250	1.254	10.796	36.539	4.50	0.044	0.017	0.146	99.811
2.25	0.210	0.820	7.060	43.599	4.75	0.037	0.022	0.189	100.000
2.50	0.177	2.034	17.512	61.111					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	13.629	22.910	63.005
Unified Classification	0.000	0.000	18.166	80.999

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.16	0.80	-0.48	2.64
Folk Graphic Measures (PHI)	2.34	2.13	0.84	-0.34	1.03
Grain Size (mm)	0.20	0.22			

fine sand, med. sand, silt, clay  
no gravel - as observed, many silt

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 25a cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RH

X Position : 29:50.01 Y Position : 87:19.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 12.628 Final Weight : 12.581 Deviation : 0.372 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.446	11.494	63.739
0.25	0.841	0.086	0.684	0.684	2.50	0.177	2.237	17.781	81.520
0.50	0.707	0.021	0.167	0.850	2.75	0.149	1.321	10.500	92.020
0.75	0.595	0.032	0.254	1.105	3.00	0.125	0.704	5.596	97.615
1.00	0.500	0.104	0.827	1.931	3.25	0.105	0.234	1.860	99.475
1.25	0.420	0.345	2.742	4.674	3.50	0.088	0.039	0.310	99.785
1.50	0.354	0.720	5.723	10.397	3.75	0.074	0.017	0.135	99.921
1.75	0.297	1.716	13.640	24.036	4.00	0.063	0.007	0.056	99.976
2.00	0.250	3.549	28.209	52.245	4.25	0.053	0.003	0.024	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.931	50.314	47.731
Unified Classification	0.000	0.000	4.674	95.247

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.05	0.50	-0.23	4.04
Folk Graphic Measures (PHI)	1.98	2.05	0.48	0.16	1.02
Grain Size (mm)	0.25	0.24			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 25 cm Date 8-21-91 Profile Analysis Date 1-11-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 12.288 Final Weight : 12.208 Deviation : 0.651 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.167	17.751	79.341
0.25	0.841	0.085	0.696	0.696	2.75	0.149	1.334	10.927	90.269
0.50	0.707	0.018	0.147	0.844	3.00	0.125	0.700	5.734	96.003
0.75	0.595	0.031	0.254	1.098	3.25	0.105	0.246	2.015	98.018
1.00	0.500	0.107	0.876	1.974	3.50	0.088	0.062	0.508	98.526
1.25	0.420	0.330	2.703	4.677	3.75	0.074	0.032	0.262	98.788
1.50	0.354	0.691	5.660	10.337	4.00	0.063	0.028	0.229	99.017
1.75	0.297	1.601	13.114	23.452	4.25	0.053	0.016	0.131	99.148
2.00	0.250	3.265	26.745	50.197	4.50	0.044	0.104	0.852	100.000
2.25	0.210	1.391	11.394	61.591					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.974	48.222	48.820	0.983	0.000
Unified Classification	0.000	0.000	4.677	94.110	1.212	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.09	0.56	0.40	5.44
Folk Graphic Measures (PHI)	2.00	2.07	0.51	0.18	1.03
Grain Size (mm)	0.25	0.23			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 5 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 12.377 Final Weight : 12.282 Deviation : 0.768 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.332	18.987	80.712
0.25	0.841	0.041	0.334	0.334	2.75	0.149	1.178	9.591	90.303
0.50	0.707	0.020	0.163	0.497	3.00	0.125	0.702	5.716	96.019
0.75	0.595	0.028	0.228	0.725	3.25	0.105	0.264	2.149	98.168
1.00	0.500	0.085	0.692	1.417	3.50	0.088	0.097	0.790	98.958
1.25	0.420	0.315	2.565	3.981	3.75	0.074	0.035	0.285	99.243
1.50	0.354	0.628	5.113	9.095	4.00	0.063	0.023	0.187	99.430
1.75	0.297	1.744	14.200	23.294	4.25	0.053	0.015	0.122	99.552
2.00	0.250	3.188	25.957	49.251	4.50	0.044	0.055	0.448	100.000
2.25	0.210	1.532	12.474	61.724					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.417	47.834	50.179	0.570	0.000
Unified Classification	0.000	0.000	3.981	95.261	0.757	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.09	0.53	0.39	4.89
Folk Graphic Measures (PHI)	2.02	2.07	0.49	0.16	1.03
Grain Size (mm)	0.25	0.23			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 50 cm Date 8-21-91 Profile Analysis Date 1-13-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.332 Final Weight : 12.285 Deviation : 0.381 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.274	18.510	79.096
0.25	0.841	0.037	0.301	0.301	2.75	0.149	1.384	11.266	90.362
0.50	0.707	0.021	0.171	0.472	3.00	0.125	0.730	5.942	96.304
0.75	0.595	0.018	0.147	0.619	3.25	0.105	0.258	2.100	98.405
1.00	0.500	0.080	0.651	1.270	3.50	0.088	0.060	0.488	98.893
1.25	0.420	0.297	2.418	3.687	3.75	0.074	0.014	0.277	99.170
1.50	0.354	0.661	5.381	9.068	4.00	0.063	0.023	0.187	99.357
1.75	0.297	1.591	12.951	22.019	4.25	0.053	0.013	0.106	99.463
2.00	0.250	3.335	27.147	49.166	4.50	0.044	0.066	0.537	100.000
2.25	0.210	1.403	11.420	60.586					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.270	47.896	50.191	0.643	0.000
Unified Classification	0.000	0.000	3.687	95.482	0.830	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.10	0.53	0.41	4.97
Folk Graphic Measures (PHI)	2.02	2.09	0.49	0.17	1.00
Grain Size (mm)	0.25	0.23			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 75 cm Date 8-21-91 Profile Analysis Date 1-13-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 12.683 Final Weight : 12.606 Deviation : 0.607 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.112	16.754	82.461
0.25	0.841	0.064	0.508	0.508	2.75	0.149	1.202	9.535	91.996
0.50	0.707	0.016	0.127	0.635	3.00	0.125	0.621	4.926	96.922
0.75	0.595	0.024	0.190	0.825	3.25	0.105	0.216	1.713	98.636
1.00	0.500	0.130	1.031	1.856	3.50	0.088	0.048	0.381	99.016
1.25	0.420	0.380	3.014	4.871	3.75	0.074	0.028	0.222	99.238
1.50	0.354	0.828	6.568	11.439	4.00	0.063	0.020	0.150	99.397
1.75	0.297	1.840	14.596	26.035	4.25	0.053	0.012	0.095	99.492
2.00	0.250	3.623	28.740	54.776	4.50	0.044	0.064	0.508	100.000
2.25	0.210	1.378	10.931	65.707					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.856	52.919	44.622	0.603	0.000
Unified Classification	0.000	0.000	4.871	94.368	0.762	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.04	0.53	0.39	5.19
Folk Graphic Measures (PHI)	1.96	2.03	0.49	0.18	1.03
Grain Size (mm)	0.26	0.24			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 100 cm Date 8-21-91 Profile Analysis Date 1-13-94 Analyst SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 12.814 Final Weight : 11.163 Deviation : 12.884 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.733	15.525	85.389
0.25	0.841	0.115	1.030	1.030	2.75	0.149	0.938	8.403	93.792
0.50	0.707	0.024	0.215	1.245	3.00	0.125	0.445	3.986	97.778
0.75	0.595	0.050	0.448	1.693	3.25	0.105	0.142	1.272	99.050
1.00	0.500	0.142	1.272	2.965	3.50	0.088	0.027	0.242	99.292
1.25	0.420	0.415	3.718	6.683	3.75	0.074	0.016	0.143	99.436
1.50	0.354	0.808	7.238	13.921	4.00	0.063	0.012	0.107	99.543
1.75	0.297	1.755	15.722	29.643	4.25	0.053	0.006	0.054	99.597
2.00	0.250	3.297	29.535	59.178	4.50	0.044	0.045	0.403	100.000
2.25	0.210	1.193	10.687	69.865					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.965	56.212	40.365
Unified Classification	0.000	0.000	6.683	92.753

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.97	0.54	0.10	5.32
Folk Graphic Measures (PHI)	1.92	1.98	0.49	0.12	1.05
Grain Size (mm)	0.26	0.25			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 125 cm Date 8-21-91 Profile Analysis Date 1-13-94 Analyst SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.455 Final Weight : 12.367 Deviation : 0.707 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.923	15.549	83.876
0.25	0.841	0.090	0.728	0.728	2.75	0.149	1.102	8.911	92.787
0.50	0.707	0.026	0.210	0.938	3.00	0.125	0.550	4.447	97.235
0.75	0.595	0.048	0.388	1.326	3.25	0.105	0.187	1.512	98.747
1.00	0.500	0.153	1.237	2.563	3.50	0.088	0.040	0.323	99.070
1.25	0.420	0.436	3.526	6.089	3.75	0.074	0.024	0.194	99.264
1.50	0.354	0.907	7.334	13.423	4.00	0.063	0.017	0.137	99.402
1.75	0.297	1.975	15.970	29.393	4.25	0.053	0.010	0.081	99.482
2.00	0.250	3.506	28.350	57.742	4.50	0.044	0.064	0.518	100.000
2.25	0.210	1.309	10.585	68.327					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.563	55.179	41.659
Unified Classification	0.000	0.000	6.089	93.175

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.00	0.55	0.33	5.25
Folk Graphic Measures (PHI)	1.93	1.99	0.50	0.15	1.03
Grain Size (mm)	0.26	0.25			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 150 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 12.888 Final Weight : 12.796 Deviation : 0.714 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.868	14.598	85.574
0.25	0.841	0.190	1.485	1.485	2.75	0.149	1.028	8.034	93.607
0.50	0.707	0.066	0.438	1.922	3.00	0.125	0.496	3.876	97.484
0.75	0.595	0.062	0.485	2.407	3.25	0.105	0.174	1.360	98.843
1.00	0.500	0.186	1.454	3.861	3.50	0.088	0.039	0.305	99.148
1.25	0.420	0.516	4.031	7.893	3.75	0.074	0.023	0.180	99.328
1.50	0.354	0.995	7.776	15.669	4.00	0.063	0.019	0.148	99.476
1.75	0.297	2.061	16.107	31.776	4.25	0.053	0.010	0.078	99.555
2.00	0.250	3.657	28.579	60.355	4.50	0.044	0.057	0.445	100.000
2.25	0.210	1.359	10.621	70.975					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	3.861	56.494	39.122	0.524	0.000
Unified Classification	0.000	0.000	7.893	91.435	0.672	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.95	0.57	0.04	5.29
Folk Graphic Measures (PHI)	1.91	1.96	0.51	0.11	1.08
Grain Size (mm)	0.27	0.26			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 175 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 12.550 Final Weight : 12.429 Deviation : 0.964 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.134	17.170	81.752
0.25	0.841	0.374	3.009	3.009	2.75	0.149	1.254	10.089	91.842
0.50	0.707	0.047	0.378	3.387	3.00	0.125	0.631	5.077	96.918
0.75	0.595	0.074	0.595	3.983	3.25	0.105	0.224	1.802	98.721
1.00	0.500	0.183	1.472	5.455	3.50	0.088	0.054	0.434	99.155
1.25	0.420	0.401	3.226	8.681	3.75	0.074	0.008	0.064	99.220
1.50	0.354	0.751	6.042	14.724	4.00	0.063	0.019	0.153	99.372
1.75	0.297	1.587	12.769	27.492	4.25	0.053	0.011	0.105	99.477
2.00	0.250	3.191	25.674	53.166	4.50	0.044	0.065	0.523	100.000
2.25	0.210	1.419	11.417	64.583					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	5.455	47.711	46.206	0.628	0.000
Unified Classification	0.000	0.000	8.681	90.538	0.780	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.00	0.63	-0.38	5.04
Folk Graphic Measures (PHI)	1.97	2.02	0.56	0.04	1.16
Grain Size (mm)	0.26	0.25			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 200 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:19.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 12.220 Final Weight : 12.133 Deviation : 0.712 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.541	20.943	80.549
0.25	0.841	0.464	3.824	3.824	2.75	0.149	1.398	11.522	92.071
0.50	0.707	0.059	0.486	4.311	3.00	0.125	0.660	5.440	97.511
0.75	0.595	0.100	0.824	5.135	3.25	0.105	0.198	1.632	99.143
1.00	0.500	0.226	1.863	6.997	3.50	0.088	0.036	0.297	99.440
1.25	0.420	0.372	3.066	10.063	3.75	0.074	0.017	0.140	99.580
1.50	0.354	0.548	4.517	14.580	4.00	0.063	0.012	0.099	99.679
1.75	0.297	1.121	9.239	23.819	4.25	0.053	0.006	0.049	99.728
2.00	0.250	2.781	22.921	46.740	4.50	0.044	0.033	0.272	100.000
2.25	0.210	1.561	12.866	59.606					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	6.997	39.743	52.938
Unified Classification	0.000	0.000	10.063	89.516

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.02	0.64	-0.83	4.79
Folk Graphic Measures (PHI)	2.06	2.06	0.59	-0.13	1.33
Grain Size (mm)	0.24	0.25			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 225 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:19.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 12.678 Final Weight : 12.591 Deviation : 0.686 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.590	20.570	76.801
0.25	0.841	0.573	4.551	4.551	2.75	0.149	1.593	12.652	89.453
0.50	0.707	0.074	0.588	5.139	3.00	0.125	0.843	6.695	96.148
0.75	0.595	0.095	0.755	5.893	3.25	0.105	0.281	2.232	98.380
1.00	0.500	0.205	1.628	7.521	3.50	0.088	0.061	0.484	98.864
1.25	0.420	0.367	2.915	10.436	3.75	0.074	0.036	0.286	99.150
1.50	0.354	0.580	4.606	15.042	4.00	0.063	0.025	0.199	99.349
1.75	0.297	1.141	9.062	24.105	4.25	0.053	0.015	0.119	99.468
2.00	0.250	2.622	20.824	44.929	4.50	0.044	0.067	0.532	100.000
2.25	0.210	1.423	11.302	56.231					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	7.521	37.408	54.420
Unified Classification	0.000	0.000	10.436	88.714

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.05	0.70	-0.69	4.59
Folk Graphic Measures (PHI)	2.11	2.09	0.66	-0.19	1.44
Grain Size (mm)	0.23	0.24			

Offshore Alabama (ALA-91-14)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      250 cm      8-21-91           1-14-94      SA/RM

X Position : 29:50.01      Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bui

Start Weight : 12.841      Final Weight : 12.747      Deviation : 0.732 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.584	20.271	75.194
0.25	0.841	0.145	1.138	1.138	2.75	0.149	1.647	12.921	88.115
0.50	0.707	0.033	0.259	1.396	3.00	0.125	0.958	7.513	95.630
0.75	0.595	0.040	0.314	1.710	3.25	0.105	0.334	2.620	98.251
1.00	0.500	0.117	0.918	2.628	3.50	0.088	0.070	0.549	98.800
1.25	0.420	0.278	2.181	4.809	3.75	0.074	0.029	0.228	99.027
1.50	0.354	0.517	4.056	8.865	4.00	0.063	0.025	0.196	99.223
1.75	0.297	1.204	9.445	18.310	4.25	0.053	0.016	0.126	99.349
2.00	0.250	3.093	24.265	42.575	4.50	0.044	0.083	0.651	100.000
2.25	0.210	1.574	12.348	54.923					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.628	39.947	56.649	0.777	0.000
Unified Classification	0.000	0.000	4.809	94.218	0.973	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.15	0.57	-0.12	5.33
Folk Graphic Measures (PHI)	2.15	2.17	0.51	0.01	1.04
Grain Size (mm)	0.23	0.23			

Offshore Alabama (ALA-91-14)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      275 cm      8-21-91           1-18-94      SA/RM

X Position : 29:50.01      Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 12.357      Final Weight : 12.269      Deviation : 0.712 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.878	15.307	79.827
0.25	0.841	0.091	0.742	0.742	2.75	0.149	1.148	9.357	89.184
0.50	0.707	0.029	0.236	0.978	3.00	0.125	0.717	5.844	95.028
0.75	0.595	0.031	0.269	1.247	3.25	0.105	0.344	2.804	97.832
1.00	0.500	0.126	1.027	2.274	3.50	0.088	0.104	0.848	98.680
1.25	0.420	0.380	3.097	5.371	3.75	0.074	0.081	0.660	99.340
1.50	0.354	0.772	6.292	11.664	4.00	0.063	0.062	0.505	99.845
1.75	0.297	1.693	13.799	25.463	4.25	0.053	0.013	0.106	99.951
2.00	0.250	3.441	28.046	53.509	4.50	0.044	0.006	0.049	100.000
2.25	0.210	1.351	11.011	64.520					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.274	51.235	46.336	0.155	0.000
Unified Classification	0.000	0.000	5.371	93.969	0.660	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.06	0.56	0.15	4.20
Folk Graphic Measures (PHI)	1.97	2.05	0.51	0.20	1.07
Grain Size (mm)	0.26	0.24			



Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 300 cm Date 8-21-91 Profile Analysis Date 1-18-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 12.334 Final Weight : 12.264 Deviation : 0.568 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.787	6.417	90.794
-0.25	1.189	0.014	0.114	0.114	2.25	0.210	0.439	3.580	94.374
0.00	1.000	0.010	0.082	0.196	2.50	0.177	0.297	2.422	96.795
0.25	0.841	0.021	0.171	0.367	2.75	0.149	0.197	1.606	98.402
0.50	0.707	0.120	0.978	1.345	3.00	0.125	0.090	0.734	99.136
0.75	0.595	0.571	4.656	6.001	3.25	0.105	0.063	0.514	99.649
1.00	0.500	1.348	10.992	16.993	3.50	0.088	0.038	0.310	99.959
1.25	0.420	3.018	24.609	41.601	3.75	0.074	0.002	0.016	99.976
1.50	0.354	4.407	35.934	77.536	4.00	0.063	0.003	0.024	100.000
1.75	0.297	0.839	6.841	84.377					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	16.993	73.801	9.206
Unified Classification	0.000	0.000	41.601	58.374

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.36	0.47	1.10	5.77
Folk Graphic Measures (PHI)	1.31	1.34	0.43	0.19	1.65
Grain Size (mm)	0.40	0.39			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 325 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyz SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 12.028 Final Weight : 11.932 Deviation : 0.798 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.019	8.540	90.312
0.25	0.841	0.022	0.184	0.184	2.75	0.149	0.589	4.936	95.248
0.50	0.707	0.008	0.067	0.251	3.00	0.125	0.336	2.816	98.064
0.75	0.595	0.016	0.134	0.386	3.25	0.105	0.153	1.282	99.346
1.00	0.500	0.077	0.645	1.031	3.50	0.088	0.045	0.377	99.723
1.25	0.420	0.418	3.503	4.534	3.75	0.074	0.021	0.176	99.899
1.50	0.354	1.121	9.395	13.929	4.00	0.063	0.009	0.075	99.975
1.75	0.297	2.737	22.938	36.867	4.25	0.053	0.000	0.000	99.975
2.00	0.250	4.431	37.135	74.003	4.50	0.044	0.003	0.025	100.000
2.25	0.210	0.927	7.769	81.772					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.031	72.972	25.972
Unified Classification	0.000	0.000	4.534	95.365

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.89	0.44	0.71	4.89
Folk Graphic Measures (PHI)	1.84	1.89	0.42	0.21	1.47
Grain Size (mm)	0.28	0.27			

Offshore Alabama (ALA-91-14)

Locality Shelf Type Sand Sample 350 cm Date 8-21-91 Profile Analysis Date 1-14-94 Analyst SA/RM

X Position : 29:50.01 Y Position : 87:39.86

Elevation of Top of Core : 116'  
Length of Core : 377 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 12.447 Final Weight : 12.391 Deviation : 0.450 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.469	3.785	97.087
-0.25	1.189	0.008	0.065	0.065	2.25	0.210	0.196	1.582	98.668
0.00	1.000	0.002	0.016	0.081	2.50	0.177	0.103	0.831	99.500
0.25	0.841	0.010	0.081	0.161	2.75	0.149	0.040	0.323	99.822
0.50	0.707	0.097	0.783	0.944	3.00	0.125	0.006	0.048	99.871
0.75	0.595	0.542	4.374	5.318	3.25	0.105	0.016	0.129	100.000
1.00	0.500	1.466	11.831	17.150	3.50	0.088	0.000	0.000	100.000
1.25	0.420	3.624	29.247	46.397	3.75	0.074	0.000	0.000	100.000
1.50	0.354	5.093	41.102	87.499	4.00	0.063	0.000	0.000	100.000
1.75	0.297	0.719	5.803	93.302					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	17.150	79.937	2.913
Unified Classification	0.000	0.000	46.397	53.603

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.26	0.33	0.65	6.43
Folk Graphic Measures (PHI)	1.27	1.24	0.30	-0.07	1.30
Grain Size (mm)	0.41	0.42			

Offshore Alabama (ALA-91-15)

Locality Shelf Type Sand Sample 5 cm Date 8-20-91 Profile Analysis Date 3-18-94 Analyst TB/RM

X Position : 29:41.35 Y Position : 87:39.83

Elevation of Top of Core : 118'  
Length of Core : 200 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.128 Final Weight : 11.120 Deviation : 0.072 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.922	17.284	50.899
0.00	1.000	0.005	0.045	0.045	2.50	0.177	3.375	30.351	81.250
0.25	0.841	0.023	0.207	0.252	2.75	0.149	1.411	12.689	93.939
0.50	0.707	0.027	0.243	0.495	3.00	0.125	0.544	4.892	98.831
0.75	0.595	0.033	0.297	0.791	3.25	0.105	0.109	0.980	99.811
1.00	0.500	0.065	0.585	1.376	3.50	0.088	0.010	0.090	99.901
1.25	0.420	0.121	1.088	2.464	3.75	0.074	0.004	0.036	99.937
1.50	0.354	0.190	1.709	4.173	4.00	0.063	0.004	0.036	99.973
1.75	0.297	0.554	4.982	9.155	4.25	0.053	0.003	0.027	100.000
2.00	0.250	2.720	24.460	33.615					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.376	32.239	66.358
Unified Classification	0.000	0.000	2.464	97.473

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.18	0.41	-0.79	5.90
Folk Graphic Measures (PHI)	2.24	2.20	0.37	-0.12	0.96
Grain Size (mm)	0.21	0.22			

1.27 = 1.26 + 0.01  
1.24 = 1.26 - 0.02  
0.30 = 0.33 - 0.03  
-0.07 = 0.65 - 0.72

Offshore Alabama (ALA-91-15)																														
Locality Shelf	Type Sand	Sample 25 cm	Date 8-20-91	Profile	Analysis Date 3-18-94	Analysis Date 7B/WM																								
							X Position : 29141.35	Y Position : 87139.83																						
							Elevation of Top of Core : 118'																							
							Length of Core : 200 cm																							
							Depth to Top of Sample : 20 cm																							
							Depth to Bottom of Sample : 30 cm																							
Comments : Thuy Bul																														
Start Weight : 11.766							Final Weight : 11.739	Deviation : 0.229 %																						
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent																					
-0.25	1.189	0.000	0.000	0.000	0.000	2.25	0.210	1.804	15.368																					
0.00	1.000	0.008	0.068	0.068	0.068	2.50	0.177	4.064	34.420																					
0.25	0.841	0.018	0.152	0.220	0.220	2.75	0.149	1.976	16.816																					
0.50	0.707	0.013	0.111	0.331	0.331	3.00	0.125	0.895	7.622																					
0.75	0.595	0.024	0.204	0.535	0.535	3.25	0.105	0.345	2.924																					
1.00	0.500	0.044	0.375	0.910	0.910	3.50	0.088	0.313	2.681																					
1.25	0.420	0.085	0.724	1.636	1.636	3.75	0.074	0.111	0.994																					
1.50	0.354	0.145	1.235	2.871	2.871	4.00	0.063	0.008	0.688																					
1.75	0.297	0.357	3.041	5.912	5.912	4.25	0.053	0.006	0.051																					
2.00	0.250	2.015	17.165	23.077	23.077																									
Sample Content by Weight Percent :																														
<table><tr><th>Gravel</th><th>coarse</th><th>Sand</th><th>medium</th><th>fine</th><th>Silt</th><th>Clay</th></tr><tr><td>Wentworth Classification</td><td>0.000</td><td>0.911</td><td>22.165</td><td>76.872</td><td>0.051</td><td>0.000</td></tr><tr><td>Unified Classification</td><td>0.000</td><td>0.000</td><td>1.636</td><td>98.245</td><td>0.119</td><td>0.000</td></tr></table>										Gravel	coarse	Sand	medium	fine	Silt	Clay	Wentworth Classification	0.000	0.911	22.165	76.872	0.051	0.000	Unified Classification	0.000	0.000	1.636	98.245	0.119	0.000
Gravel	coarse	Sand	medium	fine	Silt	Clay																								
Wentworth Classification	0.000	0.911	22.165	76.872	0.051	0.000																								
Unified Classification	0.000	0.000	1.636	98.245	0.119	0.000																								
Standard Statistics :																														
<table><tr><th>Median</th><th>Mean</th><th>Dev.</th><th>Skew</th><th>Kurt</th></tr><tr><td>2.33</td><td>2.29</td><td>0.41</td><td>-0.76</td><td>6.33</td></tr></table>										Median	Mean	Dev.	Skew	Kurt	2.33	2.29	0.41	-0.76	6.33											
Median	Mean	Dev.	Skew	Kurt																										
2.33	2.29	0.41	-0.76	6.33																										
Method of Moments (PHI)																														
Folk Graphic Measures (PHI)																														
Grain Size (mm)																														
fine sand, well sorted, strongly coarse - tabular, sub-angular.																														

Offshore Alabama (ALA-91-15)																														
Locality Shelf	Type Sand	Sample 50 cm	Date 8-20-91	Profile	Analysis Date 3-18-94	Analysis Date 7B/WM																								
							X Position : 29141.35	Y Position : 87139.83																						
							Elevation of Top of Core : 118'																							
							Length of Core : 200 cm																							
							Depth to Top of Sample : 45 cm																							
							Depth to Bottom of Sample : 55 cm																							
Comments : Thuy Bul																														
Start Weight : 11.702							Final Weight : 11.667	Deviation : 0.299 %																						
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent																					
-0.25	1.189	0.000	0.000	0.000	0.000	2.25	0.210	1.748	14.982																					
0.00	1.000	0.003	0.026	0.026	0.026	2.50	0.177	1.978	14.096																					
0.25	0.841	0.008	0.069	0.094	0.094	2.75	0.149	1.996	17.108																					
0.50	0.707	0.014	0.120	0.214	0.214	3.00	0.125	0.869	7.448																					
0.75	0.595	0.020	0.171	0.386	0.386	3.25	0.105	0.340	2.957																					
1.00	0.500	0.060	0.514	0.900	0.900	3.50	0.088	0.035	0.300																					
1.25	0.420	0.093	0.797	1.697	1.697	3.75	0.074	0.011	0.094																					
1.50	0.354	0.158	1.354	3.051	3.051	4.00	0.063	0.006	0.051																					
1.75	0.297	0.360	3.086	6.137	6.137	4.25	0.053	0.007	0.060																					
2.00	0.250	2.061	17.665	23.802	23.802																									
Sample Content by Weight Percent :																														
<table><tr><th>Gravel</th><th>coarse</th><th>Sand</th><th>medium</th><th>fine</th><th>Silt</th><th>Clay</th></tr><tr><td>Wentworth Classification</td><td>0.000</td><td>0.900</td><td>22.902</td><td>76.138</td><td>0.060</td><td>0.000</td></tr><tr><td>Unified Classification</td><td>0.000</td><td>0.000</td><td>1.697</td><td>98.191</td><td>0.111</td><td>0.000</td></tr></table>										Gravel	coarse	Sand	medium	fine	Silt	Clay	Wentworth Classification	0.000	0.900	22.902	76.138	0.060	0.000	Unified Classification	0.000	0.000	1.697	98.191	0.111	0.000
Gravel	coarse	Sand	medium	fine	Silt	Clay																								
Wentworth Classification	0.000	0.900	22.902	76.138	0.060	0.000																								
Unified Classification	0.000	0.000	1.697	98.191	0.111	0.000																								
Standard Statistics :																														
<table><tr><th>Median</th><th>Mean</th><th>Dev.</th><th>Skew</th><th>Kurt</th></tr><tr><td>2.33</td><td>2.29</td><td>0.41</td><td>-0.61</td><td>5.44</td></tr></table>										Median	Mean	Dev.	Skew	Kurt	2.33	2.29	0.41	-0.61	5.44											
Median	Mean	Dev.	Skew	Kurt																										
2.33	2.29	0.41	-0.61	5.44																										
Method of Moments (PHI)																														
Folk Graphic Measures (PHI)																														
Grain Size (mm)																														
fine sand, well sorted, strongly coarse - tabular, sub-angular.																														

## Offshore Alabama (ALA-91-15)

Locality Shelf  
Type Sand  
Sample 75 cm  
Date 8-20-91  
Profile  
Analysis Date 3-18-94  
Analyst TB/RM  
X Position : 29:41.35 Y Position : 87:39.83  
Elevation of Top of Core : 118'  
Length of Core : 200 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm  
Comments : Thuy Bui

Start Weight	11.248	Final Weight	11.214	Deviation	0.302 %
PHI	NM	Weight	Cumul	Percent	
-0.25	1.189	0.000	0.000	42.768	
0.00	1.000	0.002	0.018	3.704	33.030
0.25	0.841	0.015	0.134	1.764	15.730
0.50	0.707	0.018	0.312	0.722	6.438
0.75	0.595	0.031	0.589	0.193	1.721
1.00	0.500	0.060	0.606	0.018	0.161
1.25	0.420	0.120	1.070	0.007	0.062
1.50	0.354	0.196	1.748	0.005	0.045
1.75	0.297	0.410	3.656	0.005	0.045
2.00	0.250	2.135	19.039	26.708	

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	1.195	25.513	73.248	0.045	0.000	0.000
Unified Classification	0.000	0.000	2.265	97.646	0.089	0.000	0.000
Standard Statistics :			Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)				2.25	0.42	-0.75	5.54
Folk Graphic Measures (PHI)				2.30	2.26	0.39	-0.14
Grain Size (mm)				0.20	0.21		1.05

fine sand, well sorted,  
slightly coarse - altered, soft, soptm.

## Offshore Alabama (ALA-91-15)

Locality Shelf  
Type Sand  
Sample 100 cm  
Date 8-20-91  
Profile  
Analysis Date 3-21-94  
Analyst TB/RM  
X Position : 29:41.35 Y Position : 87:39.83  
Elevation of Top of Core : 118'  
Length of Core : 200 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm  
Comments : Thuy Bui

Start Weight	11.669	Final Weight	11.644	Deviation	0.214 %
PHI	NM	Weight	Cumul	Percent	
-0.25	1.189	0.000	0.000	0.000	
0.00	1.000	0.003	0.026	0.026	2.027
0.25	0.841	0.026	0.077	0.662	17.408
0.50	0.707	0.038	0.240	2.038	30.840
0.75	0.595	0.038	0.318	2.750	39.591
1.00	0.500	0.045	0.507	4.300	58.891
1.25	0.420	0.098	0.882	7.500	96.391
1.50	0.354	0.134	1.323	11.250	154.891
1.75	0.297	0.521	4.474	38.014	519.891
2.00	0.250	2.385	20.483	175.014	2439.891

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.893	27.121	71.986	0.000	0.000	0.000
Unified Classification	0.000	0.000	1.735	98.248	0.017	0.000	0.000
Standard Statistics :			Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)				2.24	0.40	-0.63	5.12
Folk Graphic Measures (PHI)				2.29	2.26	0.39	-0.10
Grain Size (mm)				0.20	0.21		0.99

fine sand, well sorted,  
slightly coarse - altered, soft, soptm.

Offshore Alabama (ALA-91-15)

Locality Shelf Type Sand Sample 125 cm Date 8-20-91 Profile Analysis Date Analyz 3-21-94 TB/RM  
X Position : 29141.35 Y Position : 87139.83  
Elevation of Top of Core : 118'  
Length of Core : 200 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm  
Comments : Thuy Bui

Start Weight : 11.475		Final Weight : 11.448		Deviation : 0.235 g	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	46.654
0.00	1.000	0.005	0.044	0.044	34.416
0.25	0.841	0.007	0.061	0.105	24.916
0.50	0.707	0.006	0.052	0.157	12.124
0.75	0.595	0.013	0.114	0.271	5.938
1.00	0.500	0.042	0.367	0.638	1.057
1.25	0.420	0.102	0.891	1.529	0.114
1.50	0.354	0.156	1.363	2.891	0.079
1.75	0.297	0.505	4.411	7.303	0.017
2.00	0.250	2.729	23.838	31.141	0.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	0.638	30.503	68.859	0.000	0.000
Unified Classification	0.000	0.000	1.529	98.454	0.017	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.22	0.38	-0.50	4.94
Polk Graphic Measures (PHI)		2.27	2.23	0.36	-0.14	0.95
Grain Size (mm)		0.21	0.22			

fine sand, well sorted, although some are retained, water, depth

Offshore Alabama (ALA-91-15)

Locality Shelf Type Sand Sample 150 cm Date 8-20-91 Profile Analysis Date Analyz 3-21-94 TB/RM  
X Position : 29141.35 Y Position : 87139.83  
Elevation of Top of Core : 118'  
Length of Core : 200 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm  
Comments : Thuy Bui

Start Weight : 11.441		Final Weight : 11.406		Deviation : 0.306 g	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	41.452
0.00	1.000	0.004	0.035	0.035	36.437
0.25	0.841	0.015	0.132	0.077	12.642
0.50	0.707	0.019	0.167	0.246	7.207
0.75	0.595	0.019	0.167	0.413	1.815
1.00	0.500	0.067	0.582	0.977	0.237
1.25	0.420	0.156	1.363	2.112	0.140
1.50	0.354	0.156	1.363	3.475	0.053
1.75	0.297	0.393	3.446	6.588	0.018
2.00	0.250	2.188	19.183	25.741	0.000

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification		0.000	0.877	24.864	74.242	0.018	0.000	0.000	0.000
Unified Classification		0.000	0.000	1.718	98.211	0.070	0.000	0.000	0.000
Standard Statistics :									
		Median		Mean		Dev.		Skew	
				2.36		0.40		-0.64	
				2.37		0.38		-0.11	
				0.21					
Method of Moments (PHI)									
		2.31		0.38		-0.11		1.06	
Polk Graphic Measures (PHI)									
		0.20		0.21					
Grain Size (mm)									

fine sand, well sorted, although some are retained, water, depth

Offshore Alabama (ALA-91-15)

Locality Shelf Type Sand Sample 175 cm Date 8-20-91 Profile Analysis Date 1-21-94 Analyz TB/RM

X Position : 29:41.35 Y Position : 87:39.83

Elevation of Top of Core : 118'  
Length of Core : 200 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.040 Final Weight : 11.002 Deviation : 0.344 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.653	15.025	42.701
0.00	1.000	0.001	0.009	0.009	2.50	0.177	4.022	36.557	79.258
0.25	0.841	0.018	0.164	0.173	2.75	0.149	1.398	12.707	91.965
0.50	0.707	0.015	0.136	0.309	3.00	0.125	0.621	5.644	97.610
0.75	0.595	0.013	0.118	0.427	3.25	0.105	0.200	1.818	99.427
1.00	0.500	0.040	0.364	0.791	3.50	0.088	0.033	0.300	99.727
1.25	0.420	0.096	0.873	1.663	3.75	0.074	0.013	0.118	99.845
1.50	0.354	0.158	1.436	3.099	4.00	0.063	0.006	0.055	99.900
1.75	0.297	0.421	3.827	6.926	4.25	0.053	0.011	0.100	100.000
2.00	0.250	2.283	20.751	27.677					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.791	26.886	72.223	0.100	0.000
Unified Classification	0.000	0.000	1.663	98.182	0.155	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.25	0.40	-0.49	5.86
Folk Graphic Measures (PHI)	2.30	2.25	0.37	-0.14	1.03
Grain Size (mm)	0.20	0.21			

from analysis, ...  
analysis ...

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 5 cm Date 8-20-91 Profile Analysis Date 6-27-93 Analyz BA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.957 Final Weight : 11.878 Deviation : 0.661 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	1.537	12.940	89.426
0.75	0.595	0.000	0.000	0.000	3.25	0.105	0.743	6.255	95.681
1.00	0.500	0.009	0.076	0.076	3.50	0.088	0.179	1.507	97.188
1.25	0.420	0.029	0.244	0.320	3.75	0.074	0.117	0.985	98.173
1.50	0.354	0.066	0.556	0.876	4.00	0.063	0.080	0.674	98.847
1.75	0.297	0.244	2.054	2.930	4.25	0.053	0.037	0.312	99.158
2.00	0.250	1.522	12.814	15.743	4.50	0.044	0.045	0.379	99.537
2.25	0.210	1.635	13.765	29.508	4.75	0.037	0.028	0.236	99.773
2.50	0.177	3.444	28.995	58.503	5.00	0.031	0.027	0.227	100.000
2.75	0.149	2.136	17.983	76.486					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.076	15.668	83.103	1.153	0.000
Unified Classification	0.000	0.000	0.320	97.853	1.827	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.47	0.48	0.97	6.05
Folk Graphic Measures (PHI)	2.43	2.44	0.44	0.08	1.05
Grain Size (mm)	0.19	0.18			

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 25 cm Date 8-20-91 Profile Analysis Date 6-27-93 Analyz SA/RM  
X Position : 24:45.07 Y Position : 87:35.19  
Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.945 Final Weight : 11.866 Deviation : 0.661 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.50	0.707	0.000	0.000	0.000	3.00	0.125	1.016	8.562	94.564
0.75	0.595	0.003	0.025	0.025	3.25	0.105	0.412	3.472	98.036
1.00	0.500	0.029	0.244	0.270	3.50	0.088	0.083	0.699	98.736
1.25	0.420	0.071	0.598	0.868	3.75	0.074	0.046	0.388	99.124
1.50	0.354	0.158	1.332	2.200	4.00	0.063	0.032	0.270	99.393
1.75	0.297	0.486	4.096	6.295	4.25	0.053	0.017	0.143	99.536
2.00	0.250	2.479	20.892	27.187	4.50	0.044	0.021	0.177	99.713
2.25	0.210	1.955	16.476	43.663	4.75	0.037	0.013	0.110	99.823
2.50	0.177	3.304	27.844	71.507	5.00	0.031	0.021	0.177	100.000
2.75	0.149	1.720	14.495	86.002					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.270	26.917	72.206	0.607	0.000
Unified Classification	0.000	0.000	0.868	98.256	0.876	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.46	0.79	6.29
Folk Graphic Measures (PHI)	2.31	2.30	0.42	0.01	0.95
Grain Size (mm)	0.20	0.20			

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 50 cm Date 8-20-91 Profile Analysis Date 6-27-93 Analyz SA/RM  
X Position : 24:45.07 Y Position : 87:35.19  
Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.143 Final Weight : 12.077 Deviation : 0.544 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.50	0.707	0.000	0.000	0.000	1.00	0.125	1.026	8.495	94.287
0.75	0.595	0.011	0.091	0.091	3.25	0.105	0.435	3.602	97.889
1.00	0.500	0.032	0.265	0.356	3.50	0.088	0.094	0.778	98.667
1.25	0.420	0.078	0.646	1.002	3.75	0.074	0.051	0.422	99.089
1.50	0.354	0.158	1.308	2.310	4.00	0.063	0.038	0.315	99.404
1.75	0.297	0.470	3.892	6.202	4.25	0.053	0.018	0.149	99.553
2.00	0.250	2.467	20.427	26.629	4.50	0.044	0.023	0.190	99.743
2.25	0.210	1.937	16.039	42.668	4.75	0.037	0.016	0.132	99.876
2.50	0.177	3.465	28.691	71.359	5.00	0.031	0.015	0.124	100.000
2.75	0.149	1.743	14.432	85.791					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.356	26.273	72.775	0.596	0.000
Unified Classification	0.000	0.000	1.002	98.087	0.911	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.46	0.71	6.07
Folk Graphic Measures (PHI)	2.31	2.30	0.42	0.01	0.97
Grain Size (mm)	0.20	0.20			

## Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 75 cm Date 8-20-91 Profile Analysis Date 6-26-93 Analyz SA/RH  
 X Position : 24.45.07 Y Position : 87.35.19  
 Elevation of Top of Core : 115'  
 Length of Core : 400 cm  
 Depth to Top of Sample : 70 cm  
 Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight :	12.022	Final Weight :	11.950	Deviation :	0.599 g
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.707	0.000	0.000	0.000	91.038
0.75	0.595	0.013	0.109	0.109	97.356
1.00	0.500	0.040	0.335	0.444	98.310
1.25	0.420	0.090	0.753	1.197	98.879
1.50	0.354	0.170	1.423	2.619	99.264
1.75	0.297	0.485	4.059	6.678	99.431
2.00	0.250	2.234	18.695	25.372	99.649
2.25	0.210	1.828	15.297	40.669	99.808
2.50	0.177	3.234	27.063	67.732	100.000
2.75	0.149	1.869	15.640	83.372	

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.444	24.929	73.891
Unified Classification	0.000	0.000	1.197	97.682
				0.736
				1.121
				0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.34	2.33	0.45	0.01	0.97
0.20	0.20			

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

## Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 6-26-93 Analyz SA/RH  
 X Position : 24.45.07 Y Position : 87.35.19  
 Elevation of Top of Core : 115'  
 Length of Core : 400 cm  
 Depth to Top of Sample : 95 cm  
 Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight :	12.265	Final Weight :	12.185	Deviation :	0.652 g
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.707	0.000	0.000	0.000	91.090
0.75	0.595	0.014	0.115	0.115	97.292
1.00	0.500	0.047	0.386	0.501	98.203
1.25	0.420	0.079	0.648	1.149	98.753
1.50	0.354	0.143	1.174	2.323	99.155
1.75	0.297	0.381	3.127	5.449	99.335
2.00	0.250	2.099	17.226	22.675	99.590
2.25	0.210	1.822	14.953	37.628	99.746
2.50	0.177	3.750	30.776	68.404	100.000
2.75	0.149	1.885	15.470	83.874	

Sample Content by Weight Percent :

	Gravel	Sand		silt	clay
		coarse	medium		
Wentworth Classification	0.000	0.501	22.175	76.479	0.845
Unified Classification	0.000	0.000	1.149	97.604	1.247

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.35	2.34	0.42	0.78	6.72
0.20	0.20		0.02	1.01

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)



## Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 125 cm Date 8-20-91 Profile Analysis Date 6-26-93 Analyze SA/RM  
 X Position : 24:45.07 Y Position : 87:35.19  
 Elevation of Top of Core : 115'  
 Length of Core : 400 cm  
 Depth to Top of Sample : 120 cm  
 Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.251				Final Weight : 12.195				Deviation : 0.457			
PHI	MM	Weight	Cumul Percent	PHI	MM	Weight	Cumul Percent	PHI	MM	Weight	Cumul Percent
0.50	0.707	0.000	0.000	3.00	0.125	0.981	8.044	94.629			
0.75	0.595	0.012	0.098	3.25	0.105	0.409	3.354	97.983			
1.00	0.500	0.049	0.402	3.50	0.088	0.089	0.730	98.713			
1.25	0.420	0.110	0.902	3.75	0.074	0.051	0.418	99.131			
1.50	0.354	0.190	1.558	4.00	0.063	0.040	0.328	99.459			
1.75	0.297	0.557	4.567	4.25	0.053	0.015	0.123	99.582			
2.00	0.250	2.554	20.943	4.50	0.044	0.024	0.197	99.779			
2.25	0.210	1.947	15.966	4.75	0.037	0.014	0.115	99.899			
2.50	0.177	3.508	28.766	5.00	0.031	0.013	0.107	100.000			
2.75	0.149	1.632	13.383								
			86.595								

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	0.500	27.970	70.988	0.541	0.000		
0.000	0.000	1.402	97.729	0.869	0.000		
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
2.30		2.29	0.46	0.61	5.86		
0.20		2.28	0.43	-0.01	1.01		
Method of Moments (PHI)							
Folk Graphic Measures (PHI)							
Grain Size (mm)							

## Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 150 cm Date 8-20-91 Profile Analysis Date 6-27-93 Analyze SA/RM  
 X Position : 24:45.07 Y Position : 87:35.19  
 Elevation of Top of Core : 115'  
 Length of Core : 400 cm  
 Depth to Top of Sample : 145 cm  
 Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 12.317				Final Weight : 12.248				Deviation : 0.560			
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	PHI	MM	Weight	Percent
0.50	0.707	0.000	0.000	3.00	0.125	0.967	7.895	94.440			
0.75	0.595	0.022	0.180	3.25	0.105	0.430	3.429	97.869			
1.00	0.500	0.058	0.474	3.50	0.088	0.091	0.743	98.612			
1.25	0.420	0.122	0.996	3.75	0.074	0.056	0.457	99.069			
1.50	0.354	0.208	1.698	3.97	0.063	0.041	0.335	99.404			
1.75	0.297	0.602	4.915	4.25	0.053	0.018	0.147	99.551			
2.00	0.250	2.552	20.836	4.50	0.044	0.016	0.119	99.667			
2.25	0.210	1.927	15.733	4.75	0.037	0.017	0.139	99.802			
2.50	0.177	3.508	28.641	5.00	0.031	0.012	0.098	100.000			
2.75	0.149	1.601	13.072								
			86.545								

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	0.653	28.445	70.305	0.596	0.000		
0.000	0.000	1.649	97.420	0.911	0.000		
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
2.30		2.28	0.47	0.57	5.83		
0.20		2.28	0.44	-0.01	1.03		
Method of Moments (PHI)							
Folk Graphic Measures (PHI)							
Grain Size (mm)							

Offshore Alabama (ALA-91-16)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 175 cm 8-20-91 87:35.19 6-24-93 SA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 11.733 Final Weight : 11.669 Deviation : 0.545 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.894	24.801	74.137
0.50	0.707	0.000	0.000	0.000	2.75	0.149	1.494	12.803	86.940
0.75	0.595	0.047	0.403	0.403	3.00	0.125	0.918	7.867	94.807
1.00	0.500	0.110	0.943	1.345	3.25	0.105	0.379	3.248	98.055
1.25	0.420	0.184	1.577	2.922	3.50	0.088	0.075	0.643	98.697
1.50	0.354	0.299	2.562	5.485	3.75	0.074	0.045	0.386	99.083
1.75	0.297	0.690	5.913	11.398	4.00	0.063	0.030	0.257	99.340
2.00	0.250	2.743	23.507	34.904	4.25	0.053	0.017	0.146	99.486
2.25	0.210	1.684	14.431	49.336	4.50	0.044	0.060	0.514	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.345	33.559	64.436
Unified Classification	0.000	0.000	2.922	96.161

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.50	0.32	4.90
Folk Graphic Measures (PHI)		2.26	2.25	0.46	-0.03
Grain Size (mm)	0.21	0.21			1.03

Offshore Alabama (ALA-91-16)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 200 cm 8-20-91 87:35.19 6-27-93 SA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 12.037 Final Weight : 11.956 Deviation : 0.673 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	0.966	8.080	94.430
0.75	0.595	0.021	0.176	0.176	3.25	0.105	0.398	3.329	97.758
1.00	0.500	0.067	0.560	0.736	3.50	0.088	0.091	0.761	98.520
1.25	0.420	0.134	1.121	1.857	3.75	0.074	0.060	0.502	99.021
1.50	0.354	0.225	1.882	3.739	4.00	0.063	0.042	0.351	99.373
1.75	0.297	0.620	5.186	8.924	4.25	0.053	0.019	0.159	99.532
2.00	0.250	2.580	21.579	30.504	4.50	0.044	0.026	0.217	99.749
2.25	0.210	1.892	15.825	46.328	4.75	0.037	0.018	0.151	99.900
2.50	0.177	3.238	27.083	73.411	5.00	0.031	0.012	0.100	100.000
2.75	0.149	1.547	12.939	86.350					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.736	29.767	68.869
Unified Classification	0.000	0.000	1.857	97.165

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.27	0.48	0.58	5.70
Folk Graphic Measures (PHI)		2.28	2.27	0.44	-0.01
Grain Size (mm)	0.21	0.21			1.02

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 225 cm Date 8-20-91 Profile Analysis Date 6-27-93 Analyz SA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 12.374 Final Weight : 12.293 Deviation : 0.655 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	0.902	7.338	94.599
0.75	0.595	0.024	0.195	0.195	3.25	0.105	0.405	3.295	97.893
1.00	0.500	0.082	0.667	0.862	3.50	0.088	0.087	0.708	98.601
1.25	0.420	0.170	1.383	2.245	3.75	0.074	0.055	0.447	99.048
1.50	0.354	0.277	2.253	4.498	4.00	0.063	0.043	0.350	99.398
1.75	0.297	0.704	5.727	10.225	4.25	0.053	0.018	0.146	99.544
2.00	0.250	2.578	20.971	31.197	4.50	0.044	0.027	0.220	99.764
2.25	0.210	1.956	15.911	47.108	4.75	0.037	0.018	0.146	99.911
2.50	0.177	3.401	27.666	74.774	5.00	0.031	0.011	0.089	100.000
2.75	0.149	1.535	12.487	87.261					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.862	30.334	68.201	0.602	0.000
Unified Classification	0.000	0.000	2.245	96.803	0.952	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.26	0.49	0.51	5.63
Folk Graphic Measures (PHI)	2.28	2.26	0.45	-0.03	1.07
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 250 cm Date 8-20-91 Profile Analysis Date 6-24-93 Analyz SA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.984 Final Weight : 11.939 Deviation : 0.376 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	0.884	7.404	94.941
0.75	0.595	0.017	0.310	0.310	3.25	0.105	0.373	3.124	98.065
1.00	0.500	0.089	0.745	1.055	3.50	0.088	0.078	0.653	98.718
1.25	0.420	0.176	1.474	2.530	3.75	0.074	0.046	0.385	99.104
1.50	0.354	0.288	2.412	4.942	4.00	0.063	0.033	0.276	99.380
1.75	0.297	0.695	5.821	10.763	4.25	0.053	0.019	0.159	99.539
2.00	0.250	2.686	22.498	33.261	4.50	0.044	0.023	0.193	99.732
2.25	0.210	1.808	15.144	48.404	4.75	0.037	0.018	0.151	99.883
2.50	0.177	3.174	26.585	74.990	5.00	0.031	0.014	0.117	100.000
2.75	0.149	1.498	12.547	87.537					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	1.055	32.205	66.119	0.620	0.000
Unified Classification	0.000	0.000	2.530	96.574	0.896	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.24	0.49	0.47	5.68
Folk Graphic Measures (PHI)	2.27	2.25	0.45	-0.03	1.04
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-16)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 275 cm 8-20-91 6-26-93 SA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 12.918 Final Weight : 12.856 Deviation : 0.480 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	1.024	7.965	94.135
0.75	0.595	0.051	0.397	0.397	3.25	0.105	0.449	3.493	97.628
1.00	0.500	0.129	1.003	1.400	3.50	0.088	0.103	0.801	98.429
1.25	0.420	0.204	1.587	2.987	3.75	0.074	0.064	0.498	98.927
1.50	0.354	0.314	2.442	5.429	4.00	0.063	0.046	0.358	99.284
1.75	0.297	0.740	5.756	11.185	4.25	0.053	0.022	0.171	99.456
2.00	0.250	2.827	21.990	33.175	4.50	0.044	0.028	0.218	99.673
2.25	0.210	1.904	14.810	47.985	4.75	0.037	0.020	0.156	99.829
2.50	0.177	3.248	25.264	73.250	5.00	0.031	0.022	0.171	100.000
2.75	0.149	1.661	12.920	86.170					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.400	31.775	66.109
Unified Classification	0.000	0.000	2.987	95.940

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.25	0.52	0.46	5.56
Folk Graphic Measures (PHI)	2.27	2.26	0.47	-0.02	1.05
Grain Size (mm)	0.21	0.21			

Offshore Alabama (ALA-91-16)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 300 cm 8-20-91 6-26-93 SA/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 12.889 Final Weight : 12.803 Deviation : 0.667 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	1.183	9.240	92.533
0.75	0.595	0.052	0.406	0.406	3.25	0.105	0.562	4.390	96.923
1.00	0.500	0.115	0.898	1.304	3.50	0.088	0.133	1.039	97.961
1.25	0.420	0.171	1.336	2.640	3.75	0.074	0.086	0.672	98.633
1.50	0.354	0.242	1.890	4.530	4.00	0.063	0.059	0.461	99.094
1.75	0.297	0.615	4.804	9.334	4.25	0.053	0.028	0.219	99.313
2.00	0.250	2.470	19.292	28.626	4.50	0.044	0.036	0.281	99.594
2.25	0.210	1.856	14.497	43.123	4.75	0.037	0.021	0.164	99.758
2.50	0.177	3.364	26.275	69.398	5.00	0.031	0.031	0.242	100.000
2.75	0.149	1.779	13.895	83.293					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.304	27.322	70.468
Unified Classification	0.000	0.000	2.640	95.993

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.53	0.50	5.65
Folk Graphic Measures (PHI)	2.32	2.31	0.48	-0.00	1.02
Grain Size (mm)	0.20	0.20			

14-2-20

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 318 cm Date 8-20-91 Profile Analysis Date Analyz 9-1-93 TH/RH  
X Position : 24145.07 Y Position : 87135.19  
Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 315 cm  
Depth to Bottom of Sample : 320 cm

Comments : Thuy Bul

Start Weight : 12.833		Final Weight : 12.783		Deviation : 0.050	
PHI	MM	Weight	Percent	Cumul	Percent
-----		-----		-----	
-0.50	1.414	0.000	0.000	0.000	51.021
-0.25	1.189	0.116	0.907	0.907	24.087
0.00	1.000	0.130	1.017	1.924	12.861
0.25	0.841	0.106	0.829	2.754	7.698
0.50	0.707	0.063	0.493	3.246	3.200
0.75	0.595	0.074	0.579	3.825	0.602
1.00	0.500	0.122	0.954	4.780	0.297
1.25	0.420	0.207	1.619	6.399	0.038
1.50	0.354	0.279	2.183	8.582	0.022
1.75	0.297	0.730	5.711	14.292	0.006
2.00	0.250	2.925	22.882	37.174	0.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
-----		-----		-----		-----	
Wentworth Classification	0.000	4.780	32.395	62.763	0.063	0.000	0.000
Unified Classification	0.000	0.000	6.399	93.366	0.235	0.000	0.000

Standard Statistics :

Method of Moments (PHI)		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)		2.23		2.15		-1.36		6.82	
Grain Size (mm)		0.21		0.23		-0.13		1.26	

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 323 cm Date 8-20-91 Profile Analysis Date Analyz 9-1-93 TH/RH  
X Position : 24145.07 Y Position : 87135.19  
Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 325 cm

Comments : Thuy Bul

Start Weight : 12.051		Final Weight : 11.989		Deviation : 0.062	
PHI	MM	Weight	Percent	Cumul	Percent
-----		-----		-----	
-0.50	1.414	0.000	0.000	0.000	2.25
-0.25	1.189	0.137	1.143	1.143	0.210
0.00	1.000	0.117	0.976	2.119	2.50
0.25	0.841	0.133	1.276	3.395	0.177
0.50	0.707	0.080	0.667	4.062	2.75
0.75	0.595	0.068	0.567	4.629	0.125
1.00	0.500	0.115	0.959	5.588	0.105
1.25	0.420	0.170	1.410	7.006	0.088
1.50	0.354	0.234	1.952	8.958	0.074
1.75	0.297	0.620	5.171	14.130	0.055
2.00	0.250	2.518	21.169	35.299	0.032

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
-----		-----		-----		-----	
Wentworth Classification	0.000	5.588	29.711	64.551	0.150	0.000	0.000
Unified Classification	0.000	0.000	7.006	92.577	0.417	0.000	0.000

Standard Statistics :

Method of Moments (PHI)		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)		2.27		2.16		-1.33		6.49	
Grain Size (mm)		0.21		0.22		-0.18		1.34	

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 325 cm Date 8-20-91 Profile Analysis Date 6-26-93 Analyz SA/RM  
X Position : 24:45.07 Y Position : 87:35.19  
Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 12.239 Final Weight : 12.150 Deviation : 0.727 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	3.00	0.125	1.141	9.391	91.045
0.75	0.595	0.064	0.527	0.527	3.25	0.105	0.561	4.617	95.663
1.00	0.500	0.131	1.078	1.605	3.50	0.088	0.152	1.251	96.914
1.25	0.420	0.160	1.317	2.922	3.75	0.074	0.106	0.872	97.786
1.50	0.354	0.220	1.811	4.733	4.00	0.063	0.077	0.634	98.420
1.75	0.297	0.532	4.379	9.111	4.25	0.053	0.040	0.329	98.749
2.00	0.250	2.169	17.852	26.963	4.50	0.044	0.054	0.444	99.193
2.25	0.210	1.726	14.206	41.169	4.75	0.037	0.037	0.305	99.498
2.50	0.177	3.178	26.156	67.325	5.00	0.031	0.061	0.502	100.000
2.75	0.149	1.741	14.329	81.654					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	1.605	25.358	71.457	1.580	0.000
Unified Classification	0.000	0.000	2.922	94.864	2.214	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.34	0.57	0.70	6.06
Folk Graphic Measures (PHI)	2.33	2.33	0.50	0.01	1.05
Grain Size (mm)	0.20	0.20			

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 328 cm Date 8-20-91 Profile Analysis Date 8-27-93 Analyz TB/RM  
X Position : 24:45.07 Y Position : 87:35.19  
Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 325 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 12.182 Final Weight : 12.117 Deviation : 0.369 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	1.745	14.378	44.410
-0.50	1.414	0.011	0.091	0.091	2.50	0.177	2.918	24.042	68.452
-0.25	1.189	0.113	0.931	1.022	2.75	0.149	1.798	14.814	83.266
0.00	1.000	0.140	1.153	2.175	3.00	0.125	1.170	9.640	92.906
0.25	0.841	0.098	0.807	2.983	3.25	0.105	0.575	4.738	97.644
0.50	0.707	0.063	0.519	3.502	3.50	0.088	0.137	1.129	98.772
0.75	0.595	0.056	0.461	3.963	3.75	0.074	0.082	0.676	99.448
1.00	0.500	0.098	0.807	4.771	4.00	0.063	0.046	0.379	99.827
1.25	0.420	0.146	1.203	5.973	4.25	0.053	0.011	0.091	99.918
1.50	0.354	0.215	1.771	7.745	4.50	0.044	0.005	0.041	99.959
1.75	0.297	0.555	4.573	12.318	4.75	0.037	0.005	0.041	100.000
2.00	0.250	2.150	17.714	30.032					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.771	25.262	69.795	0.173	0.000
Unified Classification	0.000	0.000	5.973	93.474	0.552	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.66	-1.35	6.92
Folk Graphic Measures (PHI)	2.31	2.29	0.55	-0.13	1.24
Grain Size (mm)	0.20	0.21			

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 333 cm Date 8-20-91 Profile Analysis Date 8-27-93 Analyz TB/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 330 cm  
Depth to Bottom of Sample : 335 cm

Comments : Thuy Bul

Start Weight : 12.505 Final Weight : 12.445 Deviation : 0.480 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.380	19.124	33.781
-0.25	1.189	0.155	1.245	1.245	2.25	0.210	1.745	14.022	47.802
0.00	1.000	0.220	1.768	3.013	2.50	0.177	2.925	23.503	71.306
0.25	0.841	0.131	1.093	4.066	2.75	0.149	1.717	13.797	85.102
0.50	0.707	0.083	0.667	4.733	3.00	0.125	1.115	8.959	94.062
0.75	0.595	0.061	0.490	5.223	3.25	0.105	0.527	4.235	98.297
1.00	0.500	0.117	0.940	6.163	3.50	0.088	0.106	0.852	99.148
1.25	0.420	0.178	1.430	7.593	3.75	0.074	0.058	0.466	99.614
1.50	0.354	0.252	2.025	9.618	4.00	0.063	0.032	0.257	99.871
1.75	0.297	0.627	5.038	14.656	4.25	0.053	0.016	0.129	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	6.163	27.618	66.091
Unified Classification	0.000	0.000	7.593	92.021

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.16	0.70	-1.43	6.33
Folk Graphic Measures (PHI)	2.27	2.26	0.61	-0.20	1.45
Grain Size (mm)	0.21	0.22			

Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 338 cm Date 8-20-91 Profile Analysis Date 8-27-93 Analyz TB/RM

X Position : 24:45.07 Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 335 cm  
Depth to Bottom of Sample : 340 cm

Comments : Thuy Bul

Start Weight : 12.314 Final Weight : 12.299 Deviation : 0.122 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.25	0.210	1.542	12.538	39.979
-0.25	1.189	0.069	0.561	0.561	2.50	0.177	3.135	25.490	65.469
0.00	1.000	0.068	0.553	1.114	2.75	0.149	1.922	15.627	81.096
0.25	0.841	0.074	0.602	1.716	3.00	0.125	1.287	10.464	91.560
0.50	0.707	0.042	0.341	2.057	3.25	0.105	0.683	5.553	97.114
0.75	0.595	0.039	0.317	2.374	3.50	0.088	0.160	1.301	98.415
1.00	0.500	0.071	0.577	2.951	3.75	0.074	0.097	0.789	99.203
1.25	0.420	0.121	0.984	3.935	4.00	0.063	0.061	0.496	99.699
1.50	0.354	0.164	1.333	5.269	4.25	0.053	0.020	0.163	99.862
1.75	0.297	0.466	3.789	9.058	4.50	0.044	0.009	0.073	99.935
2.00	0.250	2.261	18.384	27.441	4.75	0.037	0.008	0.065	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.951	24.490	72.258
Unified Classification	0.000	0.000	3.935	95.268

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.30	0.60	-1.05	7.17
Folk Graphic Measures (PHI)	2.35	2.34	0.50	-0.04	1.02
Grain Size (mm)	0.20	0.20			

Offshore Alabama (ALA-91-16)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      343 cm      8-20-91           8-27-93      TB/RH  
X Position : 24:45.07      Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 340 cm  
Depth to Bottom of Sample : 345 cm

Comments : Thuy Bui

Start Weight : 12.040      Final Weight : 12.011      Deviation : 0.241 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.344	19.515	28.948
-0.25	1.189	0.038	0.316	0.316	2.25	0.210	1.747	14.545	43.493
0.00	1.000	0.075	0.624	0.941	2.50	0.177	3.235	26.934	70.427
0.25	0.841	0.074	0.616	1.557	2.75	0.149	1.836	15.286	85.713
0.50	0.707	0.041	0.341	1.898	3.00	0.125	1.070	8.909	94.622
0.75	0.595	0.046	0.383	2.281	3.25	0.105	0.481	4.005	98.626
1.00	0.500	0.068	0.566	2.847	3.50	0.088	0.096	0.799	99.426
1.25	0.420	0.111	0.924	3.772	3.75	0.074	0.042	0.350	99.775
1.50	0.354	0.179	1.490	5.262	4.00	0.063	0.016	0.133	99.908
1.75	0.297	0.501	4.171	9.433	4.25	0.053	0.011	0.092	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.847	26.101	70.960	0.092	0.000
Unified Classification	0.000	0.000	3.772	96.004	0.225	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.25	0.55	-1.27	7.54
Folk Graphic Measures (PHI)	2.31	2.29	0.46	-0.08	1.03
Grain Size (mm)	0.20	0.21			

Offshore Alabama (ALA-91-16)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      348 cm      8-20-91           9-1-93      TB/RH  
X Position : 24:45.07      Y Position : 87:35.19

Elevation of Top of Core : 115'  
Length of Core : 400 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 350 cm

Comments : Thuy Bui

Start Weight : 12.202      Final Weight : 12.160      Deviation : 0.344 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	2.325	19.120	28.363
-0.50	1.414	0.000	0.000	0.000	2.25	0.210	1.847	15.189	43.553
-0.25	1.189	0.032	0.263	0.263	2.50	0.177	3.023	24.860	68.413
0.00	1.000	0.065	0.535	0.798	2.75	0.149	1.744	14.342	82.755
0.25	0.841	0.050	0.411	1.209	3.00	0.125	1.103	9.071	91.826
0.50	0.707	0.027	0.222	1.431	3.25	0.105	0.600	4.934	96.760
0.75	0.595	0.036	0.296	1.727	3.50	0.088	0.160	1.316	98.076
1.00	0.500	0.077	0.633	2.360	3.75	0.074	0.099	0.814	98.890
1.25	0.420	0.111	0.913	3.273	4.00	0.063	0.058	0.477	99.367
1.50	0.354	0.194	1.595	4.868	4.25	0.053	0.077	0.633	100.000
1.75	0.297	0.532	4.375	9.243					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.360	26.003	71.003	0.633	0.000
Unified Classification	0.000	0.000	3.273	95.617	1.110	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.29	0.57	-0.66	6.63
Folk Graphic Measures (PHI)	2.31	2.31	0.49	0.01	1.03
Grain Size (mm)	0.20	0.20			



## Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 353 cm Date 8-20-91 Profile Analysis Date 9-1-93 TB/RM  
 X Position : 24:45.07 Y Position : 87:35.19  
 Elevation of Top of Core : 115'  
 Length of Core : 400 cm  
 Depth to Top of Sample : 350 cm  
 Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 12.848		Final Weight : 12.728		Deviation : 0.974	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	17.175
-0.25	1.189	0.079	0.621	0.621	27.255
0.00	1.000	0.063	0.495	1.116	47.604
0.25	0.841	0.072	0.566	1.681	63.836
0.50	0.707	0.035	0.275	1.956	77.569
0.75	0.595	0.038	0.299	2.255	87.869
1.00	0.500	0.046	0.361	2.616	91.468
1.25	0.420	0.061	0.479	3.096	94.422
1.50	0.354	0.105	0.825	3.920	96.386
1.75	0.297	0.297	2.333	6.254	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	2.616	14.558	79.211	3.614	0.000		
0.000	0.000	3.096	91.326	5.578	0.000		

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.54	2.56	0.71	-0.64	5.80
0.17	0.17	0.63	0.11	1.19

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

## Offshore Alabama (ALA-91-16)

Locality Shelf Type Sand Sample 358 cm Date 8-20-91 Profile Analysis Date 9-1-93 TB/RM  
 X Position : 24:45.07 Y Position : 87:35.19  
 Elevation of Top of Core : 115'  
 Length of Core : 400 cm  
 Depth to Top of Sample : 355 cm  
 Depth to Bottom of Sample : 360 cm

Comments : Thuy Bul

Start Weight : 12.222		Final Weight : 12.144		Deviation : 0.638	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	27.215
-0.25	1.189	0.011	0.091	0.091	49.177
0.00	1.000	0.024	0.196	0.286	65.275
0.25	0.841	0.021	0.173	0.461	78.434
0.50	0.707	0.018	0.148	0.609	88.579
0.75	0.595	0.014	0.115	0.725	92.243
1.00	0.500	0.037	0.305	1.029	95.422
1.25	0.420	0.055	0.453	1.482	97.521
1.50	0.354	0.090	0.741	2.223	98.542
1.75	0.297	0.290	2.388	4.611	99.201
2.00	0.250	1.491	12.278	16.889	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	1.029	15.860	80.632	2.479	0.000		
0.000	0.000	1.482	91.939	4.578	0.000		

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
2.51	2.57	0.63	0.16	4.94
0.18	0.17	0.59	0.16	1.09

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Sand Sample 5 cm Date 7-28-93 Profile Analysis Date 10-26-94 Analyz TB/RM  
X Position : 29:58.17 Y Position : 87:44.82  
Elevation of Top of Core : 102'  
Length of Core : 2.89 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 8.699 Final Weight : 8.643 Deviation : 0.644 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.676	7.821	20.051
0.25	0.841	0.003	0.035	0.035	2.50	0.177	1.453	16.811	36.862
0.50	0.707	0.005	0.058	0.093	2.75	0.149	1.579	18.269	55.131
0.75	0.595	0.006	0.069	0.162	3.00	0.125	1.700	19.669	74.800
1.00	0.500	0.029	0.336	0.498	3.25	0.105	1.345	15.562	90.362
1.25	0.420	0.042	0.486	0.983	3.50	0.088	0.366	4.235	94.597
1.50	0.354	0.062	0.717	1.701	3.75	0.074	0.137	1.585	96.182
1.75	0.297	0.161	1.863	3.564	4.00	0.063	0.095	1.099	97.281
2.00	0.250	0.749	8.666	12.230	4.25	0.053	0.235	2.719	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.498	11.732	85.051	2.719	0.000
Unified Classification	0.000	0.000	0.983	95.198	3.818	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.66	0.55	0.00	3.92
Folk Graphic Measures (PHI)	2.68	2.65	0.53	0.05	1.07
Grain Size (mm)	0.16	0.16			

Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Sand Sample 25 cm Date 7-28-93 Profile Analysis Date 10-31-94 Analyz TB/RM  
X Position : 29:58.17 Y Position : 87:44.82  
Elevation of Top of Core : 102'  
Length of Core : 2.89 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.285 Final Weight : 11.202 Deviation : 0.735 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.894	7.981	21.291
0.00	1.000	0.004	0.036	0.036	2.50	0.177	1.912	17.068	38.359
0.25	0.841	0.011	0.098	0.134	2.75	0.149	2.027	18.095	56.454
0.50	0.707	0.015	0.134	0.268	3.00	0.125	2.169	19.363	75.817
0.75	0.595	0.025	0.223	0.491	3.25	0.105	1.667	14.881	90.698
1.00	0.500	0.045	0.402	0.893	3.50	0.088	0.408	3.642	94.340
1.25	0.420	0.076	0.678	1.571	3.75	0.074	0.191	1.705	96.045
1.50	0.354	0.097	0.866	2.437	4.00	0.063	0.124	1.107	97.152
1.75	0.297	0.203	1.812	4.249	4.25	0.053	0.119	2.848	100.000
2.00	0.250	1.015	9.061	13.310					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.893	12.417	83.842	2.848	0.000
Unified Classification	0.000	0.000	1.571	94.474	3.955	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.64	0.58	-0.16	4.17
Folk Graphic Measures (PHI)	2.66	2.63	0.54	-0.03	1.09
Grain Size (mm)	0.16	0.16			

Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Sand Sample 50 cm Date 7-28-93 Profile 10-31-94 Analyze TB/RM  
X Position : 29:58.17 Y Position : 87:44.82  
Elevation of Top of Core : 102'  
Length of Core : 2.89 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 10.375		Final Weight : 10.257		Deviation : 1.117 %	
Phi	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.003	0.029	0.003	23.945
0.25	0.841	0.009	0.088	0.117	16.350
0.50	0.707	0.025	0.244	0.361	17.091
0.75	0.595	0.037	0.361	0.721	17.812
1.00	0.500	0.080	0.780	1.501	14.283
1.25	0.420	0.110	1.072	2.574	14.283
1.50	0.354	0.123	1.199	3.773	14.283
1.75	0.297	0.254	2.476	6.249	14.283
2.00	0.250	1.000	9.749	15.999	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Montworth Classification	0.000	1.501	14.497	80.189	3.812	0.000	
Unified Classification	0.000	0.000	2.574	92.434	4.992	0.000	
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
Method of Moments (Phi)		2.64	2.62	0.63	-0.17	4.04	
Folk Graphic Measures (Phi)		0.16	2.60	0.61	-0.04	1.19	
Grain Size (mm)							

Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Sand Sample 75 cm Date 7-28-93 Profile 10-31-94 Analyze TB/RM  
X Position : 29:58.17 Y Position : 87:44.82  
Elevation of Top of Core : 102'  
Length of Core : 2.89 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.281		Final Weight : 11.176		Deviation : 0.931 %	
Phi	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.039	0.349	0.349	20.025
0.25	0.841	0.027	0.242	0.591	16.312
0.50	0.707	0.017	0.152	0.743	16.312
0.75	0.595	0.035	0.313	1.056	18.593
1.00	0.500	0.052	0.465	1.521	20.517
1.25	0.420	0.067	0.599	2.121	20.517
1.50	0.354	0.089	0.796	2.917	26.312
1.75	0.297	0.190	1.700	4.617	36.312
2.00	0.250	0.904	8.089	12.706	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Montworth Classification	0.000	1.521	11.105	84.977	2.117	0.000	
Unified Classification	0.000	0.000	2.121	94.631	3.248	0.000	
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
Method of Moments (Phi)		2.68	2.64	0.59	-0.67	5.78	
Folk Graphic Measures (Phi)		0.16	2.64	0.53	-0.08	1.08	
Grain Size (mm)							

Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Band Sample 100 cm Date 7-28-93 Profile Analysis Date 10-11-94 Analyz TB/RM  
X Position : 29:58.17 Y Position : 87:44.82  
Elevation of Top of Core : 102'  
Length of Core : 2.89 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 8.381 Final Weight : 8.246 Deviation : 1.611 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.578	7.009	23.223
0.00	1.000	0.050	0.606	0.606	2.50	0.177	1.261	15.292	38.516
0.25	0.841	0.072	0.873	1.480	2.75	0.149	1.386	16.808	55.324
0.50	0.707	0.059	0.715	2.195	3.00	0.125	1.519	18.421	73.745
0.75	0.595	0.069	0.837	3.032	3.25	0.105	1.172	14.213	87.958
1.00	0.500	0.095	1.152	4.184	3.50	0.088	0.331	4.014	91.972
1.25	0.420	0.093	1.128	5.312	3.75	0.074	0.171	2.074	94.046
1.50	0.354	0.092	1.116	6.427	4.00	0.063	0.110	1.314	95.380
1.75	0.297	0.153	1.855	8.283	4.25	0.053	0.381	4.620	100.000
2.00	0.250	0.654	7.931	16.214					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	4.184	12.030	79.166	4.620	0.000
Unified Classification	0.000	0.000	5.312	88.734	5.954	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.61	0.74	-0.78	5.00
Folk Graphic Measure (PHI)	2.67	2.61	0.71	0.11	1.52
Grain Size (mm)	0.16	0.16			

Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Band Sample 125 cm Date 7-28-93 Profile Analysis Date 11-2-94 Analyz TB/RM  
X Position : 29:58.17 Y Position : 87:44.82  
Elevation of Top of Core : 102'  
Length of Core : 2.89 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 6.509 Final Weight : 6.482 Deviation : 0.415 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.423	6.526	20.503
0.25	0.841	0.023	0.355	0.355	2.50	0.177	0.976	15.057	35.560
0.50	0.707	0.031	0.478	0.833	2.75	0.149	1.073	16.554	52.114
0.75	0.595	0.046	0.710	1.543	3.00	0.125	1.261	19.454	71.567
1.00	0.500	0.071	1.095	2.638	3.25	0.105	1.129	17.417	88.985
1.25	0.420	0.063	0.972	3.610	3.50	0.088	0.349	5.384	94.369
1.50	0.354	0.061	0.941	4.551	3.75	0.074	0.202	3.116	97.485
1.75	0.297	0.117	1.805	6.356	4.00	0.063	0.145	2.237	99.722
2.00	0.250	0.494	7.621	13.977	4.25	0.053	0.018	0.278	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	2.638	11.339	85.745	0.278	0.000
Unified Classification	0.000	0.000	3.610	93.875	2.515	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.64	0.62	-0.92	4.86
Folk Graphic Measure (PHI)	2.72	2.66	0.58	-0.16	1.12
Grain Size (mm)	0.15	0.16			

## Offshore Alabama, AL (ALA 93 1)

Locality Shelf Type Sand Sample 150 cm Date 7-28-93 Profile Analysis Date 11-2-94 Analyz TN/RM  
 X Position : 29:58.17 Y Position : 87:44.82  
 Elevation of Top of Core : 102'  
 Length of Core : 2.89 m  
 Depth to Top of Sample : 145 cm  
 Depth to Bottom of Sample : 155 cm  
 Comments : Thuy Bul

Start Weight : 1.859 Final Weight : 1.856 Deviation : 0.161 %  

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
0.25	1.189	0.000	0.000	0.000	0.000	2.25	0.210	0.125	6.735	18.858	
0.00	1.000	0.000	0.000	0.000	0.000	2.50	0.177	0.256	13.793	32.651	
0.25	0.841	0.003	0.162	0.162	0.162	2.75	0.149	0.293	15.787	48.438	
0.50	0.707	0.003	0.162	0.323	0.323	3.00	0.125	0.340	18.319	66.756	
0.75	0.595	0.005	0.269	0.593	0.593	3.25	0.105	0.329	17.726	84.483	
1.00	0.500	0.010	0.539	1.131	1.131	3.50	0.088	0.123	6.627	91.110	
1.25	0.420	0.014	0.754	1.886	1.886	3.75	0.074	0.076	4.095	95.205	
1.50	0.354	0.019	1.024	2.909	2.909	4.00	0.063	0.072	3.879	99.084	
1.75	0.297	0.034	1.832	4.741	4.741	4.25	0.053	0.017	0.916	100.000	
2.00	0.250	0.137	7.381	12.123	12.123						

## Sample Content by Weight Percent :

	Gravel			Sand			Silt	Clay
	coarse	medium	fine					
Wentworth Classification	0.000	1.131	10.991	86.961	0.916	0.000		
Unified Classification	0.000	0.000	1.886	91.319	4.795	0.000		

## Standard Statistics :

Method of Moments (PHI)	Median			Mean	Dev.	Skew	Kurt
	coarse	medium	fine				
Folk Graphic Measures (PHI)	2.77	2.72	2.72	0.61	-0.49	3.99	
Grain Size (mm)	0.15	0.15	0.15		-0.08	1.07	

## Offshore Alabama, AL (ALA-93-1)

Locality Shelf Type Sand Sample 175 cm Date 7-28-93 Profile Analysis Date 11-2-94 Analyz TN/RM  
 X Position : 29:58.17 Y Position : 87:44.82  
 Elevation of Top of Core : 102'  
 Length of Core : 2.89 m  
 Depth to Top of Sample : 170 cm  
 Depth to Bottom of Sample : 180 cm  
 Comments : Thuy Bul

Start Weight : 6.567 Final Weight : 6.532 Deviation : 0.533 %  

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
0.25	1.189	0.000	0.000	0.000	0.000	2.25	0.210	0.432	6.614	19.657	
0.00	1.000	0.009	0.138	0.138	0.138	2.50	0.177	0.973	14.896	34.553	
0.25	0.841	0.037	0.566	0.704	0.704	2.75	0.149	1.128	17.269	51.822	
0.50	0.707	0.031	0.475	1.179	1.179	3.00	0.125	1.355	20.744	72.566	
0.75	0.595	0.035	0.536	1.715	1.715	3.25	0.105	1.165	17.835	90.401	
1.00	0.500	0.064	0.980	2.694	2.694	3.50	0.088	0.330	5.052	95.453	
1.25	0.420	0.052	0.796	3.491	3.491	3.75	0.074	0.176	2.694	98.140	
1.50	0.354	0.099	4.627	4.317	4.317	4.00	0.063	0.108	1.653	99.801	
1.75	0.297	0.099	1.516	5.833	5.833	4.25	0.053	0.013	0.199	100.000	
2.00	0.250	0.471	7.211	13.043	13.043						

## Sample Content by Weight Percent :

	Gravel			Sand			Silt	Clay
	coarse	medium	fine					
Wentworth Classification	0.000	2.694	10.349	86.758	0.199	0.000		
Unified Classification	0.000	0.000	3.491	94.657	1.852	0.000		

## Standard Statistics :

Method of Moments (PHI)	Median			Mean	Dev.	Skew	Kurt
	coarse	medium	fine				
Folk Graphic Measures (PHI)	2.72	2.67	2.64	0.61	-1.15	5.77	
Grain Size (mm)	0.15	0.15	0.16		-0.18	1.10	

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 5 cm Date 7-29-93 Profile Analysis Date 12-2-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:14.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 7.096 Final Weight : 7.022 Deviation : 1.043 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.234	17.573	48.975
0.00	1.000	0.009	0.128	0.128	2.50	0.177	1.646	23.441	72.415
0.25	0.841	0.002	0.028	0.157	2.75	0.149	0.911	12.974	85.389
0.50	0.707	0.004	0.057	0.214	3.00	0.125	0.573	8.160	93.549
0.75	0.595	0.007	0.100	0.313	3.25	0.105	0.274	3.902	97.451
1.00	0.500	0.016	0.228	0.541	3.50	0.088	0.061	0.869	98.320
1.25	0.420	0.039	0.555	1.097	3.75	0.074	0.035	0.498	98.818
1.50	0.354	0.085	1.210	2.307	4.00	0.063	0.026	0.370	99.188
1.75	0.297	0.309	4.400	6.707	4.25	0.053	0.057	0.812	100.000
2.00	0.250	1.734	24.694	31.401					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.541	30.860	67.787	0.812	0.000
Unified Classification	0.000	0.000	1.097	97.721	1.182	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt.
Method of Moments (PHI)		2.28	0.48	0.47	5.38
Folk Graphic Measures (PHI)	2.26	2.28	0.44	0.10	0.96
Grain Size (mm)	0.21	0.21			

Offshore Alabama, AL (ALA-93 2)

Locality Shelf Type Sand Sample 25 cm Date 7-29-93 Profile Analysis Date 12-2-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:14.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 9.316 Final Weight : 9.276 Deviation : 0.429 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.095	11.805	82.040
0.00	1.000	0.000	0.000	0.000	2.50	0.177	0.929	10.015	92.055
0.25	0.841	0.010	0.108	0.108	2.75	0.149	0.352	3.795	95.850
0.50	0.707	0.015	0.162	0.270	3.00	0.125	0.192	2.070	97.919
0.75	0.595	0.055	0.593	0.862	3.25	0.105	0.107	1.154	99.073
1.00	0.500	0.244	2.630	3.493	3.50	0.088	0.033	0.356	99.429
1.25	0.420	0.592	6.382	9.875	3.75	0.074	0.020	0.216	99.644
1.50	0.354	0.803	8.657	18.532	4.00	0.063	0.012	0.129	99.774
1.75	0.297	1.576	16.990	35.522	4.25	0.053	0.021	0.226	100.000
2.00	0.250	3.220	34.713	70.235					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.493	66.742	29.539	0.226	0.000
Unified Classification	0.000	0.000	9.875	89.769	0.356	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt.
Method of Moments (PHI)		1.86	0.48	0.46	4.96
Folk Graphic Measures (PHI)	1.85	1.86	0.47	0.02	1.32
Grain Size (mm)	0.25	0.27			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 50 cm Date 7-29-93 Profile Analysis Date 12-2-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.060 Final Weight : 11.009 Deviation : 0.461 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.038	9.429	87.229
0.00	1.000	0.016	0.145	0.145	2.50	0.177	0.831	7.548	94.777
0.25	0.841	0.037	0.336	0.481	2.75	0.149	0.286	2.598	97.375
0.50	0.707	0.068	0.618	1.099	3.00	0.125	0.150	1.363	98.737
0.75	0.595	0.166	1.508	2.607	3.25	0.105	0.080	0.727	99.464
1.00	0.500	0.551	5.023	7.630	3.50	0.088	0.023	0.209	99.673
1.25	0.420	1.029	9.347	16.977	3.75	0.074	0.013	0.118	99.791
1.50	0.354	1.189	10.800	27.777	4.00	0.063	0.007	0.064	99.855
1.75	0.297	1.970	17.894	45.672	4.25	0.053	0.016	0.145	100.000
2.00	0.250	3.537	32.128	77.800					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	7.630	70.170	22.055
Unified Classification	0.000	0.000	16.977	82.814

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.73	0.51	0.09	4.53
Folk Graphic Measures (PHI)	1.78	1.72	0.49	-0.15	1.25
Grain Size (mm)	0.29	0.30			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 75 cm Date 7-29-93 Profile Analysis Date 12-2-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 9.236 Final Weight : 9.143 Deviation : 1.007 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.926	10.128	79.613
0.00	1.000	0.026	0.284	0.284	2.50	0.177	0.846	9.253	88.866
0.25	0.841	0.044	0.481	0.766	2.75	0.149	0.361	3.948	92.814
0.50	0.707	0.092	1.006	1.772	3.00	0.125	0.229	2.505	95.319
0.75	0.595	0.171	1.870	3.642	3.25	0.105	0.160	1.750	97.069
1.00	0.500	0.533	5.830	9.472	3.50	0.088	0.067	0.733	97.802
1.25	0.420	0.803	8.783	18.254	3.75	0.074	0.047	0.514	98.316
1.50	0.354	0.817	9.155	27.409	4.00	0.063	0.035	0.383	98.698
1.75	0.297	1.322	14.459	41.868	4.25	0.053	0.119	1.302	100.000
2.00	0.250	2.525	27.617	69.485					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	9.472	60.013	29.214
Unified Classification	0.000	0.000	18.254	80.061

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.82	0.66	0.57	4.68
Folk Graphic Measures (PHI)	1.82	1.79	0.62	-0.01	1.26
Grain Size (mm)	0.28	0.28			

## Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 100 cm Date 7-29-93 Profile Analysis Date 12-2-94 TB/RM Analyz  
 X Position : 29:54.65 Y Position : 87:34.99  
 Elevation of Top of Core : 108'  
 Length of Core : 5.60 m  
 Depth to Top of Sample : 95 cm  
 Depth to Bottom of Sample : 105 cm  
 Comments : Thuy Bui

Start Weight	8.460	Final Weight	8.266	Deviation	2.293	%
PHI	MM	Weight	Percent	Cumul	Percent	
-0.25	1.189	0.000	0.000	0.000	63.477	
0.00	1.000	0.017	0.206	0.206	11.856	
0.25	0.841	0.016	0.194	0.399	12.412	75.889
0.50	0.707	0.026	0.315	0.714	6.448	82.337
0.75	0.595	0.046	0.556	1.270	4.561	86.898
1.00	0.500	0.193	2.335	3.605	3.351	90.249
1.25	0.420	0.456	5.428	9.033	1.428	91.677
1.50	0.354	0.426	5.078	13.111	1.163	92.838
1.75	0.297	0.933	11.287	24.398	0.861	93.699
2.00	0.250	2.206	26.688	51.621	0.511	6.162
					100.000	

Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Weightworth Classification	0.000	3.605	48.016	42.197	6.182	0.000
Unified Classification	0.000	0.000	7.888	84.950	7.162	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		2.17	0.78	0.83	3.88	
Folk Graphic Measure (PHI)	1.98	2.13	0.77	0.36	1.66	
Grain Size (mm)	0.25	0.22				

\*\*\* Silt &amp; clay exceeds 5 0%. Fine grain analysis may be required. \*\*\*

## Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 125 cm Date 7-29-93 Profile Analysis Date 12-9-94 TB/RM Analyz  
 X Position : 29:54.65 Y Position : 87:34.99  
 Elevation of Top of Core : 108'  
 Length of Core : 5.60 m  
 Depth to Top of Sample : 120 cm  
 Depth to Bottom of Sample : 130 cm  
 Comments : Thuy Bui

Start Weight	11.115	Final Weight	11.119	Deviation	1.732	%
PHI	MM	Weight	Percent	Cumul	Percent	
-0.25	1.189	0.000	0.000	0.000	12.231	48.431
0.00	1.000	0.016	0.144	0.144	2.043	18.374
0.25	0.841	0.043	0.387	0.531	1.261	11.341
0.50	0.707	0.042	0.378	0.908	0.840	7.555
0.75	0.595	0.078	0.702	1.610	3.250	0.105
1.00	0.500	0.184	1.655	3.265	0.612	5.504
1.25	0.420	0.345	3.099	6.364	0.213	1.916
1.50	0.354	0.354	3.153	9.517	3.705	0.074
1.75	0.297	0.755	6.720	16.237	4.000	0.063
2.00	0.250	2.210	19.876	36.139	4.225	0.053
					4.434	100.000

Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Weightworth Classification	0.000	3.265	32.935	59.367	4.434	0.000
Unified Classification	0.000	0.000	6.098	88.443	5.459	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		2.30	0.73	0.34	3.82	
Folk Graphic Measure (PHI)	2.27	2.32	0.71	0.14	1.35	
Grain Size (mm)	0.21	0.20				



Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 150 cm Date 7-29-93 Profile Analysis Date 12-9-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 8.071 Final Weight : 7.947 Deviation : 1.536 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.987	12.420	52.963
0.00	1.000	0.009	0.113	0.113	2.50	0.177	1.271	15.993	68.957
0.25	0.841	0.020	0.252	0.365	2.75	0.149	0.781	9.828	78.784
0.50	0.707	0.018	0.227	0.591	3.00	0.125	0.532	6.694	85.479
0.75	0.595	0.042	0.529	1.120	3.25	0.105	0.392	4.933	90.411
1.00	0.500	0.155	1.950	3.070	3.50	0.088	0.142	1.787	92.198
1.25	0.420	0.274	3.448	6.518	3.75	0.074	0.105	1.321	93.520
1.50	0.354	0.348	4.379	10.897	4.00	0.063	0.075	0.944	94.463
1.75	0.297	0.692	8.708	19.605	4.25	0.053	0.440	5.537	100.000
2.00	0.250	1.664	20.939	40.544					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.070	37.473	53.920
Unified Classification	0.000	0.000	6.518	87.001

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.28	0.75	0.56	3.62
Folk Graphic Measures (PHI)	2.19	2.26	0.76	0.22	1.41
Grain Size (mm)	0.22	0.21			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 175 cm Date 7-29-93 Profile Analysis Date 12-9-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 7.706 Final Weight : 7.575 Deviation : 1.700 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.077	14.218	51.472
0.00	1.000	0.003	0.040	0.040	2.50	0.177	1.428	18.851	70.323
0.25	0.841	0.004	0.053	0.092	2.75	0.149	0.808	10.667	80.990
0.50	0.707	0.005	0.066	0.158	3.00	0.125	0.521	6.878	87.868
0.75	0.595	0.012	0.158	0.317	3.25	0.105	0.366	4.832	92.700
1.00	0.500	0.054	0.713	1.030	3.50	0.088	0.123	1.624	94.323
1.25	0.420	0.146	1.927	2.957	3.75	0.074	0.085	1.122	95.446
1.50	0.354	0.252	3.327	6.284	4.00	0.063	0.062	0.818	96.264
1.75	0.297	0.555	7.327	13.611	4.25	0.053	0.283	3.736	100.000
2.00	0.250	1.791	23.644	37.254					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.030	36.224	59.010
Unified Classification	0.000	0.000	2.957	92.488

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.30	0.64	0.79	4.20
Folk Graphic Measures (PHI)	2.22	2.29	0.61	0.22	1.25
Grain Size (mm)	0.21	0.20			

Offshore Alabama, Al. (ALA-93-2)

Locality Shelf Type Sand Sample 200 cm Date 7-29-93 Profile Analyzin Date 12-9-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 6.753 Final Weight : 6.619 Deviation : 1.984 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.968	14.625	55.114
0.00	1.000	0.003	0.045	0.045	2.50	0.177	1.329	20.079	75.193
0.25	0.841	0.009	0.136	0.181	2.75	0.149	0.714	10.787	85.980
0.50	0.707	0.017	0.257	0.438	3.00	0.125	0.439	6.632	92.612
0.75	0.595	0.030	0.453	0.891	3.25	0.105	0.272	4.109	96.722
1.00	0.500	0.112	1.692	2.583	3.50	0.088	0.041	0.619	97.341
1.25	0.420	0.199	3.006	5.590	3.75	0.074	0.043	0.650	97.991
1.50	0.354	0.257	3.881	9.473	4.00	0.063	0.034	0.514	98.504
1.75	0.297	0.506	7.645	17.117	4.25	0.053	0.099	1.496	100.000
2.00	0.250	1.547	23.372	40.489					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.583	37.906	58.015
Unified Classification	0.000	0.000	5.590	92.401

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.18	0.59	0.32	4.45
Folk Graphic Measures (PHI)		2.16	2.19	0.54	0.05
Grain Size (mm)		0.22	0.22		

Offshore Alabama, Al. (ALA-93-2)

Locality Shelf Type Sand Sample 225 cm Date 7-29-93 Profile Analyzin Date 12-9-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 7.299 Final Weight : 7.205 Deviation : 1.288 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.041	14.448	47.717
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.512	20.985	68.702
0.25	0.841	0.001	0.014	0.014	2.75	0.149	0.899	12.477	81.180
0.50	0.707	0.002	0.028	0.042	3.00	0.125	0.584	8.105	89.285
0.75	0.595	0.004	0.056	0.097	3.25	0.105	0.385	5.344	94.629
1.00	0.500	0.041	0.569	0.666	3.50	0.088	0.129	1.790	96.419
1.25	0.420	0.124	1.721	2.387	3.75	0.074	0.076	1.055	97.474
1.50	0.354	0.205	2.845	5.232	4.00	0.063	0.051	0.708	98.182
1.75	0.297	0.449	6.232	11.464	4.25	0.053	0.131	1.818	100.000
2.00	0.250	1.571	21.804	33.269					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.666	32.602	64.913
Unified Classification	0.000	0.000	2.387	95.087

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.57	0.62	4.06
Folk Graphic Measures (PHI)		2.28	2.31	0.53	0.10
Grain Size (mm)		0.21	0.20		

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 250 cm Date 7-29-93 Profile Analysis Date 12-9-94 Analyz TH/RM  
X Position : 29:54.65 Y Position : 87:34.99  
Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bui

Start Weight : 7.803 Final Weight : 7.704 Deviation : 1.269 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.105	14.343	47.741
0.00	1.000	0.001	0.013	0.013	2.50	0.177	1.605	20.833	68.575
0.25	0.841	0.000	0.000	0.013	2.75	0.149	0.965	12.526	81.101
0.50	0.707	0.003	0.039	0.052	3.00	0.125	0.633	8.217	89.317
0.75	0.595	0.007	0.091	0.143	3.25	0.105	0.404	5.244	94.561
1.00	0.500	0.051	0.662	0.805	3.50	0.088	0.139	1.804	96.366
1.25	0.420	0.148	1.921	2.726	3.75	0.074	0.086	1.116	97.482
1.50	0.354	0.234	3.037	5.763	4.00	0.063	0.053	0.688	98.170
1.75	0.297	0.480	6.231	11.994	4.25	0.053	0.141	1.830	100.000
2.00	0.250	1.649	21.404	33.398					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.805	32.593	64.772
Unified Classification	0.000	0.000	2.726	94.756

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.30	0.58	0.57	4.03
Folk Graphic Measures (PHI)	2.28	2.30	0.54	0.09	1.06
Grain Size (mm)	0.21	0.20			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 275 cm Date 7-29-93 Profile Analysis Date 12-9-94 Analyz TH/RM  
X Position : 29:54.65 Y Position : 87:34.99  
Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 9.656 Final Weight : 9.562 Deviation : 0.973 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.298	13.575	54.351
0.00	1.000	0.004	0.042	0.042	2.50	0.177	1.822	19.055	73.405
0.25	0.841	0.021	0.220	0.261	2.75	0.149	1.025	10.720	84.125
0.50	0.707	0.025	0.261	0.523	3.00	0.125	0.666	6.965	91.090
0.75	0.595	0.051	0.533	1.056	3.25	0.105	0.417	4.361	95.451
1.00	0.500	0.197	2.060	3.117	3.50	0.088	0.142	1.485	96.936
1.25	0.420	0.325	3.399	6.515	3.75	0.074	0.088	0.920	97.856
1.50	0.354	0.412	4.309	10.824	4.00	0.063	0.053	0.554	98.410
1.75	0.297	0.755	7.896	18.720	4.25	0.053	0.152	1.590	100.000
2.00	0.250	2.109	22.056	40.776					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.117	37.659	57.634
Unified Classification	0.000	0.000	6.515	91.341

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.19	0.63	0.27	4.04
Folk Graphic Measures (PHI)	2.17	2.19	0.59	0.04	1.19
Grain Size (mm)	0.22	0.22			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 300 cm Date 7-29-93 Profile Analysis Date 12-9-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:14.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 9.056 Final Weight : 8.976 Deviation : 0.883 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.204	13.414	54.167
0.00	1.000	0.003	0.033	0.033	2.50	0.177	1.748	19.474	73.641
0.25	0.841	0.016	0.178	0.212	2.75	0.149	0.997	11.107	84.748
0.50	0.707	0.034	0.379	0.590	3.00	0.125	0.636	7.086	91.834
0.75	0.595	0.072	0.802	1.393	3.25	0.105	0.384	4.278	96.112
1.00	0.500	0.200	2.228	3.621	3.50	0.088	0.122	1.359	97.471
1.25	0.420	0.314	3.498	7.119	3.75	0.074	0.071	0.791	98.262
1.50	0.354	0.382	4.256	11.375	4.00	0.063	0.040	0.446	98.708
1.75	0.297	0.654	7.286	18.661	4.25	0.053	0.116	1.292	100.000
2.00	0.250	1.983	22.092	40.753					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Hewitworth Classification	0.000	3.621	37.132	57.955
Unified Classification	0.000	0.000	7.119	91.143

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.18	0.62	0.14	3.99
Folk Graphic Measures (PHI)	2.17	2.19	0.58	0.01	1.21
Grain Size (mm)	0.22	0.22			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 325 cm Date 7-29-93 Profile Analysis Date 12-12-94 Analyz TB/RM

X Position : 29:54.65 Y Position : 87:14.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 9.385 Final Weight : 9.264 Deviation : 1.289 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.273	13.741	53.994
0.00	1.000	0.003	0.032	0.032	2.50	0.177	1.773	19.139	73.133
0.25	0.841	0.016	0.173	0.205	2.75	0.149	1.002	10.816	83.949
0.50	0.707	0.027	0.291	0.497	3.00	0.125	0.653	7.049	90.997
0.75	0.595	0.049	0.529	1.025	3.25	0.105	0.429	4.631	95.628
1.00	0.500	0.185	1.997	3.022	3.50	0.088	0.142	1.533	97.161
1.25	0.420	0.313	3.379	6.401	3.75	0.074	0.082	0.885	98.046
1.50	0.354	0.374	4.037	10.438	4.00	0.063	0.050	0.540	98.586
1.75	0.297	0.740	7.988	18.426	4.25	0.053	0.131	1.414	100.000
2.00	0.250	2.022	21.826	40.253					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Hewitworth Classification	0.000	3.022	37.230	59.333
Unified Classification	0.000	0.000	6.401	91.645

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.20	0.62	0.24	3.98
Folk Graphic Measures (PHI)	2.18	2.20	0.58	0.01	1.18
Grain Size (mm)	0.22	0.22			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 350 cm Date 7-29-93 Profile Analysis Date 12-12-94 Analyz TR/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 10.238 Final Weight : 10.149 Deviation : 0.869 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.390	13.696	51.296
0.00	1.000	0.005	0.049	0.049	2.50	0.177	2.011	19.815	71.110
0.25	0.841	0.010	0.099	0.148	2.75	0.149	1.207	11.893	83.003
0.50	0.707	0.025	0.246	0.394	3.00	0.125	0.781	7.695	90.699
0.75	0.595	0.047	0.463	0.657	3.25	0.105	0.489	4.818	95.517
1.00	0.500	0.153	1.508	2.365	3.50	0.088	0.163	1.606	97.123
1.25	0.420	0.304	2.995	5.360	3.75	0.074	0.093	0.916	98.039
1.50	0.354	0.392	3.862	9.223	4.00	0.063	0.058	0.571	98.611
1.75	0.297	0.713	7.025	16.248	4.25	0.053	0.141	1.389	100.000
2.00	0.250	2.167	21.352	37.600					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	2.365	35.235	61.011	1.389	0.000
Unified Classification	0.000	0.000	5.360	92.679	1.961	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.61	0.24	4.01
Folk Graphic Measures (PHI)	2.23	2.25	0.56	0.03	1.13
Grain Size (mm)	0.21	0.21			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 375 cm Date 7-29-93 Profile Analysis Date 12-12-94 Analyz TR/RM

X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bui

Start Weight : 7.884 Final Weight : 7.818 Deviation : 0.837 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.058	13.533	51.126
0.00	1.000	0.004	0.051	0.051	2.50	0.177	1.623	20.760	71.885
0.25	0.841	0.026	0.333	0.384	2.75	0.149	0.944	12.075	83.960
0.50	0.707	0.030	0.384	0.767	3.00	0.125	0.609	7.790	91.750
0.75	0.595	0.057	0.729	1.497	3.25	0.105	0.365	4.669	96.419
1.00	0.500	0.154	1.970	3.466	3.50	0.088	0.111	1.420	97.838
1.25	0.420	0.229	2.929	6.395	3.75	0.074	0.059	0.755	98.593
1.50	0.354	0.293	3.748	10.143	4.00	0.063	0.034	0.435	99.028
1.75	0.297	0.522	6.677	16.820	4.25	0.053	0.076	0.972	100.000
2.00	0.250	1.624	20.773	37.593					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.466	34.126	61.435	0.972	0.000
Unified Classification	0.000	0.000	6.395	92.197	1.407	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.21	0.61	0.05	4.10
Folk Graphic Measures (PHI)	2.23	2.23	0.57	0.03	1.17
Grain Size (mm)	0.21	0.22			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 400 cm Date 7-29-93 Profile Analysis Date 12-12-94 Analyz TB/RM  
X Position : 29:54.65 Y Position : 87:34.99  
Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bui

Start Weight : 9.205 Final Weight : 9.118 Deviation : 0.945 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.237	13.567	52.106
0.00	1.000	0.010	0.110	0.110	2.50	0.177	1.803	19.774	71.880
0.25	0.841	0.033	0.362	0.472	2.75	0.149	1.072	11.757	83.637
0.50	0.707	0.036	0.395	0.866	3.00	0.125	0.693	7.600	91.237
0.75	0.595	0.075	0.823	1.689	3.25	0.105	0.427	4.683	95.920
1.00	0.500	0.184	2.018	3.707	3.50	0.088	0.136	1.492	97.412
1.25	0.420	0.281	3.082	6.789	3.75	0.074	0.075	0.823	98.234
1.50	0.354	0.342	3.751	10.540	4.00	0.063	0.045	0.494	98.728
1.75	0.297	0.633	6.942	17.482	4.25	0.053	0.116	1.272	100.000
2.00	0.250	1.920	21.057	38.539					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.707	34.832	60.189	1.272	0.000
Unified Classification	0.000	0.000	6.789	91.445	1.766	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.20	0.63	0.01	4.13
Folk Graphic Measures (PHI)	2.21	2.22	0.58	-0.01	1.18
Grain Size (mm)	0.22	0.22			

Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 425 cm Date 7-29-93 Profile Analysis Date 12-12-94 Analyz TB/RM  
X Position : 29:54.65 Y Position : 87:34.99  
Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 420 cm  
Depth to Bottom of Sample : 430 cm

Comments : Thuy Bui

Start Weight : 7.625 Final Weight : 7.551 Deviation : 0.970 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.007	13.336	52.682
0.00	1.000	0.014	0.185	0.185	2.50	0.177	1.453	19.242	71.924
0.25	0.841	0.023	0.305	0.490	2.75	0.149	0.857	11.349	83.274
0.50	0.707	0.040	0.530	1.020	3.00	0.125	0.577	7.641	90.915
0.75	0.595	0.068	0.901	1.920	3.25	0.105	0.363	4.807	95.722
1.00	0.500	0.184	2.437	4.357	3.50	0.088	0.120	1.589	97.312
1.25	0.420	0.272	3.602	7.959	3.75	0.074	0.066	0.874	98.186
1.50	0.354	0.299	3.960	11.919	4.00	0.063	0.040	0.530	98.715
1.75	0.297	0.524	6.939	18.858	4.25	0.053	0.097	1.285	100.000
2.00	0.250	1.547	20.487	39.346					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.357	34.989	59.370	1.285	0.000
Unified Classification	0.000	0.000	7.959	90.226	1.814	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.19	0.65	-0.03	3.97
Folk Graphic Measures (PHI)	2.20	2.21	0.61	-0.02	1.20
Grain Size (mm)	0.22	0.22			

## Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 450 cm Date 7-29-93 Profile Analysis Date Analyz TB/RM 12-12-94

X Position : 29.54.65 Y Position : 07.34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 445 cm  
Depth to Bottom of Sample : 455 cm

Comments : Thuy Rui

Start Weight : 9.210 Final Weight : 8.800 Deviation : 4.452 %			
PHI	MM	Weight Percent	Cumul Percent
0.25	1.189	0.000	0.000
0.00	1.000	0.021	0.219
0.25	0.841	0.030	0.341
0.50	0.707	0.048	0.545
0.75	0.595	0.077	0.875
1.00	0.500	0.185	2.102
1.25	0.420	0.286	3.250
1.50	0.354	0.318	4.841
1.75	0.297	0.615	6.989
2.00	0.250	2.034	23.114
			41.295

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine			
0.000	4.102	37.193	57.330	1.375	0.000		
0.000	0.000	7.352	90.807	1.841	0.000		
Standard Statistics :							
Median				Mean	Dev.	Skew	Kurt
2.15				2.20	0.66	-0.02	1.83
0.23				2.23	0.62	0.09	1.06
Method of Moments (PHI)							
Folk Graphic Measures (PHI)							
Grain Size (mm)							

## Offshore Alabama, AL (ALA-93-2)

Locality Shelf Type Sand Sample 475 cm Date 7-29-93 Profile Analysis Date Analyz TB/RM 12-12-94

X Position : 29.54.65 Y Position : 07.34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 470 cm  
Depth to Bottom of Sample : 400 cm

Comments : Thuy Rui

Start Weight : 7.386 Final Weight : 7.231 Deviation : 2.099 %			
PHI	MM	Weight Percent	Cumul Percent
0.25	1.189	0.000	0.000
0.00	1.000	0.010	0.138
0.25	0.841	0.007	0.235
0.50	0.707	0.017	0.235
0.75	0.595	0.025	0.346
1.00	0.500	0.092	1.272
1.25	0.420	0.144	1.991
1.50	0.354	0.185	2.558
1.75	0.297	0.339	4.688
2.00	0.250	1.159	18.794
			30.120

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine			
0.000	2.088	28.032	66.270	3.609	0.000		
0.000	0.000	4.080	90.900	5.020	0.000		
Standard Statistics :							
Median				Mean	Dev.	Skew	Kurt
2.33				2.40	0.70	0.32	1.52
0.20				2.41	0.69	0.19	1.13
Method of Moments (PHI)							
Folk Graphic Measures (PHI)							
Grain Size (mm)							

Offshore Alabama, AL (ALA-93-2)																	
Locality Shelf	Type Sand	Sample 500 cm	Date 7-29-93	Profile	Analysis Date 12-15-94	Analyz TB/RM											
		X Position : 29:54.65	Y Position : 87:34.99														
		Elevation of Top of Core : 108'															
		Length of Core : 5.60 m															
		Depth to Top of Sample : 495 cm															
		Depth to Bottom of Sample : 505 cm															
Comments : Thuy Bui																	
Start Weight : 7.931		Final Weight : 7.842		Deviation : 1.122 %													
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent								
0.25	1.189	0.000	0.000	0.000	45.014	2.25	0.210	1.012	12.905								
0.00	1.000	0.004	0.051	0.051	66.182	2.50	0.177	1.660	21.168								
0.25	0.841	0.021	0.268	0.319	80.158	2.75	0.149	1.096	13.976								
0.50	0.707	0.030	0.383	0.701	89.977	3.00	0.125	0.770	9.819								
0.75	0.595	0.063	0.803	1.505	95.792	3.25	0.105	0.456	5.815								
1.00	0.500	0.142	1.811	3.315	97.373	3.50	0.088	0.124	1.581								
1.25	0.420	0.207	2.640	5.955	98.189	3.75	0.074	0.064	0.816								
1.50	0.354	0.240	3.060	9.016	98.699	4.00	0.063	0.040	0.510								
1.75	0.297	0.437	5.573	14.588	99.699	4.25	0.053	0.102	1.301								
2.00	0.250	1.374	17.521	32.109	100.000												
Sample Content by Weight Percent :																	
		Gravel		Sand		Silt		Clay									
		coarse		medium		fine											
Wentworth Classification		0.000		3.315		28.794		66.590									
Unified Classification		0.000		0.000		5.955		92.234									
Standard Statistics :																	
		Median		Mean		Dev.		Skew									
Method of Moments (PHI)		2.31		2.28		0.62		-0.13									
Folk Graphic Measures (PHI)		0.20		2.31		0.58		-0.06									
Grain Size (mm)																	

Offshore Alabama, AL (ALA-93-2)																	
Locality Shelf	Type Sand	Sample 525 cm	Date 7-29-93	Profile	Analysis Date 12-15-94	Analyz TB/RM											
		X Position : 29:54.65	Y Position : 87:34.99														
		Elevation of Top of Core : 108'															
		Length of Core : 5.60 m															
		Depth to Top of Sample : 520 cm															
		Depth to Bottom of Sample : 530 cm															
Comments : Thuy Bui																	
Start Weight : 8.933		Final Weight : 8.827		Deviation : 1.187 %													
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent								
0.25	1.189	0.000	0.000	0.000	54.730	2.25	0.210	1.175	13.311								
0.00	1.000	0.012	0.136	0.136	74.227	2.50	0.177	1.721	19.497								
0.25	0.841	0.020	0.227	0.363	85.340	2.75	0.149	0.981	11.114								
0.50	0.707	0.034	0.385	0.748	92.376	3.00	0.125	0.621	7.035								
0.75	0.595	0.090	1.020	1.767	96.216	3.25	0.105	0.339	3.840								
1.00	0.500	0.255	2.889	4.656	97.349	3.50	0.088	0.100	1.133								
1.25	0.420	0.369	4.180	8.837	97.927	3.75	0.074	0.051	0.578								
1.50	0.354	0.392	4.441	13.277	98.357	4.00	0.063	0.038	0.430								
1.75	0.297	0.660	7.477	20.755	98.357	4.25	0.053	0.145	1.643								
2.00	0.250	1.824	20.664	41.418	100.000												
Sample Content by Weight Percent :																	
		Gravel		Sand		Silt		Clay									
		coarse		medium		fine											
Wentworth Classification		0.000		4.656		36.762		56.939									
Unified Classification		0.000		0.000		8.837		89.090									
Standard Statistics :																	
		Median		Mean		Dev.		Skew									
Method of Moments (PHI)		2.16		2.15		0.65		0.10									
Folk Graphic Measures (PHI)		0.22		2.16		0.61		-0.04									
Grain Size (mm)																	



## Offshore Alabama, AL (ALA-93-2)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 541 cm 7-29-93 TB/HM  
X Position : 29:54.65 Y Position : 87:34.99

Elevation of Top of Core : 108'  
Length of Core : 5.60 m  
Depth to Top of Sample : 546 cm  
Depth to Bottom of Sample : 546 cm

Comments : Thuy Bul

Start Weight : 6.833 Final Weight : 6.641 Deviation : 2.810 %  

PHI	MM	Weight	Percent	Cumul	PHI	MM	Weight	Percent	Cumul
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.764	11.504	39.633
0.00	1.000	0.005	0.075	0.075	2.50	0.177	1.387	20.885	60.518
0.25	0.841	0.011	0.166	0.241	2.75	0.149	0.964	14.516	75.034
0.50	0.707	0.015	0.226	0.467	3.00	0.125	0.687	10.345	85.379
0.75	0.595	0.034	0.512	0.979	3.25	0.105	0.442	6.656	92.034
1.00	0.500	0.102	1.536	2.515	3.50	0.088	0.146	2.198	94.233
1.25	0.420	0.161	2.424	4.939	3.75	0.074	0.083	1.250	95.483
1.50	0.354	0.186	2.801	7.740	4.00	0.063	0.063	0.949	96.431
1.75	0.297	0.309	4.653	12.393	4.25	0.053	0.237	3.569	100.000
2.00	0.250	1.045	15.736	28.128					

## Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	2.515	25.614	68.303	3.569	0.000
Unified Classification	0.000	0.000	4.939	90.544	4.517	0.000

## Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt.
Method of Moments (PHI)					
Pulk Graphic Measures (PHI)	2.37	2.38	0.67	0.18	3.89
Grain Size (mm)	0.19	0.19	0.65	0.04	1.23

1-20-93

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 25 cm Date 8-19-91 Profile Analysis Date 7-15-93 Analyz SA/RH  
X Position : 30:16.63 Y Position : 87:23.97  
Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 12.601 Final Weight : 12.533 Deviation : 0.540 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.792	14.298	38.004
-0.75	1.682	0.283	2.258	2.258	2.00	0.250	4.315	34.429	72.433
-0.50	1.414	0.114	0.910	3.168	2.25	0.210	1.375	10.971	83.404
-0.25	1.189	0.162	1.293	4.460	2.50	0.177	1.262	10.069	93.473
0.00	1.000	0.151	1.205	5.665	2.75	0.149	0.411	3.279	96.753
0.25	0.841	0.166	1.325	6.990	3.00	0.125	0.201	1.604	98.356
0.50	0.707	0.139	1.109	8.099	3.25	0.105	0.108	0.862	99.218
0.75	0.595	0.179	1.428	9.527	3.50	0.088	0.030	0.239	99.457
1.00	0.500	0.393	3.136	12.663	3.75	0.074	0.019	0.152	99.609
1.25	0.420	0.575	4.588	17.250	4.00	0.063	0.013	0.104	99.713
1.50	0.354	0.809	6.455	23.705	4.25	0.053	0.036	0.287	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	12.663	59.770	27.280	0.287	0.000
Unified Classification	0.000	0.000	17.250	82.359	0.391	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.69	0.77	-1.34	5.94
Folk Graphic Measures (PHI)	1.84	1.76	0.69	-0.32	2.1\
Grain Size (mm)	0.28	0.31			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 50 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RH  
X Position : 30:16.63 Y Position : 87:23.97  
Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.205 Final Weight : 12.189 Deviation : 0.111 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	4.161	34.137	84.790
-0.25	1.189	0.060	0.492	0.492	2.25	0.210	0.812	6.662	91.451
0.00	1.000	0.035	0.287	0.779	2.50	0.177	0.698	5.726	97.178
0.25	0.841	0.041	0.336	1.116	2.75	0.149	0.203	1.665	98.843
0.50	0.707	0.087	0.714	1.830	3.00	0.125	0.085	0.697	99.541
0.75	0.595	0.203	1.665	3.495	3.25	0.105	0.041	0.336	99.877
1.00	0.500	0.749	6.145	9.640	3.50	0.088	0.009	0.074	99.951
1.25	0.420	1.208	9.911	19.550	3.75	0.074	0.004	0.033	99.984
1.50	0.354	1.310	10.747	30.298	4.00	0.063	0.002	0.016	100.000
1.75	0.297	2.481	20.354	50.652	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	9.640	75.150	15.210	0.000	0.000
Unified Classification	0.000	0.000	19.550	80.433	0.016	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.65	0.49	-0.58	4.90
Folk Graphic Measures (PHI)	1.74	1.63	0.45	-0.28	1.18
Grain Size (mm)	0.30	0.32			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 75 cm Date 8-19-91 Profile Analysis Date 7-15-93 SA/RM  
X Position : 30:16.63 Y Position : 87:23.97  
Elevation of Top of Core : 27'  
Length of Core : 70 cm  
Depth to Top of Sample : 50 cm  
Depth to Bottom of Sample : 80 cm  
Comments : Thuy Bui

Start Weight : 12.379		Final Weight : 12.349		Deviation : 0.242 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----		-----		-----	
-1.25	2.378	0.000	0.000	0.000	50.884
-1.00	2.000	0.016	0.130	0.130	84.889
-0.75	1.682	0.000	0.000	0.130	91.433
-0.50	1.414	0.027	0.219	0.348	97.239
-0.25	1.189	0.051	0.413	0.761	98.891
0.00	1.000	0.055	0.445	1.207	99.530
0.25	0.841	0.084	0.680	1.887	99.862
0.50	0.594	0.132	1.069	2.956	99.935
0.75	0.494	0.177	1.419	4.375	99.976
1.00	0.400	0.220	1.773	6.147	99.984
1.25	0.320	0.173	2.146	8.293	100.000
1.50	0.354	1.303	10.551	31.217	

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.130	11.037	73.723	15.094	0.016	0.000	
Unified Classification	0.000	0.130	20.536	79.310	0.024	0.000	
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)		1.63	0.53	-0.87	5.73		
Folk Graphic Measures (PHI)		1.74	1.62	0.47	-0.30		
Grain Size (mm)		0.30	0.32		1.18		

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 100 cm Date 8-19-91 Profile Analysis Date 7-15-93 SA/RM  
X Position : 30:16.63 Y Position : 87:23.97  
Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm  
Comments : Thuy Bui

Start Weight : 12.545		Final Weight : 12.518		Deviation : 0.215 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----		-----		-----	
-0.75	1.682	0.000	0.000	0.000	81.443
-0.50	1.414	0.004	0.431	0.431	90.094
-0.25	1.189	0.013	0.104	0.535	96.916
0.00	1.000	0.020	0.160	0.695	98.714
0.25	0.841	0.027	0.216	0.911	99.521
0.50	0.707	0.040	0.320	1.230	99.856
0.75	0.595	0.059	0.469	1.699	99.944
1.00	0.494	0.082	0.651	2.350	99.984
1.25	0.420	0.048	0.382	2.732	100.000
1.50	0.354	1.336	10.673	24.605	
1.75	0.297	2.506	20.019	44.624	

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	6.191	75.252	18.557	0.000	0.000	
Unified Classification	0.000	0.000	13.932	86.052	0.016	0.000	
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)		1.79	0.46	-0.79	6.63		
Folk Graphic Measures (PHI)		1.79	1.72	0.42	-0.20		
Grain Size (mm)		0.29	0.30		1.36		

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-19-91 7-18-93 SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.585 Final Weight : 12.546 Deviation : 0.310 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	3.228	25.729	49.091
-1.00	2.000	0.046	0.367	0.367	2.00	0.250	4.561	36.354	85.446
-0.75	1.682	0.000	0.000	0.367	2.25	0.210	0.724	5.771	91.216
-0.50	1.414	0.020	0.159	0.526	2.50	0.177	0.794	6.329	97.545
-0.25	1.189	0.022	0.175	0.701	2.75	0.149	0.173	1.379	98.924
0.00	1.000	0.018	0.143	0.845	3.00	0.125	0.078	0.622	99.546
0.25	0.841	0.019	0.151	0.996	3.25	0.105	0.042	0.335	99.880
0.50	0.707	0.021	0.167	1.164	3.50	0.088	0.009	0.072	99.952
0.75	0.595	0.056	0.446	1.610	3.75	0.074	0.004	0.032	99.984
1.00	0.500	0.372	2.965	4.575	4.00	0.063	0.002	0.016	100.000
1.25	0.420	0.993	7.915	12.490	4.25	0.053	0.000	0.000	100.000
1.50	0.354	1.364	10.872	23.362					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.367	4.209	80.870	14.554	0.000	0.000
Unified Classification	0.000	0.367	12.123	87.494	0.016	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.70	0.45	-1.27	10.67
Folk Graphic Measures (PHI)	1.76	1.69	0.37	-0.18	1.38
Grain Size (mm)	0.30	0.31			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-19-91 7-18-93 SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 12.173 Final Weight : 12.142 Deviation : 0.255 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	4.156	34.228	85.966
-0.50	1.414	0.003	0.025	0.025	2.25	0.210	0.705	5.806	91.772
-0.25	1.189	0.002	0.016	0.041	2.50	0.177	0.667	5.493	97.266
0.00	1.000	0.005	0.041	0.082	2.75	0.149	0.191	1.573	98.839
0.25	0.841	0.017	0.140	0.222	3.00	0.125	0.080	0.659	99.498
0.50	0.707	0.041	0.338	0.560	3.25	0.105	0.043	0.354	99.852
0.75	0.595	0.140	1.153	1.713	3.50	0.088	0.013	0.107	99.959
1.00	0.500	0.652	5.370	7.083	3.75	0.074	0.003	0.025	99.984
1.25	0.420	1.290	10.624	17.707	4.00	0.063	0.002	0.016	100.000
1.50	0.354	1.486	12.239	29.946	4.25	0.053	0.000	0.000	100.000
1.75	0.297	2.646	21.792	51.738					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	7.083	78.883	14.034	0.000	0.000
Unified Classification	0.000	0.000	17.707	82.276	0.016	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.67	0.44	-0.08	4.17
Folk Graphic Measures (PHI)	1.73	1.64	0.42	-0.22	1.18
Grain Size (mm)	0.30	0.31			

Offshore Pensacola, FL (PH-91-01)

Locality Shelf Type Sand Sample 175 cm Date 8-19-91 Profile Analysis Date 7-18-93 Analyz SA/RM  
X Position : 30116.63 Y Position : 87123.97  
Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm  
Comments : Thuy Bul

Start Weight : 12.527		Final Weight : 12.499		Deviation : 0.224 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.75	1.682	0.000	0.000	0.000	88.615
-0.50	1.414	0.004	0.032	0.032	93.679
-0.25	1.189	0.009	0.072	0.104	97.712
0.00	1.000	0.009	0.072	0.176	99.032
0.25	0.841	0.031	0.248	0.424	99.584
0.50	0.707	0.068	0.544	0.968	99.864
0.75	0.595	0.205	1.640	2.608	99.960
1.00	0.500	0.725	5.800	8.409	99.984
1.25	0.420	1.440	11.521	19.930	100.000
1.50	0.354	1.689	13.513	33.443	
1.75	0.297	2.895	23.162	56.605	

Sample Content by Weight Percent :

Standard Statistics :	Gravel	coarse	Sand	Silt	Clay	
		medium	fine			
	Wentworth Classification	8.409	80.206	11.385	0.000	
	Unified Classification	0.000	19.930	80.054	0.016	
		Median	Mean	Dev.	Skew	Kurt
	Method of Moments (Phi)	1.68	1.62	0.44	-0.20	4.45
	Folk Graphic Measures (Phi)	0.31	1.60	0.42	-0.20	1.10
	Grain Size (mm)		0.32			

Offshore Pensacola, FL (PH-91-01)

Locality Shelf Type Sand Sample 200 cm Date 8-19-91 Profile Analysis Date 7-18-93 Analyz SA/RM  
X Position : 30116.63 Y Position : 87123.97  
Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm  
Comments : Thuy Bul

Start Weight : 12.102		Final Weight : 12.074		Deviation : 0.231 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-1.00	2.000	0.000	0.000	0.000	59.177
-0.75	1.682	0.049	0.406	0.406	62.274
-0.50	1.414	0.021	0.174	0.580	64.274
-0.25	1.189	0.042	0.348	0.928	66.274
0.00	1.000	0.059	0.489	1.416	68.274
0.25	0.841	0.109	0.903	2.319	70.274
0.50	0.707	0.149	1.234	3.553	72.274
0.75	0.595	0.374	3.098	6.651	74.274
1.00	0.500	1.081	8.953	15.604	76.274
1.25	0.420	1.501	12.432	28.035	78.274
1.50	0.354	1.486	12.307	40.343	80.274

Sample Content by Weight Percent :

	Gravel		Sand		Silt		Clay	
	coarse	medium	fine	fine	fine	fine	fine	
Wentworth Classification	0.000	15.604	73.613	10.767	0.017	0.000	0.000	
Unified Classification	0.000	0.000	28.035	71.931	0.033	0.000	0.000	
Standard Statistics :								
		Median	Mean	Dev.	Skew	Kurt		
Method of Moments (Phi)		1.63	1.53	0.55	-0.68	5.21		
Folk Graphic Measures (Phi)		0.12	1.53	0.50	-0.24	1.02		
Grain Size (mm)								

Offshore Pensacola, FL (PEN-91-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 225 cm 8-19-91 87:23.97 7-18-93 SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 12.367 Final Weight : 12.337 Deviation : 0.243 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	2.536	20.556	60.477
-0.75	1.682	0.004	0.032	0.032	2.00	0.250	3.422	27.738	88.214
-0.50	1.414	0.013	0.105	0.138	2.25	0.210	0.828	6.712	94.926
-0.25	1.189	0.019	0.154	0.292	2.50	0.177	0.445	3.607	98.533
0.00	1.000	0.017	0.138	0.430	2.75	0.149	0.116	0.940	99.473
0.25	0.841	0.071	0.576	1.005	3.00	0.125	0.042	0.340	99.814
0.50	0.707	0.119	0.965	1.970	3.25	0.105	0.019	0.154	99.968
0.75	0.595	0.291	2.159	4.328	3.50	0.088	0.004	0.032	100.000
1.00	0.500	0.981	7.952	12.280	3.75	0.074	0.000	0.000	100.000
1.25	0.420	1.652	13.391	25.671	4.00	0.063	0.000	0.000	100.000
1.50	0.354	1.758	14.250	39.921	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	12.280	75.934	11.786
Unified Classification	0.000	0.000	25.671	74.329

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.56	0.47	-0.50	4.17
Folk Graphic Measures (PHI)	1.62	1.55	0.45	-0.19	0.95
Grain Size (mm)	0.32	0.34			

Offshore Pensacola, FL (PEN-91-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 250 cm 8-19-91 87:23.97 7-18-93 SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 12.458 Final Weight : 12.431 Deviation : 0.217 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	2.642	21.253	61.961
-0.75	1.682	0.003	0.024	0.024	2.00	0.250	3.194	25.694	89.655
-0.50	1.414	0.013	0.105	0.129	2.25	0.210	0.722	5.808	95.463
-0.25	1.189	0.019	0.153	0.282	2.50	0.177	0.375	3.017	98.480
0.00	1.000	0.030	0.241	0.523	2.75	0.149	0.102	0.821	99.300
0.25	0.841	0.085	0.684	1.207	3.00	0.125	0.056	0.450	99.751
0.50	0.707	0.144	1.158	2.365	3.25	0.105	0.027	0.217	99.968
0.75	0.595	0.304	2.445	4.811	3.50	0.088	0.004	0.032	100.000
1.00	0.500	1.042	8.382	13.193	3.75	0.074	0.000	0.000	100.000
1.25	0.420	1.716	13.804	26.997	4.00	0.063	0.000	0.000	100.000
1.50	0.354	1.953	15.711	42.708	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	13.193	76.462	10.345
Unified Classification	0.000	0.000	26.997	73.003

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.53	0.48	-0.44	4.23
Folk Graphic Measures (PHI)	1.59	1.53	0.45	-0.16	0.94
Grain Size (mm)	0.33	0.35			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 275 cm Date 8-19-91 Profile Analysis Date 7-18-93 Analyz SA/RH

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 12.495 Final Weight : 12.453 Deviation : 0.336 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	2.779	22.316	59.504
-1.00	2.000	0.023	0.185	0.185	2.00	0.250	3.546	28.475	87.979
-0.75	1.682	0.007	0.056	0.241	2.25	0.210	0.674	5.412	93.391
-0.50	1.414	0.005	0.040	0.281	2.50	0.177	0.541	4.344	97.735
-0.25	1.189	0.015	0.120	0.402	2.75	0.149	0.164	1.317	99.052
0.00	1.000	0.044	0.353	0.755	3.00	0.125	0.068	0.546	99.598
0.25	0.841	0.063	0.506	1.261	3.25	0.105	0.039	0.313	99.912
0.50	0.707	0.114	0.915	2.176	3.50	0.088	0.009	0.072	99.984
0.75	0.595	0.328	2.634	4.810	3.75	0.074	0.002	0.016	100.000
1.00	0.500	0.951	7.637	12.447	4.00	0.063	0.000	0.000	100.000
1.25	0.420	1.498	12.029	24.476	4.25	0.053	0.000	0.000	100.000
1.50	0.354	1.583	12.712	37.188					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.185	12.262	75.532	12.021
Unified Classification	0.000	0.185	24.291	75.524

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.57	0.50	-0.64	5.40
Folk Graphic Measures (PHI)	1.64	1.56	0.46	-0.20	1.04
Grain Size (mm)	0.32	0.34			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 300 cm Date 8-19-91 Profile Analysis Date 7-18-93 Analyz SA/RH

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 12.598 Final Weight : 12.574 Deviation : 0.191 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	2.585	20.558	61.746
-0.75	1.682	0.016	0.127	0.127	2.00	0.250	3.423	27.223	88.969
-0.50	1.414	0.033	0.262	0.390	2.25	0.210	0.607	4.827	93.797
-0.25	1.189	0.049	0.390	0.779	2.50	0.177	0.491	3.905	97.702
0.00	1.000	0.061	0.485	1.265	2.75	0.149	0.166	1.320	99.022
0.25	0.841	0.112	0.891	2.155	3.00	0.125	0.071	0.565	99.586
0.50	0.707	0.171	1.360	3.515	3.25	0.105	0.038	0.302	99.889
0.75	0.595	0.407	3.237	6.752	3.50	0.088	0.011	0.087	99.976
1.00	0.500	1.061	8.438	15.190	3.75	0.074	0.002	0.016	99.992
1.25	0.420	1.569	12.478	27.668	4.00	0.063	0.001	0.008	100.000
1.50	0.354	1.700	13.520	41.188	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	15.190	73.779	11.031
Unified Classification	0.000	0.000	27.668	72.324

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.53	0.53	-0.62	4.73
Folk Graphic Measures (PHI)	1.61	1.53	0.49	-0.21	1.04
Grain Size (mm)	0.33	0.35			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 325 cm Date 8-19-91 Profile Analysis Date 7-18-93 Analyz SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 12.321 Final Weight : 12.292 Deviation : 0.235 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	2.978	24.227	76.481
-0.75	1.682	0.010	0.081	0.081	2.00	0.250	2.645	21.518	97.999
-0.50	1.414	0.021	0.171	0.252	2.25	0.210	0.141	1.147	99.146
-0.25	1.189	0.006	0.049	0.301	2.50	0.177	0.055	0.447	99.593
0.00	1.000	0.029	0.236	0.537	2.75	0.149	0.023	0.187	99.780
0.25	0.841	0.064	0.521	1.058	3.00	0.125	0.014	0.114	99.894
0.50	0.707	0.146	1.188	2.245	3.25	0.105	0.012	0.098	99.992
0.75	0.595	0.393	3.197	5.443	3.50	0.088	0.001	0.008	100.000
1.00	0.500	1.261	10.259	15.701	3.75	0.074	0.000	0.000	100.000
1.25	0.420	2.164	17.605	33.306	4.00	0.063	0.000	0.000	100.000
1.50	0.354	2.329	18.947	52.253	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	15.701	82.297	0.000
Unified Classification	0.000	0.000	33.306	66.694

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.41	0.42	-0.69	4.86
Folk Graphic Measures (PHI)	1.47	1.44	0.40	-0.16	0.85
Grain Size (mm)	0.36	0.38			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 350 cm Date 8-19-91 Profile Analysis Date 7-15-93 Analyz SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 12.365 Final Weight : 12.337 Deviation : 0.226 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	3.055	24.763	72.173
-1.00	2.000	0.034	0.276	0.276	2.00	0.250	3.035	24.601	96.774
-0.75	1.682	0.011	0.089	0.365	2.25	0.210	0.199	1.613	98.387
-0.50	1.414	0.022	0.178	0.543	2.50	0.177	0.124	1.005	99.392
-0.25	1.189	0.021	0.170	0.713	2.75	0.149	0.040	0.324	99.716
0.00	1.000	0.039	0.316	1.029	3.00	0.125	0.019	0.154	99.870
0.25	0.841	0.077	0.624	1.654	3.25	0.105	0.012	0.097	99.968
0.50	0.707	0.147	1.192	2.845	3.50	0.088	0.003	0.024	99.992
0.75	0.595	0.394	3.194	6.039	3.75	0.074	0.000	0.000	99.992
1.00	0.500	1.194	9.678	15.717	4.00	0.063	0.001	0.008	100.000
1.25	0.420	1.884	15.271	30.988	4.25	0.053	0.000	0.000	100.000
1.50	0.354	2.026	16.422	47.410					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.276	15.441	81.057	3.226
Unified Classification	0.000	0.276	30.712	69.004

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.44	0.47	-1.08	6.68
Folk Graphic Measures (PHI)	1.53	1.47	0.42	-0.26	0.86
Grain Size (mm)	0.35	0.37			



Offshore Pensacola, FL (PEN-91-01)

Locality Type Sample Date Profile Analysis Date Analy:  
Shelf Sand 375 cm 8-19-91 7-18-93 SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 12.837 Final Weight : 12.810 Deviation : 0.210 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	2.910	22.717	70.898
-1.00	2.000	0.090	0.703	0.703	2.00	0.250	3.262	25.464	96.362
-0.75	1.682	0.028	0.219	0.921	2.25	0.210	0.224	1.749	98.111
-0.50	1.414	0.101	0.788	1.710	2.50	0.177	0.114	0.890	99.001
-0.25	1.189	0.045	0.351	2.061	2.75	0.149	0.061	0.476	99.477
0.00	1.000	0.055	0.429	2.490	3.00	0.125	0.030	0.234	99.711
0.25	0.841	0.116	0.906	3.396	3.25	0.105	0.027	0.211	99.922
0.50	0.707	0.164	1.280	4.676	3.50	0.088	0.008	0.062	99.984
0.75	0.595	0.430	3.357	8.033	3.75	0.074	0.002	0.016	100.000
1.00	0.500	1.236	9.649	17.681	4.00	0.063	0.000	0.000	100.000
1.25	0.420	1.886	14.723	32.404	4.25	0.053	0.000	0.000	100.000
1.50	0.354	2.021	15.777	48.181					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.703	16.979	78.681	3.638
Unified Classification	0.000	0.703	31.782	67.596

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.41	0.55	-1.41	7.40
Folk Graphic Measures (PHI)	1.52	1.45	0.45	-0.29	0.90
Grain Size (mm)	0.35	0.38			

Offshore Pensacola, FL (PEN-91-01)

Locality Type Sample Date Profile Analysis Date Analy:  
Shelf Sand 400 cm 8-19-91 7-15-93 SA/RM

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bul

Start Weight : 12.379 Final Weight : 12.358 Deviation : 0.170 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.998	24.260	97.362
-0.25	1.189	0.007	0.057	0.057	2.25	0.210	0.154	1.246	98.608
0.00	1.000	0.011	0.089	0.146	2.50	0.177	0.064	0.518	99.126
0.25	0.841	0.068	0.550	0.696	2.75	0.149	0.029	0.235	99.361
0.50	0.707	0.139	1.125	1.821	3.00	0.125	0.024	0.194	99.555
0.75	0.595	0.352	2.848	4.669	3.25	0.105	0.035	0.283	99.838
1.00	0.500	1.301	10.528	15.197	3.50	0.088	0.012	0.097	99.935
1.25	0.420	1.966	15.909	31.105	3.75	0.074	0.004	0.032	99.968
1.50	0.354	2.018	16.330	47.435	4.00	0.063	0.004	0.032	100.000
1.75	0.297	3.172	25.668	73.102	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	15.197	82.165	2.618
Unified Classification	0.000	0.000	31.105	68.862

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.46	0.43	-0.16	4.54
Folk Graphic Measures (PHI)	1.52	1.47	0.40	-0.23	0.81
Grain Size (mm)	0.35	0.36			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 405 cm Date 8-19-91 Profile Analysis Date 8-25-93 Analyz TB/RH

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 400 cm  
Depth to Bottom of Sample : 410 cm

Comments : Thuy Bui

Start Weight : 12.264 Final Weight : 12.258 Deviation : 0.049 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	2.912	23.756	73.226
0.00	1.000	0.002	0.016	0.016	2.00	0.250	3.061	24.971	98.197
0.25	0.841	0.079	0.644	0.661	2.25	0.210	0.158	1.289	99.486
0.50	0.707	0.162	1.322	1.982	2.50	0.177	0.032	0.261	99.747
0.75	0.595	0.407	3.320	5.303	2.75	0.149	0.017	0.139	99.886
1.00	0.500	1.449	11.821	17.124	3.00	0.125	0.010	0.082	99.967
1.25	0.420	2.084	17.001	34.125	3.25	0.105	0.004	0.033	100.000
1.50	0.354	1.881	15.345	49.470	3.50	0.088	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	17.124	81.074	1.803	0.000	0.000
Unified Classification	0.000	0.000	34.125	65.875	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.43	0.41	-0.49	2.93
Folk Graphic Measures (PHI)	1.51	1.45	0.41	-0.23	0.78
Grain Size (mm)	0.35	0.37			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 450 cm Date 8-19-91 Profile Analysis Date 8-25-93 Analyz TB/RH

X Position : 30:16.63 Y Position : 87:23.97

Elevation of Top of Core : 27'  
Length of Core : 502 cm  
Depth to Top of Sample : 445 cm  
Depth to Bottom of Sample : 455 cm

Comments : Thuy Bui

Start Weight : 12.121 Final Weight : 12.046 Deviation : 0.619 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	3.062	25.419	68.280
0.00	1.000	0.033	0.274	0.274	2.00	0.250	3.515	29.180	97.460
0.25	0.841	0.037	0.307	0.581	2.25	0.210	0.204	1.694	99.153
0.50	0.707	0.144	1.195	1.777	2.50	0.177	0.040	0.332	99.485
0.75	0.595	0.288	2.391	4.167	2.75	0.149	0.020	0.166	99.651
1.00	0.500	1.165	9.671	13.839	3.00	0.125	0.018	0.149	99.801
1.25	0.420	1.780	14.777	28.615	3.25	0.105	0.017	0.141	99.942
1.50	0.354	1.716	14.245	42.861	3.50	0.088	0.007	0.058	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	13.839	83.621	2.540	0.000	0.000
Unified Classification	0.000	0.000	28.615	71.385	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.49	0.41	-0.54	3.85
Folk Graphic Measures (PHI)	1.57	1.50	0.39	-0.29	0.80
Grain Size (mm)	0.34	0.36			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 475 cm Date 8-19-91 Profile Analysis Date 8-25-93 Analyz TB/RM  
 X Position : 30:16.63 Y Position : 87:23.97  
 Elevation of Top of Core : 27'  
 Length of Core : 502 cm  
 Depth to Top of Sample : 470 cm  
 Depth to Bottom of Sample : 480 cm

Comments : Thuy Bui

Start Weight : 12.146 Final Weight : 12.136 Deviation : 0.082 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	3.011	24.810	65.656
0.00	1.000	0.062	0.511	0.511	2.00	0.250	3.692	30.422	96.078
0.25	0.841	0.059	0.486	0.997	2.25	0.210	0.261	2.151	98.228
0.50	0.707	0.110	0.906	1.903	2.50	0.177	0.080	0.659	98.888
0.75	0.595	0.288	2.373	4.277	2.75	0.149	0.052	0.428	99.316
1.00	0.500	1.061	8.743	13.019	3.00	0.125	0.039	0.321	99.637
1.25	0.420	1.644	13.546	26.566	3.25	0.105	0.031	0.255	99.893
1.50	0.354	1.733	14.280	40.845	3.50	0.088	0.013	0.107	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	13.019	83.059	3.922	0.000	0.000	
Unified Classification	0.000	0.000	26.566	73.434	0.000	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.51	0.44	-0.48	4.49
Folk Graphic Measures (PHI)	1.59	1.52	0.40	-0.31	0.83
Grain Size (mm)	0.33	0.35			

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sand Sample 500 cm Date 8-19-91 Profile Analysis Date 8-25-93 Analyz TB/RM  
 X Position : 30:16.63 Y Position : 87:23.97  
 Elevation of Top of Core : 27'  
 Length of Core : 502 cm  
 Depth to Top of Sample : 495 cm  
 Depth to Bottom of Sample : 505 cm

Comments : Thuy Bui

Start Weight : 12.535 Final Weight : 12.521 Deviation : 0.112 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	2.334	18.641	48.095
0.00	1.000	0.208	1.661	1.661	2.00	0.250	4.048	32.330	80.425
0.25	0.841	0.061	0.487	2.148	2.25	0.210	0.812	6.485	86.910
0.50	0.707	0.092	0.735	2.883	2.50	0.177	0.629	5.024	91.934
0.75	0.595	0.202	1.613	4.496	2.75	0.149	0.375	2.995	94.929
1.00	0.500	0.689	5.503	9.999	3.00	0.125	0.291	2.324	97.253
1.25	0.420	1.149	9.177	19.176	3.25	0.105	0.226	1.805	99.058
1.50	0.354	1.287	10.279	29.455	3.50	0.088	0.118	0.942	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	9.999	70.426	19.575	0.000	0.000	
Unified Classification	0.000	0.000	19.176	80.824	0.000	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.70	0.59	-0.16	4.42
Folk Graphic Measures (PHI)	1.76	1.69	0.54	-0.12	1.44
Grain Size (mm)	0.29	0.31			

Offshore Pensacola, Florida (PEN91-02)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 5 cm 8-19-91 9-22-93 SA/RH

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 13.053 Final Weight : 12.977 Deviation : 0.582 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	1.207	9.301	74.871
-0.50	1.414	0.108	0.832	0.832	2.50	0.177	1.571	12.106	86.977
-0.25	1.189	0.098	0.755	1.587	2.75	0.149	0.843	6.496	93.473
0.00	1.000	0.185	1.426	3.013	3.00	0.125	0.477	3.676	97.149
0.25	0.841	0.296	2.281	5.294	3.25	0.105	0.208	1.603	98.752
0.50	0.707	0.313	2.412	7.706	3.50	0.088	0.047	0.362	99.114
0.75	0.595	0.501	3.861	11.567	3.75	0.074	0.025	0.193	99.306
1.00	0.500	1.106	8.523	20.089	4.00	0.063	0.017	0.131	99.437
1.25	0.420	1.202	9.263	29.352	4.25	0.053	0.011	0.085	99.522
1.50	0.354	0.952	7.336	36.688	4.50	0.044	0.016	0.123	99.646
1.75	0.297	1.292	9.956	46.644	4.75	0.037	0.046	0.354	100.000
2.00	0.250	2.456	18.926	65.570					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	20.089	45.480	33.868
Unified Classification	0.000	0.000	29.352	69.955

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.68	0.81	-0.22	3.55
Folk Graphic Measures (PHI)	1.79	1.70	0.79	-0.18	0.96
Grain Size (mm)	0.29	0.31			

Offshore Pensacola, Florida (PEN91-02)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 25 cm 8-19-91 TB/RH

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 12.059 Final Weight : 12.043 Deviation : 0.133 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.399	11.617	46.550
0.00	1.000	0.108	0.897	0.897	2.00	0.250	2.484	20.626	67.176
0.25	0.841	0.209	1.735	2.632	2.25	0.210	1.062	8.818	75.994
0.50	0.707	0.246	2.043	4.675	2.50	0.177	1.499	12.447	88.441
0.75	0.595	0.465	3.861	8.536	2.75	0.149	0.736	6.111	94.553
1.00	0.500	1.041	8.644	17.180	3.00	0.125	0.388	3.222	97.775
1.25	0.420	1.166	9.682	26.862	3.25	0.105	0.188	1.312	99.087
1.50	0.354	0.972	8.071	34.933	3.50	0.088	0.110	0.913	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	17.180	49.996	32.824
Unified Classification	0.000	0.000	26.862	73.138

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.71	0.69	-0.23	2.75
Folk Graphic Measures (PHI)	1.79	1.72	0.70	-0.13	0.91
Grain Size (mm)	0.29	0.31			

Offshore Pensacola, Florida (PEN91-02)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 50 cm 8-19-91 8A/RH

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.090 Final Weight : 12.070 Deviation : 0.165 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	1.156	9.577	72.568
-0.50	1.414	0.270	2.237	2.237	2.50	0.177	1.744	14.449	87.017
-0.25	1.189	0.141	1.168	3.405	2.75	0.149	0.862	7.142	94.159
0.00	1.000	0.127	1.052	4.457	3.00	0.125	0.450	3.728	97.887
0.25	0.841	0.184	1.524	5.982	3.25	0.105	0.172	1.425	99.312
0.50	0.707	0.189	1.566	7.548	3.50	0.088	0.031	0.257	99.569
0.75	0.595	0.309	2.560	10.108	3.75	0.074	0.014	0.116	99.685
1.00	0.500	0.815	6.752	16.860	4.00	0.063	0.008	0.066	99.751
1.25	0.420	0.955	7.912	24.772	4.25	0.053	0.005	0.041	99.793
1.50	0.354	0.849	7.034	31.806	4.50	0.044	0.013	0.108	99.901
1.75	0.297	1.207	10.000	41.806	4.75	0.037	0.012	0.099	100.000
2.00	0.250	2.557	21.185	62.991					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	16.860	46.131	36.761
Unified Classification	0.000	0.000	24.772	74.913

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.72	0.80	-0.74	3.95
Folk Graphic Measures (PHI)	1.85	1.75	0.78	-0.24	1.08
Grain Size (mm)	0.28	0.30			

Offshore Pensacola, Florida (PEN91-02)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 75 cm 8-19-91 8A/RH

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 12.538 Final Weight : 12.494 Deviation : 0.351 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	1.087	8.700	77.437
-0.50	1.414	0.433	3.466	3.466	2.50	0.177	1.541	12.334	89.771
-0.25	1.189	0.181	1.449	4.914	2.75	0.149	0.721	5.771	95.542
0.00	1.000	0.173	1.385	6.299	3.00	0.125	0.356	2.849	98.391
0.25	0.841	0.230	1.841	8.140	3.25	0.105	0.127	1.016	99.408
0.50	0.707	0.261	2.089	10.229	3.50	0.088	0.024	0.192	99.600
0.75	0.595	0.445	3.562	13.791	3.75	0.074	0.012	0.096	99.696
1.00	0.500	1.025	8.204	21.995	4.00	0.063	0.009	0.072	99.768
1.25	0.420	1.102	8.820	30.815	4.25	0.053	0.006	0.048	99.816
1.50	0.354	0.934	7.476	38.290	4.50	0.044	0.010	0.080	99.896
1.75	0.297	1.255	10.045	48.335	4.75	0.037	0.013	0.104	100.000
2.00	0.250	2.549	20.402	68.737					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	21.995	46.742	31.031
Unified Classification	0.000	0.000	30.815	68.861

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.59	0.85	-0.66	3.54
Folk Graphic Measures (PHI)	1.77	1.66	0.84	-0.29	1.11
Grain Size (mm)	0.29	0.33			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 100 cm Date 8-19-91 Profile Analysis Date 9-23-93 Analyz SA/RM  
X Position : 30:12.48 Y Position : 87:19.48  
Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 12.691 Final Weight : 12.642 Deviation : 0.386 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	1.079	8.535	78.184
-0.50	1.414	0.443	3.504	3.504	2.50	0.177	1.481	11.715	89.899
-0.25	1.189	0.138	1.092	4.596	2.75	0.149	0.721	5.703	95.602
0.00	1.000	0.119	0.941	5.537	3.00	0.125	0.352	2.784	98.386
0.25	0.841	0.207	1.637	7.174	3.25	0.105	0.138	1.092	99.478
0.50	0.707	0.267	2.112	9.287	3.50	0.088	0.024	0.190	99.668
0.75	0.595	0.479	3.789	13.075	3.75	0.074	0.012	0.095	99.763
1.00	0.500	1.132	8.954	22.030	4.00	0.063	0.007	0.055	99.818
1.25	0.420	1.190	9.413	31.443	4.25	0.053	0.005	0.040	99.858
1.50	0.354	0.979	7.744	39.187	4.50	0.044	0.008	0.063	99.921
1.75	0.297	1.315	10.402	49.589	4.75	0.037	0.010	0.079	100.000
2.00	0.250	2.536	20.060	69.649					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	22.030	47.619	30.169	0.182	0.000
Unified Classification	0.000	0.000	31.443	68.320	0.237	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.59	0.83	-0.64	3.59
Folk Graphic Measures (PHI)	1.76	1.65	0.82	-0.26	1.09
Grain Size (mm)	0.30	0.33			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 125 cm Date 8-19-91 Profile Analysis Date 9-23-93 Analyz SA/RM  
X Position : 30:12.48 Y Position : 87:19.48  
Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 12.739 Final Weight : 12.689 Deviation : 0.392 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	1.016	8.007	81.251
-0.50	1.414	0.433	3.412	3.412	2.50	0.177	1.279	10.080	91.331
-0.25	1.189	0.150	1.182	4.595	2.75	0.149	0.614	4.839	96.170
0.00	1.000	0.141	1.111	5.706	3.00	0.125	0.307	2.419	98.589
0.25	0.841	0.253	1.994	7.700	3.25	0.105	0.117	0.922	99.511
0.50	0.707	0.328	2.585	10.284	3.50	0.088	0.022	0.173	99.685
0.75	0.595	0.617	4.862	15.147	3.75	0.074	0.010	0.079	99.764
1.00	0.500	1.381	10.883	26.030	4.00	0.063	0.008	0.063	99.827
1.25	0.420	1.345	10.600	36.630	4.25	0.053	0.004	0.032	99.858
1.50	0.354	1.051	8.283	44.913	4.50	0.044	0.006	0.047	99.905
1.75	0.297	1.267	9.985	54.898	4.75	0.037	0.012	0.095	100.000
2.00	0.250	2.328	18.347	73.245					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	26.030	47.214	26.582	0.173	0.000
Unified Classification	0.000	0.000	36.630	63.173	0.236	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.50	0.83	-0.48	3.35
Folk Graphic Measures (PHI)	1.63	1.57	0.82	-0.18	1.08
Grain Size (mm)	0.32	0.35			

## Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 150 cm Date 8-19-91 Profile Analysis Date 9-25-93 Analyz SA/RH  
 X Position : 30:12.48 Y Position : 87:19.48  
 Elevation of Top of Core : 75  
 Length of Core : 379 cm  
 Depth to Top of Sample : 145 cm  
 Depth to Bottom of Sample : 155 cm  
 Comments : Thuy Bul

Start Weight : 12.532 Final Weight : 12.532 Deviation : 0.000 %									
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent
-0.75	1.682	0.000	0.000	0.000	0.000	2.25	0.210	0.826	6.591
-0.50	1.414	0.470	3.750	3.750	94.063	2.50	0.177	1.160	9.256
-0.25	1.189	0.181	1.444	5.195	97.917	2.75	0.149	0.483	3.854
0.00	1.000	0.184	1.468	6.663	99.465	3.00	0.125	0.194	1.548
0.25	0.841	0.352	2.809	9.472	99.848	3.25	0.105	0.048	0.383
0.50	0.707	0.422	3.367	12.839	99.928	3.50	0.088	0.007	0.056
0.75	0.595	0.850	6.783	19.622	99.960	3.75	0.074	0.003	0.024
1.00	0.500	1.395	11.132	30.753	99.960	4.00	0.063	0.004	0.032
1.25	0.420	1.533	12.233	42.986	99.960	4.25	0.053	0.000	0.000
1.50	0.354	1.008	8.043	51.029	99.984	4.50	0.044	0.003	0.024
1.75	0.297	1.241	9.903	60.932	100.000	4.75	0.037	0.002	0.016
2.00	0.250	2.166	17.284	78.216					

## Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification	0.000	30.753	47.462	21.744	0.040	0.000			
Unified Classification	0.000	0.000	42.986	56.942	0.072	0.000			
Standard Statistics :									
		Median		Mean		Dev.		Skew	
Method of Moments (PHI)		1.47		1.38		0.82		-0.47	
Folk Graphic Measures (PHI)		1.43		0.83		0.83		-0.15	
Grain Size (mm)		0.36		0.38					

Method of Moments (PHI) 1.47 1.43 0.82 -0.47 2.97  
 Folk Graphic Measures (PHI) 1.43 0.83 0.83 -0.15 1.08  
 Grain Size (mm) 0.36 0.38

## Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 175 cm Date 8-19-91 Profile Analysis Date 9-25-93 Analyz SA/RH  
 X Position : 30:12.48 Y Position : 87:19.48  
 Elevation of Top of Core : 75  
 Length of Core : 379 cm  
 Depth to Top of Sample : 170 cm  
 Depth to Bottom of Sample : 180 cm  
 Comments : Thuy Bul

Start Weight : 12.962 Final Weight : 12.917 Deviation : 0.347 %									
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent
-0.75	1.682	0.000	0.000	0.000	0.000	2.25	0.210	0.912	7.060
-0.50	1.414	0.351	2.717	2.717	9.329	2.50	0.177	1.205	9.329
-0.25	1.189	0.140	1.084	3.801	4.436	2.75	0.149	0.573	4.436
0.00	1.000	0.167	1.293	5.094	2.083	3.00	0.125	0.269	2.083
0.25	0.841	0.282	2.183	7.277	0.852	3.25	0.105	0.110	0.852
0.50	0.707	0.397	3.073	10.351	0.020	3.50	0.088	0.020	0.155
0.75	0.595	0.783	6.062	16.412	0.010	3.75	0.074	0.010	0.077
1.00	0.500	1.628	12.604	29.016	0.006	4.00	0.063	0.006	0.046
1.25	0.420	1.450	11.226	40.242	0.003	4.25	0.053	0.003	0.023
1.50	0.354	1.068	8.268	48.510	0.005	4.50	0.044	0.005	0.039
1.75	0.297	1.291	9.995	58.504	0.009	4.75	0.037	0.009	0.070
2.00	0.250	2.238	17.326	75.830					

## Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification	0.000	29.016	46.814	24.038	0.132	0.000			
Unified Classification	0.000	0.000	40.242	59.580	0.178	0.000			
Standard Statistics :									
		Median		Mean		Dev.		Skew	
Method of Moments (PHI)		1.54		1.46		0.81		-0.34	
Folk Graphic Measures (PHI)		1.52		0.79		-0.10		1.03	
Grain Size (mm)		0.34		0.36					

Method of Moments (PHI) 1.54 1.52 0.81 -0.34 3.18  
 Folk Graphic Measures (PHI) 1.52 0.79 -0.10 1.03  
 Grain Size (mm) 0.34 0.36

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 200 cm Date 8-19-91 Profile Analysis Date 9-29-93 Analyz SA/RM

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 12.377 Final Weight : 12.337 Deviation : 0.323 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	0.808	6.549	85.831
-0.50	1.414	0.411	3.311	3.311	2.50	0.177	0.957	7.757	93.588
-0.25	1.189	0.166	1.346	4.677	2.75	0.149	0.457	3.704	97.293
0.00	1.000	0.225	1.824	6.501	3.00	0.125	0.211	1.710	99.003
0.25	0.841	0.462	3.745	10.246	3.25	0.105	0.077	0.624	99.627
0.50	0.707	0.610	4.944	15.190	3.50	0.088	0.012	0.097	99.724
0.75	0.595	0.963	7.806	22.996	3.75	0.074	0.005	0.041	99.765
1.00	0.500	1.700	13.780	36.776	4.00	0.063	0.004	0.012	99.797
1.25	0.420	1.403	11.372	48.148	4.25	0.053	0.003	0.024	99.822
1.50	0.354	0.966	7.830	55.978	4.50	0.044	0.007	0.057	99.878
1.75	0.297	1.105	8.957	64.935	4.75	0.037	0.015	0.122	100.000
2.00	0.250	1.770	14.347	79.282					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	36.776	42.506	20.516	0.203	0.000
Unified Classification	0.000	0.000	48.148	51.617	0.235	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.32	0.84	-0.15	2.96
Folk Graphic Measures (PHI)	1.31	1.34	0.84	-0.01	1.01
Grain Size (mm)	0.40	0.40			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 225 cm Date 8-19-91 Profile Analysis Date 9-28-93 Analyz TB/RM

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 12.024 Final Weight : 12.024 Deviation : 0.000 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	0.927	7.710	55.547
-0.25	1.189	0.185	1.539	1.539	1.75	0.297	1.172	9.747	65.294
0.00	1.000	0.312	2.595	4.133	2.00	0.250	1.831	15.228	80.522
0.25	0.841	0.524	4.358	8.491	2.25	0.210	0.787	6.545	87.068
0.50	0.707	0.666	5.539	14.030	2.50	0.177	0.894	7.435	94.503
0.75	0.595	0.981	8.159	22.189	2.75	0.149	0.412	3.426	97.929
1.00	0.500	1.671	13.897	36.086	3.00	0.125	0.171	1.422	99.351
1.25	0.420	1.413	11.751	47.838	3.25	0.105	0.078	0.649	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	36.086	44.436	19.478	0.000	0.000
Unified Classification	0.000	0.000	47.838	52.162	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.34	0.76	-0.07	2.36
Folk Graphic Measures (PHI)	1.32	1.34	0.77	0.01	0.92
Grain Size (mm)	0.40	0.40			



Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 250 cm Date 8-19-91 Profile Analysis Date 9-28-93 Analyz TB/RH

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 12.545 Final Weight : 12.500 Deviation : 0.355 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.117	8.936	92.104
-0.25	1.189	0.182	1.456	1.456	2.75	0.149	0.548	4.384	96.488
0.00	1.000	0.251	2.008	3.464	3.00	0.125	0.265	2.120	98.608
0.25	0.841	0.451	3.608	7.072	3.25	0.105	0.103	0.824	99.432
0.50	0.707	0.526	4.208	11.280	3.50	0.088	0.018	0.144	99.576
0.75	0.595	0.919	7.152	18.632	3.75	0.074	0.008	0.064	99.640
1.00	0.500	1.688	13.504	32.136	4.00	0.063	0.006	0.048	99.688
1.25	0.420	1.425	11.400	43.536	4.25	0.053	0.004	0.032	99.720
1.50	0.354	0.923	7.384	50.920	4.50	0.044	0.009	0.072	99.792
1.75	0.297	1.162	9.296	60.216	4.75	0.037	0.008	0.064	99.856
2.00	0.250	1.971	15.768	75.984	5.00	0.031	0.018	0.144	100.000
2.25	0.210	0.898	7.184	83.168					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	32.136	43.848	23.704	0.312	0.000
Unified Classification	0.000	0.000	43.536	56.104	0.360	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.44	0.79	0.08	3.07
Folk Graphic Measures (PHI)	1.47	1.47	0.79	-0.03	0.94
Grain Size (mm)	0.16	0.37			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 275 cm Date 8-19-91 Profile Analysis Date 9-23-93 Analyz TB/RH

X Position : 30:12.48 Y Position : 87:19.48

Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 12.093 Final Weight : 12.092 Deviation : 0.008 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.903	7.468	65.332
0.00	1.000	0.414	3.424	3.424	2.00	0.250	1.507	12.463	77.795
0.25	0.841	0.864	7.145	10.569	2.25	0.210	0.696	5.756	83.551
0.50	0.707	0.858	7.096	17.665	2.50	0.177	0.954	7.890	91.441
0.75	0.595	1.112	9.196	26.861	2.75	0.149	0.518	4.449	95.890
1.00	0.500	1.681	13.902	40.762	3.00	0.125	0.300	2.481	98.371
1.25	0.420	1.258	10.404	51.166	3.25	0.105	0.125	1.034	99.405
1.50	0.354	0.810	6.699	57.865	3.50	0.088	0.072	0.595	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	40.762	37.033	22.205	0.000	0.000
Unified Classification	0.000	0.000	51.166	48.834	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.32	0.82	0.20	2.18
Folk Graphic Measures (PHI)	1.22	1.31	0.86	0.13	0.87
Grain Size (mm)	0.47	0.40			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 300 cm Date 8-19-91 Profile Analysis Date 9-29-93 Analyz SA/RM  
X Position : 30:12.48 Y Position : 87:19.48  
Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 12.138 Final Weight : 12.029 Deviation : 0.898 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.25	0.210	0.793	6.592	76.465
-0.50	1.414	1.887	15.687	15.687	2.50	0.177	1.185	9.851	86.316
-0.25	1.189	0.291	2.419	18.106	2.75	0.149	0.770	6.401	92.718
0.00	1.000	0.252	2.095	20.201	3.00	0.125	0.460	3.824	96.542
0.25	0.841	0.378	3.142	23.344	3.25	0.105	0.203	1.688	98.229
0.50	0.707	0.354	2.943	26.286	3.50	0.088	0.048	0.399	98.628
0.75	0.595	0.510	4.240	30.526	3.75	0.074	0.031	0.258	98.886
1.00	0.500	0.957	7.956	38.482	4.00	0.063	0.024	0.200	99.086
1.25	0.420	0.860	7.149	45.631	4.25	0.053	0.017	0.141	99.227
1.50	0.354	0.665	5.528	51.160	4.50	0.044	0.022	0.183	99.410
1.75	0.297	0.788	6.551	57.711	4.75	0.037	0.071	0.590	100.000
2.00	0.250	1.463	12.162	69.873					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	38.482	31.391	29.213	0.914	0.000
Unified Classification	0.000	0.000	45.631	53.255	1.114	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.27	1.18	-0.16	2.28
Folk Graphic Measures (PHI)	1.45	1.14	1.27	-0.25	0.81
Grain Size (mm)	0.37	0.42			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 325 cm Date 8-19-91 Profile Analysis Date 9-23-93 Analyz TB/RM  
X Position : 30:12.48 Y Position : 87:19.48  
Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 12.123 Final Weight : 11.973 Deviation : 1.237 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.334	11.142	81.107
-0.25	1.189	0.284	2.372	2.372	2.75	0.149	0.976	8.152	89.259
0.00	1.000	0.331	2.765	5.137	3.00	0.125	0.620	5.178	94.437
0.25	0.841	0.474	3.959	9.095	3.25	0.105	0.319	2.664	97.102
0.50	0.707	0.423	3.533	12.628	3.50	0.088	0.077	0.643	97.745
0.75	0.595	0.654	5.462	18.091	3.75	0.074	0.055	0.459	98.204
1.00	0.500	1.126	9.404	27.495	4.00	0.063	0.047	0.393	98.597
1.25	0.420	1.054	8.803	36.298	4.25	0.053	0.030	0.251	98.847
1.50	0.354	0.732	6.114	42.412	4.50	0.044	0.040	0.334	99.181
1.75	0.297	0.869	7.258	49.670	4.75	0.037	0.032	0.267	99.449
2.00	0.250	1.593	13.105	62.975	5.00	0.031	0.066	0.551	100.000
2.25	0.210	0.837	6.991	69.966					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	27.495	35.480	35.622	1.403	0.000
Unified Classification	0.000	0.000	36.298	61.906	1.796	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.65	0.97	0.11	3.05
Folk Graphic Measures (PHI)	1.76	1.67	0.95	-0.15	0.88
Grain Size (mm)	0.30	0.32			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 350 cm Data 8-19-91 Profile Analysis Date 9-28-93 Analyz TB/RH  
X Position : 30:12.48 Y Position : 87:19.48  
Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 12.263 Final Weight : 12.119 Deviation : 1.174 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.563	12.897	77.490
-0.25	1.189	0.230	1.898	1.898	2.75	0.149	1.198	9.885	87.375
0.00	1.000	0.310	2.558	4.456	3.00	0.125	0.796	6.568	93.943
0.25	0.841	0.421	3.474	7.930	3.25	0.105	0.379	3.127	97.071
0.50	0.707	0.429	3.540	11.470	3.50	0.088	0.080	0.660	97.731
0.75	0.595	0.558	4.604	16.074	3.75	0.074	0.054	0.446	98.176
1.00	0.500	1.004	8.285	24.358	4.00	0.063	0.040	0.330	98.506
1.25	0.420	0.950	7.839	32.197	4.25	0.053	0.029	0.239	98.746
1.50	0.354	0.616	5.083	37.280	4.50	0.044	0.039	0.322	99.068
1.75	0.297	0.819	6.758	44.038	4.75	0.037	0.033	0.272	99.340
2.00	0.250	1.598	13.186	57.224	5.00	0.031	0.080	0.660	100.000
2.25	0.210	0.893	7.369	64.593					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	24.358	32.866	41.282
Unified Classification	0.000	0.000	32.197	65.979

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.75	0.97	-0.02	3.03
Folk Graphic Measures (PHI)	1.86	1.76	0.94	-0.18	0.87
Grain Size (mm)	0.27	0.10			

Offshore Pensacola, Florida (PEN91-02)

Locality Shelf Type Sand Sample 375 cm Data 8-19-91 Profile Analysis Date 9-28-93 Analyz TB/RH  
X Position : 30:12.48 Y Position : 87:19.48  
Elevation of Top of Core : 75  
Length of Core : 379 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bui

Start Weight : 12.299 Final Weight : 12.101 Deviation : 1.610 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.423	11.759	77.547
-0.25	1.189	0.149	1.231	1.231	2.75	0.149	1.076	8.692	86.439
0.00	1.000	0.261	2.157	3.388	3.00	0.125	0.741	6.123	92.663
0.25	0.841	0.396	3.272	6.661	3.25	0.105	0.360	2.975	95.538
0.50	0.707	0.371	3.066	9.726	3.50	0.088	0.091	0.752	96.290
0.75	0.595	0.590	4.876	14.602	3.75	0.074	0.074	0.612	96.901
1.00	0.500	1.172	9.685	24.287	4.00	0.063	0.061	0.504	97.405
1.25	0.420	1.053	8.702	32.989	4.25	0.053	0.050	0.413	97.818
1.50	0.354	0.722	5.966	38.955	4.50	0.044	0.065	0.537	98.356
1.75	0.297	0.855	7.066	46.021	4.75	0.037	0.051	0.421	98.777
2.00	0.250	1.550	12.809	58.830	5.00	0.031	0.148	1.223	100.000
2.25	0.210	0.842	6.958	65.788					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	24.287	34.543	38.575
Unified Classification	0.000	0.000	32.989	63.912

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.77	1.00	0.29	3.37
Folk Graphic Measures (PHI)	1.83	1.77	0.94	-0.10	0.89
Grain Size (mm)	0.28	0.29			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 5 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 12.196 Final Weight : 12.130 Deviation : 0.541 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.50	2.828	0.000	0.000	0.000	1.50	0.354	1.165	9.604	66.719
-1.25	2.378	0.145	1.195	1.195	1.75	0.297	1.226	10.107	76.826
-1.00	2.000	0.064	0.528	1.723	2.00	0.250	1.496	12.333	89.159
-0.75	1.682	0.071	0.585	2.308	2.25	0.210	0.457	3.768	92.927
-0.50	1.414	0.154	1.270	3.578	2.50	0.177	0.475	3.916	96.843
-0.25	1.189	0.197	1.624	5.202	2.75	0.149	0.180	1.484	98.326
0.00	1.000	0.294	2.424	7.626	3.00	0.125	0.094	0.775	99.101
0.25	0.841	0.508	4.188	11.814	3.25	0.105	0.049	0.404	99.505
0.50	0.707	0.673	5.548	17.362	3.50	0.088	0.015	0.124	99.629
0.75	0.595	1.027	8.467	25.829	3.75	0.074	0.012	0.099	99.728
1.00	0.500	1.981	16.331	42.160	4.00	0.063	0.033	0.272	100.000
1.25	0.420	1.814	14.955	57.115					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	1.723	40.437	46.999	10.841	0.000	0.000
Unified Classification	0.000	1.723	55.392	42.613	0.272	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.14	0.81	-0.34	3.92
Folk Graphic Measures (PHI)	1.13	1.16	0.77	-0.01	1.11
Grain Size (mm)	0.46	0.45			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 25 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 12.261 Final Weight : 12.178 Deviation : 0.677 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.345	11.045	79.824
-1.00	2.000	0.095	0.780	0.780	2.00	0.250	1.537	12.621	92.445
-0.75	1.682	0.095	0.780	1.560	2.25	0.210	0.416	3.416	95.861
-0.50	1.414	0.229	1.880	3.441	2.50	0.177	0.338	2.775	98.637
-0.25	1.189	0.202	1.659	5.099	2.75	0.149	0.103	0.846	99.483
0.00	1.000	0.273	2.242	7.341	3.00	0.125	0.017	0.304	99.787
0.25	0.841	0.577	4.738	12.079	3.25	0.105	0.015	0.123	99.910
0.50	0.707	0.709	5.822	17.901	3.50	0.088	0.004	0.033	99.943
0.75	0.595	1.005	8.253	26.154	3.75	0.074	0.002	0.016	99.959
1.00	0.500	2.031	16.678	42.831	4.00	0.063	0.002	0.016	99.975
1.25	0.420	1.896	15.569	58.400	4.25	0.053	0.003	0.025	100.000
1.50	0.354	1.264	10.379	68.780					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.780	42.051	49.614	7.530	0.025	0.000
Unified Classification	0.000	0.780	57.620	41.559	0.041	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.10	0.73	-0.43	3.44
Folk Graphic Measures (PHI)	1.12	1.12	0.73	-0.06	1.09
Grain Size (mm)	0.46	0.47			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
50 cm 8-19-91 7-8-93 SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 12.455 Final Weight : 12.441 Deviation : 0.112 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.25	2.378	0.000	0.000	0.000	1.50	0.354	1.324	10.642	57.495
-1.00	2.000	0.011	0.088	0.088	1.75	0.297	1.584	12.732	70.227
-0.75	1.682	0.047	0.378	0.466	2.00	0.250	2.143	17.225	87.453
-0.50	1.414	0.124	0.997	1.463	2.25	0.210	0.657	5.281	92.734
-0.25	1.189	0.172	1.383	2.845	2.50	0.177	0.593	4.766	97.500
0.00	1.000	0.235	1.889	4.734	2.75	0.149	0.184	1.479	98.979
0.25	0.841	0.433	3.480	8.215	3.00	0.125	0.068	0.547	99.526
0.50	0.707	0.565	4.541	12.756	3.25	0.105	0.029	0.233	99.759
0.75	0.595	0.795	6.390	19.146	3.50	0.088	0.010	0.080	99.839
1.00	0.500	1.687	13.560	32.706	3.75	0.074	0.006	0.048	99.887
1.25	0.420	1.760	14.147	46.853	4.00	0.063	0.014	0.113	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.088	32.618	54.746	12.547	0.000	0.000
Unified Classification	0.000	0.088	46.765	53.034	0.113	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		1.29	0.71	-0.35	3.31	
Folk Graphic Measures (PHI)	1.32	1.30	0.69	-0.08	1.00	
Grain Size (mm)	0.40	0.41				

Offshore Pensacola, FL (PEN-91-01)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
75 cm 8-19-91 7-8-93 SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 12.165 Final Weight : 12.105 Deviation : 0.493 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.248	10.310	85.097
-1.00	2.000	0.000	0.000	0.000	2.00	0.250	1.262	10.425	95.523
-0.75	1.682	0.004	0.033	0.033	2.25	0.210	0.279	2.305	97.827
-0.50	1.414	0.131	1.082	1.115	2.50	0.177	0.183	1.512	99.339
-0.25	1.189	0.268	2.214	3.329	2.75	0.149	0.047	0.388	99.727
0.00	1.000	0.406	3.354	6.683	3.00	0.125	0.016	0.132	99.860
0.25	0.841	0.735	6.072	12.755	3.25	0.105	0.007	0.058	99.917
0.50	0.707	0.880	7.270	20.025	3.50	0.088	0.003	0.025	99.942
0.75	0.595	1.161	9.591	29.616	3.75	0.074	0.003	0.025	99.967
1.00	0.500	2.289	18.910	48.525	4.00	0.063	0.002	0.017	99.983
1.25	0.420	1.936	15.993	64.519	4.25	0.053	0.002	0.017	100.000
1.50	0.354	1.243	10.268	74.787					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	48.525	46.997	4.461	0.017	0.000
Unified Classification	0.000	0.000	64.519	35.448	0.033	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		1.03	0.65	-0.12	2.99	
Folk Graphic Measures (PHI)	1.02	1.04	0.66	-0.03	0.99	
Grain Size (mm)	0.49	0.49				

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 100 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RM  
X Position : 30:10.93 Y Position : 87:17.65  
Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 12.353 Final Weight : 12.318 Deviation : 0.283 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.501	12.185	80.947
-1.00	2.000	0.078	0.633	0.633	2.00	0.250	1.576	12.794	93.741
-0.75	1.682	0.090	0.731	1.364	2.25	0.210	0.363	2.947	96.688
-0.50	1.414	0.088	0.714	2.078	2.50	0.177	0.268	2.176	98.863
-0.25	1.189	0.155	1.258	3.337	2.75	0.149	0.081	0.658	99.521
0.00	1.000	0.247	2.005	5.342	3.00	0.125	0.030	0.244	99.765
0.25	0.841	0.562	4.562	9.904	3.25	0.105	0.014	0.114	99.878
0.50	0.707	0.611	4.960	14.864	3.50	0.088	0.005	0.041	99.919
0.75	0.595	0.921	7.477	22.341	3.75	0.074	0.003	0.024	99.943
1.00	0.500	2.117	17.186	39.528	4.00	0.063	0.004	0.032	99.976
1.25	0.420	2.125	17.251	56.779	4.25	0.053	0.003	0.024	100.000
1.50	0.354	1.476	11.982	68.761					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.633	38.894	54.213	0.004
Unified Classification	0.000	0.633	56.145	0.057

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.14	0.67	-0.46	3.87
Folk Graphic Measures (PHI)	1.15	1.17	0.64	-0.04	1.05
Grain Size (mm)	0.45	0.45			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 125 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM  
X Position : 30:10.93 Y Position : 87:17.65  
Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.873 Final Weight : 12.831 Deviation : 0.326 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.697	13.226	76.370
-1.00	2.000	0.030	0.234	0.234	2.00	0.250	1.891	14.738	91.107
-0.75	1.682	0.000	0.000	0.234	2.25	0.210	0.506	3.944	95.051
-0.50	1.414	0.050	0.390	0.623	2.50	0.177	0.419	3.266	98.317
-0.25	1.189	0.075	0.585	1.208	2.75	0.149	0.138	1.076	99.192
0.00	1.000	0.112	0.873	2.081	3.00	0.125	0.050	0.390	99.782
0.25	0.841	0.365	2.845	4.926	3.25	0.105	0.021	0.164	99.945
0.50	0.707	0.581	4.528	9.454	3.50	0.088	0.005	0.039	99.984
0.75	0.595	0.916	7.139	16.593	3.75	0.074	0.002	0.016	100.000
1.00	0.500	2.090	16.289	32.881	4.00	0.063	0.000	0.000	100.000
1.25	0.420	2.293	17.871	50.752	4.25	0.053	0.000	0.000	100.000
1.50	0.354	1.590	12.392	63.144					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.234	32.647	58.226	0.000
Unified Classification	0.000	0.234	50.518	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.27	0.61	-0.21	3.50
Folk Graphic Measures (PHI)	1.24	1.28	0.59	0.06	0.97
Grain Size (mm)	0.42	0.41			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 150 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RM  
X Position : 30:10.93 Y Position : 07:17.65  
Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm  
Comments : Thuy Bul

Start Weight : 12.278		Final Weight : 12.251		Deviation : 0.220 %	
PHI	MM	Weight	Percent	Cumul	Percent
-1.50	2.828	0.000	0.000	72.166	
-1.25	2.378	0.071	0.580	9.583	72.166
-1.00	2.000	0.078	0.637	1.207	9.583
-0.75	1.682	0.060	0.490	1.216	1.207
-0.50	1.414	0.156	1.273	1.339	10.930
-0.25	1.189	0.265	2.163	2.898	95.845
0.00	1.000	0.376	3.069	2.669	98.514
0.25	0.841	0.785	6.408	0.108	0.882
0.50	0.707	0.833	6.799	0.042	0.343
0.75	0.585	1.146	9.354	0.019	0.155
1.00	0.500	2.100	17.141	0.005	0.041
1.25	0.420	1.797	14.668	0.005	0.041

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Hentworth Classification		1.216		46.698		7.052	
Unified Classification		0.000		1.216		61.366	
Standard Statistics :		Median		Mean		Dev.	
Method of Moments (PHI)		1.04		1.03		0.75	
Folk Graphic Measures (PHI)		1.04		1.04		0.74	
Grain Size (mm)		0.49		0.49		0.49	

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 175 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM  
X Position : 30:10.93 Y Position : 07:17.65  
Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm  
Comments : Thuy Bul

Start Weight : 12.509		Final Weight : 12.455		Deviation : 0.432 %	
PHI	MM	Weight	Percent	Cumul	Percent
-1.50	2.828	0.000	0.000	1.50	0.154
-1.25	2.378	0.128	1.028	1.75	0.297
-1.00	2.000	0.058	0.458	2.00	0.250
-0.75	1.682	0.084	0.674	2.25	0.210
-0.50	1.414	0.228	1.831	2.50	0.210
-0.25	1.189	0.346	2.776	2.75	0.177
0.00	1.000	0.547	4.392	3.00	0.149
0.25	0.841	0.954	7.560	3.25	0.125
0.50	0.707	0.969	7.760	3.50	0.105
0.75	0.585	1.323	10.622	3.75	0.086
1.00	0.500	2.253	18.089	4.00	0.074
1.25	0.420	1.740	13.970	4.00	0.063

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Hentworth Classification		1.493		53.826		39.623	
Unified Classification		0.000		1.493		67.796	
Standard Statistics :		Median		Mean		Dev.	
Method of Moments (PHI)		0.93		0.91		0.76	
Folk Graphic Measures (PHI)		0.93		0.92		0.75	
Grain Size (mm)		0.53		0.53		0.53	

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 200 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 12.752 Final Weight : 12.701 Deviation : 0.400 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.034	8.141	83.875
-1.00	2.000	0.221	1.740	1.740	2.00	0.250	1.174	9.243	93.119
-0.75	1.682	0.099	0.779	2.519	2.25	0.210	0.349	2.748	95.866
-0.50	1.414	0.299	2.354	4.874	2.50	0.177	0.333	2.622	98.488
-0.25	1.189	0.379	2.984	7.858	2.75	0.149	0.115	0.905	99.394
0.00	1.000	0.660	5.196	13.054	3.00	0.125	0.045	0.354	99.748
0.25	0.841	0.980	7.716	20.770	3.25	0.105	0.020	0.157	99.906
0.50	0.707	1.017	8.007	28.777	3.50	0.088	0.007	0.055	99.961
0.75	0.595	1.262	9.936	38.713	3.75	0.074	0.002	0.016	99.976
1.00	0.500	2.102	16.550	55.263	4.00	0.063	0.003	0.024	100.000
1.25	0.420	1.619	12.747	68.010	4.25	0.053	0.000	0.000	100.000
1.50	0.354	0.981	7.724	75.734					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	1.740	53.523	37.855	6.881
Unified Classification	0.000	1.740	66.270	31.966

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.91	0.80	-0.16	2.92
Folk Graphic Measures (PHI)	0.92	0.92	0.82	-0.03	1.00
Grain Size (mm)	0.53	0.53			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 225 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 12.014 Final Weight : 11.949 Deviation : 0.541 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.057	8.846	83.697
-1.00	2.000	0.009	0.075	0.075	2.00	0.250	1.163	9.733	93.430
-0.75	1.682	0.036	0.301	0.377	2.25	0.210	0.319	2.670	96.100
-0.50	1.414	0.175	1.465	1.841	2.50	0.177	0.289	2.419	98.519
-0.25	1.189	0.370	3.096	4.938	2.75	0.149	0.102	0.854	99.372
0.00	1.000	0.453	3.791	8.729	3.00	0.125	0.039	0.326	99.699
0.25	0.841	0.838	7.013	15.742	3.25	0.105	0.018	0.151	99.849
0.50	0.707	0.989	8.277	24.019	3.50	0.088	0.008	0.067	99.916
0.75	0.595	1.176	9.842	33.861	3.75	0.074	0.005	0.042	99.958
1.00	0.500	2.172	18.177	52.038	4.00	0.063	0.003	0.025	99.983
1.25	0.420	1.674	14.010	66.047	4.25	0.053	0.002	0.017	100.000
1.50	0.354	1.052	8.804	74.851					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.075	51.963	41.393	6.553
Unified Classification	0.000	0.075	65.972	33.911

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.99	0.72	0.02	2.96
Folk Graphic Measures (PHI)	0.97	1.00	0.74	0.01	1.00
Grain Size (mm)	0.51	0.50			



Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 250 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 12.910 Final Weight : 12.871 Deviation : 0.302 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.50	2.828	0.000	0.000	0.000	1.50	0.354	1.201	9.331	69.808
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.268	9.852	79.660
-1.00	2.000	0.033	0.256	0.256	2.00	0.250	1.494	11.607	91.267
-0.75	1.682	0.062	0.482	0.738	2.25	0.210	0.443	3.442	94.709
-0.50	1.414	0.174	1.352	2.090	2.50	0.177	0.449	3.488	98.197
-0.25	1.189	0.358	2.781	4.871	2.75	0.149	0.144	1.119	99.316
0.00	1.000	0.448	3.481	8.352	3.00	0.125	0.055	0.427	99.744
0.25	0.841	0.764	5.936	14.288	3.25	0.105	0.025	0.194	99.938
0.50	0.707	0.893	6.938	21.226	3.50	0.088	0.005	0.039	99.977
0.75	0.595	1.168	9.075	30.301	3.75	0.074	0.001	0.023	100.000
1.00	0.500	2.046	15.896	46.197	4.00	0.063	0.000	0.000	100.000
1.25	0.420	1.838	14.280	60.477					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.256	45.940	45.070	8.733	0.000	0.000
Unified Classification	0.000	0.256	60.221	39.523	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.07	0.74	-0.16	2.84
Folk Graphic Measures (PHI)	1.07	1.07	0.76	-0.01	1.00
Grain Size (mm)	0.48	0.48			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 275 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 12.784 Final Weight : 12.733 Deviation : 0.415 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.50	2.828	0.000	0.000	0.000	1.50	0.354	1.075	8.444	70.890
-1.25	2.378	0.152	1.194	1.194	1.75	0.297	1.185	9.308	80.198
-1.00	2.000	0.110	0.864	2.058	2.00	0.250	1.453	11.413	91.611
-0.75	1.682	0.115	0.903	2.961	2.25	0.210	0.430	3.378	94.989
-0.50	1.414	0.284	2.231	5.192	2.50	0.177	0.413	3.244	98.233
-0.25	1.189	0.348	2.733	7.926	2.75	0.149	0.135	1.060	99.293
0.00	1.000	0.574	4.509	12.434	3.00	0.125	0.055	0.432	99.725
0.25	0.841	0.836	6.567	19.001	3.25	0.105	0.021	0.165	99.890
0.50	0.707	0.855	6.716	25.717	3.50	0.088	0.007	0.055	99.945
0.75	0.595	1.121	8.805	34.522	3.75	0.074	0.003	0.024	99.969
1.00	0.500	1.926	15.128	49.650	4.00	0.063	0.004	0.031	100.000
1.25	0.420	1.629	12.796	62.446					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	2.058	47.592	41.961	8.389	0.000	0.000
Unified Classification	0.000	2.058	60.388	37.523	0.031	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.98	0.83	-0.37	3.07
Folk Graphic Measures (PHI)	1.01	0.99	0.84	-0.06	1.00
Grain Size (mm)	0.50	0.51			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 300 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 12.875 Final Weight : 12.805 Deviation : 0.544 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.044	8.153	84.201
-1.00	2.000	0.066	0.515	0.515	2.00	0.250	1.168	9.121	93.323
-0.75	1.682	0.098	0.765	1.281	2.25	0.210	0.355	2.772	96.095
-0.50	1.414	0.338	2.640	3.920	2.50	0.177	0.321	2.507	98.602
-0.25	1.189	0.394	3.077	6.997	2.75	0.149	0.109	0.851	99.453
0.00	1.000	0.659	5.146	12.144	3.00	0.125	0.041	0.320	99.774
0.25	0.841	1.076	8.403	20.547	3.25	0.105	0.018	0.141	99.914
0.50	0.707	1.043	8.145	28.692	3.50	0.088	0.006	0.047	99.961
0.75	0.595	1.281	10.004	38.696	3.75	0.074	0.002	0.016	99.977
1.00	0.500	2.127	16.611	55.307	4.00	0.063	0.001	0.008	99.984
1.25	0.420	1.637	12.784	68.091	4.25	0.053	0.002	0.016	100.000
1.50	0.354	1.019	7.958	76.048					

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.515	54.791	38.016	6.661	0.016	0.000	
Unified Classification	0.000	0.515	67.575	31.886	0.023	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.92	0.77	-0.05	2.79
Folk Graphic Measures (PHI)	0.92	0.93	0.80	-0.01	0.97
Grain Size (mm)	0.53	0.53			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 325 cm Date 8-19-91 Profile Analysis Date 7-8-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 12.466 Final Weight : 12.413 Deviation : 0.425 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.067	8.596	80.077
-1.00	2.000	0.615	4.954	4.954	2.00	0.250	1.356	10.924	91.001
-0.75	1.682	0.277	2.232	7.186	2.25	0.210	0.439	3.537	94.538
-0.50	1.414	0.406	3.271	10.457	2.50	0.177	0.433	3.488	98.026
-0.25	1.189	0.295	2.377	12.833	2.75	0.149	0.148	1.192	99.219
0.00	1.000	0.538	4.334	17.167	3.00	0.125	0.057	0.450	99.678
0.25	0.841	0.826	6.654	23.822	3.25	0.105	0.024	0.193	99.871
0.50	0.707	0.815	6.566	30.387	3.50	0.088	0.006	0.048	99.919
0.75	0.595	0.971	7.822	38.210	3.75	0.074	0.005	0.040	99.960
1.00	0.500	1.712	13.792	52.002	4.00	0.063	0.002	0.016	99.976
1.25	0.420	1.472	11.859	63.860	4.25	0.053	0.003	0.024	100.000
1.50	0.354	0.946	7.621	71.482					

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	4.954	47.047	38.999	8.974	0.024	0.000	
Unified Classification	0.000	4.954	58.906	36.099	0.040	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.89	0.93	-0.16	2.67
Folk Graphic Measures (PHI)	0.96	0.91	0.97	-0.14	1.03
Grain Size (mm)	0.51	0.54			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-19-91 7-8-93 SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 12.142 Final Weight : 12.106 Deviation : 0.296 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.50	2.828	0.000	0.000	0.000	1.50	0.354	1.009	8.335	56.550
-1.25	2.378	0.257	2.123	2.123	1.75	0.297	1.258	10.392	66.942
-1.00	2.000	0.119	0.983	3.106	2.00	0.250	1.963	16.215	83.157
-0.75	1.682	0.123	1.016	4.122	2.25	0.210	0.754	6.228	89.385
-0.50	1.414	0.270	2.230	6.352	2.50	0.177	0.811	6.699	96.085
-0.25	1.189	0.255	2.106	8.459	2.75	0.149	0.285	2.354	98.439
0.00	1.000	0.318	2.627	11.085	3.00	0.125	0.117	0.966	99.405
0.25	0.841	0.550	4.543	15.629	3.25	0.105	0.047	0.388	99.793
0.50	0.707	0.532	4.395	20.023	3.50	0.088	0.010	0.083	99.876
0.75	0.595	0.740	6.113	26.136	3.75	0.074	0.006	0.050	99.926
1.00	0.500	1.353	11.176	37.312	4.00	0.063	0.009	0.074	100.000
1.25	0.420	1.320	10.904	48.216					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	3.106	34.206	45.845	16.843	0.000	0.000
Unified Classification	0.000	3.106	45.110	51.710	0.074	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.19	0.93	-0.68	3.26
Folk Graphic Measures (PHI)	1.30	1.20	0.91	-0.21	1.09
Grain Size (mm)	0.41	0.44			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-19-91 7-13-93 SA/RH

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 360 cm  
Depth to Bottom of Sample : 370 cm

Comments : Thuy Bul

Start Weight : 12.737 Final Weight : 12.694 Deviation : 0.338 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.50	2.828	0.000	0.000	0.000	1.50	0.354	1.203	9.477	50.197
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.525	12.014	62.210
-1.00	2.000	0.000	0.000	0.000	2.00	0.250	2.389	18.820	81.030
-0.75	1.682	0.010	0.079	0.079	2.25	0.210	1.003	7.901	88.932
-0.50	1.414	0.007	0.055	0.134	2.50	0.177	0.915	7.208	96.140
-0.25	1.189	0.082	0.646	0.780	2.75	0.149	0.318	2.505	98.645
0.00	1.000	0.227	1.788	2.568	3.00	0.125	0.119	0.937	99.582
0.25	0.841	0.524	4.128	6.696	3.25	0.105	0.043	0.339	99.921
0.50	0.707	0.487	3.836	10.533	3.50	0.088	0.009	0.071	99.992
0.75	0.595	0.763	6.011	16.543	3.75	0.074	0.001	0.008	100.000
1.00	0.500	1.520	11.974	28.517	4.00	0.063	0.000	0.000	100.000
1.25	0.420	1.549	12.203	40.720					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	28.517	52.513	18.970	0.000	0.000
Unified Classification	0.000	0.000	40.720	59.280	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.42	0.70	-0.28	2.65
Folk Graphic Measures (PHI)	1.49	1.44	0.69	-0.14	0.95
Grain Size (mm)	0.35	0.37			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 170 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 365 cm  
Depth to Bottom of Sample : 375 cm

Comments : Thuy Bul

Start Weight : 12.710 Final Weight : 12.700 Deviation : 0.079 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.75	3.364	0.000	0.000	0.000	1.25	0.420	1.529	12.039	48.165
-1.50	2.828	0.243	1.913	1.913	1.50	0.354	1.134	8.929	57.094
-1.25	2.378	0.175	1.378	3.291	1.75	0.297	1.362	10.724	67.819
-1.00	2.000	0.000	0.000	3.291	2.00	0.250	2.275	17.913	85.732
-0.75	1.682	0.013	0.102	3.394	2.25	0.210	0.662	5.213	90.945
-0.50	1.414	0.022	0.173	3.567	2.50	0.177	0.721	5.677	96.622
-0.25	1.189	0.237	1.866	5.433	2.75	0.149	0.270	2.126	98.748
0.00	1.000	0.361	2.843	8.276	3.00	0.125	0.103	0.811	99.559
0.25	0.841	0.570	4.488	12.764	3.25	0.105	0.042	0.331	99.890
0.50	0.707	0.570	4.488	17.252	3.50	0.088	0.009	0.071	99.961
0.75	0.595	0.822	6.472	23.724	3.75	0.074	0.005	0.039	100.000
1.00	0.500	1.575	12.402	36.126					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	3.291	32.835	49.606	14.268
Unified Classification	0.000	3.291	44.874	51.835

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.22	0.88	-0.91	4.30
Folk Graphic Measures (PHI)	1.30	1.24	0.80	-0.15	1.04
Grain Size (mm)	0.41	0.43			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 175 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 12.367 Final Weight : 12.338 Deviation : 0.234 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.395	11.307	64.694
-0.75	1.682	0.008	0.065	0.065	2.00	0.250	2.277	18.455	83.150
-0.50	1.414	0.091	0.738	0.802	2.25	0.210	0.797	6.460	89.609
-0.25	1.189	0.247	2.002	2.804	2.50	0.177	0.846	6.857	96.466
0.00	1.000	0.386	3.129	5.933	2.75	0.149	0.267	2.164	98.630
0.25	0.841	0.584	4.733	10.666	3.00	0.125	0.104	0.843	99.473
0.50	0.707	0.538	4.361	15.027	3.25	0.105	0.043	0.349	99.822
0.75	0.595	0.791	6.411	21.438	3.50	0.088	0.011	0.089	99.911
1.00	0.500	1.412	11.444	32.882	3.75	0.074	0.005	0.041	99.951
1.25	0.420	1.420	11.509	44.391	4.00	0.063	0.003	0.024	99.976
1.50	0.354	1.110	8.997	53.388	4.25	0.053	0.003	0.024	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	32.882	50.267	16.826
Unified Classification	0.000	0.000	44.391	55.560

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.33	0.76	-0.33	2.68
Folk Graphic Measures (PHI)	1.41	1.33	0.76	-0.17	0.97
Grain Size (mm)	0.38	0.40			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 380 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 375 cm  
Depth to Bottom of Sample : 385 cm

Comments : Thuy Bui

Start Weight : 12.099 Final Weight : 12.056 Deviation : 0.355 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.272	10.551	66.946
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.974	16.374	83.320
-0.50	1.414	0.021	0.174	0.174	2.25	0.210	0.767	6.362	89.681
-0.25	1.189	0.224	1.858	2.032	2.50	0.177	0.827	6.860	96.541
0.00	1.000	0.408	3.384	5.416	2.75	0.149	0.291	2.414	98.955
0.25	0.841	0.644	5.342	10.758	3.00	0.125	0.084	0.697	99.652
0.50	0.707	0.634	5.259	16.017	3.25	0.105	0.029	0.241	99.892
0.75	0.595	0.897	7.440	23.457	3.50	0.088	0.006	0.050	99.942
1.00	0.500	1.503	12.467	35.924	3.75	0.074	0.002	0.017	99.959
1.25	0.420	1.413	11.720	47.644	4.00	0.063	0.001	0.008	99.967
1.50	0.354	1.055	8.751	56.395	4.25	0.053	0.004	0.033	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	35.924	47.395	16.647	0.033	0.000
Unified Classification	0.000	0.000	47.644	52.314	0.041	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.29	0.75	-0.18	2.45
Folk Graphic Measures (PHI)	1.32	1.28	0.76	-0.08	0.93
Grain Size (mm)	0.40	0.41			

Offshore Pensacola, FL (PEN-91-03)

Locality Shelf Type Sand Sample 385 cm Date 8-19-91 Profile Analysis Date 7-13-93 Analyz SA/RM

X Position : 30:10.93 Y Position : 87:17.65

Elevation of Top of Core : 61'  
Length of Core : 388 cm  
Depth to Top of Sample : 380 cm  
Depth to Bottom of Sample : 390 cm

Comments : Thuy Bui

Start Weight : 12.498 Final Weight : 12.441 Deviation : 0.456 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.474	11.848	57.608
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	2.599	20.891	78.499
-0.50	1.414	0.008	0.064	0.064	2.25	0.210	0.988	7.941	86.440
-0.25	1.189	0.064	0.514	0.579	2.50	0.177	1.094	8.794	95.234
0.00	1.000	0.190	1.527	2.106	2.75	0.149	0.379	3.046	98.280
0.25	0.841	0.401	3.223	5.329	3.00	0.125	0.140	1.125	99.405
0.50	0.707	0.435	3.497	8.826	3.25	0.105	0.053	0.426	99.831
0.75	0.595	0.674	5.418	14.243	3.50	0.088	0.011	0.088	99.920
1.00	0.500	1.356	10.899	25.143	3.75	0.074	0.004	0.032	99.952
1.25	0.420	1.380	11.092	36.235	4.00	0.063	0.003	0.024	99.976
1.50	0.354	1.185	9.525	45.760	4.25	0.053	0.003	0.024	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	25.143	53.156	21.477	0.024	0.000
Unified Classification	0.000	0.000	36.235	63.717	0.048	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.49	0.69	-0.30	2.76
Folk Graphic Measures (PHI)	1.59	1.52	0.69	-0.18	0.97
Grain Size (mm)	0.33	0.36			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample Top Date 8-19-91 Profile Analysis Date 9-10-93 Analyz TC/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample :  
Depth to Bottom of Sample :

Comments : Thuy Bul

Start Weight : 11.286 Final Weight : 11.408 Deviation : 1.081 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	2.263	19.837	37.149
1.25	0.420	0.022	0.193	0.193	3.00	0.125	2.963	25.973	63.122
1.50	0.354	0.023	0.202	0.394	3.25	0.105	2.612	22.896	86.019
1.75	0.297	0.044	0.386	0.780	3.50	0.088	0.823	7.214	93.233
2.00	0.250	0.228	1.999	2.779	3.75	0.074	0.429	3.761	96.993
2.25	0.210	0.355	3.112	5.891	4.00	0.063	0.167	1.464	98.457
2.50	0.177	1.303	11.422	17.312	4.25	0.053	0.176	1.543	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.000	2.779	95.678	1.543	0.000
Unified Classification	0.000	0.000	0.193	96.800	3.007	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.87	0.43	0.02	4.14
Folk Graphic Measures (PHI)	2.87	2.86	0.41	-0.01	1.11
Grain Size (mm)	0.14	0.14			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample Bottom Date 8-19-91 Profile Analysis Date 9-10-93 Analyz TC/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample :  
Depth to Bottom of Sample :

Comments : Thuy Bul

Start Weight : 10.494 Final Weight : 10.468 Deviation : 0.248 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.522	14.540	52.942
0.50	0.707	0.020	0.191	0.191	2.75	0.149	1.370	13.088	66.030
0.75	0.595	0.158	1.509	1.700	3.00	0.125	1.458	13.928	79.958
1.00	0.500	0.543	5.187	6.888	3.25	0.105	1.206	11.521	91.479
1.25	0.420	0.564	5.388	12.276	3.50	0.088	0.419	4.003	95.481
1.50	0.354	0.417	3.984	16.259	3.75	0.074	0.201	1.920	97.402
1.75	0.297	0.507	4.843	21.102	4.00	0.063	0.091	0.869	98.271
2.00	0.250	1.036	9.897	30.999	4.25	0.053	0.045	0.430	98.701
2.25	0.210	0.775	7.404	38.403	4.50	0.044	0.136	1.299	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	6.888	24.112	67.272	1.729	0.000
Unified Classification	0.000	0.000	12.276	85.126	2.598	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.35	0.78	-0.23	2.77
Folk Graphic Measures (PHI)	2.45	2.34	0.79	-0.20	0.99
Grain Size (mm)	0.18	0.20			

2-1-10

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 5 cm Date 8-19-91 Profile Analysis Data 8-25-93 Analyz TB/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 12.833 Final Weight : 12.778 Deviation : 0.429 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.25	0.210	0.761	5.956	51.049
-0.25	1.189	1.056	8.264	8.264	2.50	0.177	1.607	12.576	63.625
0.00	1.000	0.270	2.113	10.377	2.75	0.149	1.422	11.129	74.753
0.25	0.841	0.264	2.066	12.443	3.00	0.125	1.410	11.035	85.788
0.50	0.707	0.276	2.160	14.603	3.25	0.105	1.178	9.219	95.007
0.75	0.595	0.367	2.872	17.475	3.50	0.088	0.366	2.864	97.871
1.00	0.500	0.685	5.361	22.836	3.75	0.074	0.161	1.260	99.131
1.25	0.420	0.672	5.259	28.095	4.00	0.063	0.062	0.485	99.617
1.50	0.354	0.459	3.592	31.687	4.25	0.053	0.021	0.164	99.781
1.75	0.297	0.573	4.484	36.172	4.50	0.044	0.013	0.102	99.883
2.00	0.250	1.140	8.922	45.093	4.75	0.037	0.015	0.117	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	22.836	22.257	54.523	0.383	0.000
Unified Classification	0.000	0.000	28.095	71.036	0.869	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.89	1.12	-0.62	2.44
Folk Graphic Measures (PHI)	2.21	1.93	1.13	-0.39	0.89
Grain Size (mm)	0.22	0.27			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 25 cm Date 8-19-91 Profile Analysis Data 8-23-93 Analyz SA/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 12.143 Final Weight : 12.083 Deviation : 0.494 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.25	0.210	0.949	7.854	52.545
-0.25	1.189	0.376	3.112	3.112	2.50	0.177	1.803	14.922	67.467
0.00	1.000	0.132	1.092	4.204	2.75	0.149	1.407	11.644	79.111
0.25	0.841	0.196	1.622	5.826	3.00	0.125	1.230	10.180	89.291
0.50	0.707	0.216	1.788	7.614	3.25	0.105	0.898	7.432	96.723
0.75	0.595	0.317	2.624	10.238	3.50	0.088	0.243	2.011	98.734
1.00	0.500	0.679	5.619	15.857	3.75	0.074	0.096	0.795	99.528
1.25	0.420	0.713	5.901	21.758	4.00	0.063	0.033	0.273	99.801
1.50	0.354	0.584	4.833	26.591	4.25	0.053	0.009	0.074	99.876
1.75	0.297	0.732	6.058	32.649	4.50	0.044	0.006	0.050	99.926
2.00	0.250	1.455	12.042	44.691	4.75	0.037	0.009	0.074	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	15.857	28.834	55.110	0.199	0.000
Unified Classification	0.000	0.000	21.758	77.770	0.472	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.92	-0.69	3.04
Folk Graphic Measures (PHI)	2.17	2.02	0.93	-0.29	1.01
Grain Size (mm)	0.22	0.25			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 50 cm Date 8-19-91 Profile Analysis Date 8-25-91 Analyz TB/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.272 Final Weight : 12.262 Deviation : 0.081 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.511	4.167	14.027
0.00	1.000	0.124	1.011	1.011	2.00	0.250	1.367	11.148	25.175
0.25	0.841	0.044	0.359	1.370	2.25	0.210	1.045	8.522	33.698
0.50	0.707	0.034	0.277	1.647	2.50	0.177	2.325	18.961	52.659
0.75	0.595	0.057	0.465	2.112	2.75	0.149	2.061	16.808	69.467
1.00	0.500	0.221	1.802	3.915	3.00	0.125	1.812	14.777	84.244
1.25	0.420	0.360	2.936	6.850	3.25	0.105	1.323	10.789	95.033
1.50	0.354	0.369	3.009	9.860	3.50	0.088	0.609	4.967	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.915	21.261	74.825	0.000	0.000
Unified Classification	0.000	0.000	6.850	93.150	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.37	0.66	-1.06	4.59
Folk Graphic Measures (PHI)	2.46	2.42	0.63	-0.19	1.04
Grain Size (mm)	0.18	0.19			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 75 cm Date 8-19-91 Profile Analysis Date 8-26-91 Analyz TB/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 12.006 Final Weight : 11.981 Deviation : 0.208 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.00	0.250	1.264	10.550	18.112
0.25	0.841	0.043	0.359	0.359	2.25	0.210	1.055	8.806	26.918
0.50	0.707	0.020	0.167	0.526	2.50	0.177	2.420	20.199	47.116
0.75	0.595	0.032	0.267	0.793	2.75	0.149	2.245	18.738	65.854
1.00	0.500	0.067	0.559	1.352	3.00	0.125	1.973	16.468	82.322
1.25	0.420	0.146	1.219	2.571	3.25	0.105	1.478	12.336	94.658
1.50	0.354	0.200	1.669	4.240	3.50	0.088	0.416	3.472	98.130
1.75	0.297	0.398	3.322	7.562	3.75	0.074	0.224	1.870	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	1.352	16.760	81.888	0.000	0.000
Unified Classification	0.000	0.000	2.571	97.429	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.50	0.55	-0.74	4.36
Folk Graphic Measures (PHI)	2.54	2.51	0.53	-0.11	1.02
Grain Size (mm)	0.17	0.18			



Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 100 cm Date 8-19-91 Profile Analysis Date 8-25-93 TB/RM  
X Position : 30:08.13 Y Position : 87:21.61  
Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm  
Comments : Thuy Bui

Start Weight : 12.096			Final Weight : 12.081			Deviation : 0.124 %		
PHI	MH	Weight Percent	Cumul Percent	PHI	MH	Weight Percent	Cumul Percent	
-0.25	1.189	0.000	0.000	1.75	0.297	0.193	1.598	4.329
0.00	1.000	0.038	0.315	2.00	0.250	1.035	8.567	12.896
0.25	0.841	0.013	0.108	2.25	0.210	1.089	9.014	21.910
0.50	0.707	0.022	0.182	2.50	0.177	2.851	23.599	45.509
0.75	0.595	0.029	0.240	2.75	0.149	2.474	20.478	65.988
1.00	0.500	0.062	0.513	3.00	0.125	2.126	17.598	83.586
1.25	0.420	0.074	0.613	3.25	0.105	1.440	11.920	95.505
1.50	0.354	0.092	0.762	3.50	0.088	0.543	4.495	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt		Clay	
	coarse	medium	fine	medium	fine	medium	fine	
Wentworth Classification	0.000	1.358	11.539	87.104	0.000	0.000	0.000	
Unified Classification	0.000	0.000	1.970	96.030	0.000	0.000	0.000	
Standard Statistics :								
	Median		Mean		Dev.		Skew	
Method of Moments (Phi)	2.55		2.53		0.50		-1.16	
Folk Graphic Measures (Phi)	0.17		2.55		0.45		-0.04	
Grain Size (mm)	0.17		0.17		0.17		0.17	
							Kurt	
							6.58	
							1.01	

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 125 cm Date 8-19-91 Profile Analysis Date 8-25-93 TB/RM  
X Position : 30:08.13 Y Position : 87:21.61  
Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm  
Comments : Thuy Bui

Start Weight : 12.112			Final Weight : 12.076			Deviation : 0.297 %		
PHI	MH	Weight Percent	Cumul Percent	PHI	MH	Weight Percent	Cumul Percent	
-0.25	1.189	0.000	0.000	2.00	0.250	0.127	2.708	5.109
0.00	1.000	0.010	0.083	2.25	0.210	0.420	3.478	8.587
0.25	0.841	0.009	0.075	2.50	0.177	1.677	13.887	22.474
0.50	0.707	0.012	0.099	2.75	0.149	2.550	21.116	43.591
0.75	0.595	0.015	0.124	3.00	0.125	3.021	25.017	68.607
1.00	0.500	0.041	0.340	3.25	0.105	2.498	20.686	89.293
1.25	0.420	0.058	0.480	3.50	0.088	0.691	5.722	95.015
1.50	0.354	0.061	0.505	3.75	0.074	0.388	3.213	98.228
1.75	0.297	0.084	0.696	4.00	0.063	0.214	1.772	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
	coarse	medium		fine			
Wentworth Classification	0.000	0.720	4.389	94.891	0.000	0.000	0.000
Unified Classification	0.000	0.000	1.201	97.027	1.772	0.000	0.000
Standard Statistics :							
	Median		Mean		Dev.		Skew
Method of Moments (PHI)	2.81		2.78		0.47		-1.01
	0.14		2.79		0.43		-0.08
	0.15		0.15		0.15		0.15
Folk Graphic Measures (PHI)							
Grain Size (mm)							
							Kurt

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 150 cm Date 8-19-91 Profile Analysis Data 8-23-93 Analyz SA/RH

X Position : 30:08.13 Y Position : 07:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 11.073 Final Weight : 11.025 Deviation : 0.433 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.25	0.210	0.363	3.293	17.451
-0.25	1.189	0.050	0.454	0.454	2.50	0.177	0.879	7.973	25.424
0.00	1.000	0.020	0.181	0.635	2.75	0.149	1.271	11.528	36.952
0.25	0.841	0.047	0.426	1.061	3.00	0.125	2.191	19.873	56.825
0.50	0.707	0.047	0.426	1.488	3.25	0.105	2.757	25.007	81.832
0.75	0.595	0.077	0.698	2.186	3.50	0.088	0.969	8.789	90.621
1.00	0.500	0.148	1.342	3.528	3.75	0.074	0.642	5.823	96.444
1.25	0.420	0.163	1.478	5.007	4.00	0.063	0.234	2.122	98.567
1.50	0.354	0.156	1.415	6.422	4.25	0.053	0.072	0.653	99.220
1.75	0.297	0.239	2.168	8.590	4.50	0.044	0.040	0.363	99.583
2.00	0.250	0.614	5.569	14.159	4.75	0.037	0.046	0.417	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.528	10.630	84.408	1.433	0.000
Unified Classification	0.000	0.000	5.007	91.438	3.556	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.76	0.73	-1.29	5.74
Folk Graphic Measures (PHI)	2.91	2.79	0.66	-0.34	1.44
Grain Size (mm)	0.13	0.15			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 175 cm Date 8-19-91 Profile Analysis Data 8-25-93 Analyz TH/RH

X Position : 30:08.13 Y Position : 07:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 12.391 Final Weight : 12.370 Deviation : 0.169 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.25	0.210	0.496	4.010	8.771
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.683	13.605	22.377
0.00	1.000	0.004	0.032	0.032	2.75	0.149	2.334	18.868	41.245
0.25	0.841	0.008	0.065	0.097	3.00	0.125	2.824	22.829	64.074
0.50	0.707	0.004	0.032	0.129	3.25	0.105	2.724	22.021	86.095
0.75	0.595	0.007	0.057	0.186	3.50	0.088	0.896	7.243	93.339
1.00	0.500	0.021	0.170	0.356	3.75	0.074	0.527	4.260	97.599
1.25	0.420	0.031	0.251	0.606	4.00	0.063	0.188	1.520	99.119
1.50	0.354	0.042	0.340	0.946	4.25	0.053	0.056	0.453	99.572
1.75	0.297	0.084	0.679	1.625	4.50	0.044	0.029	0.234	99.806
2.00	0.250	0.388	3.137	4.762	4.75	0.037	0.024	0.194	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.356	4.406	94.357	0.881	0.000
Unified Classification	0.000	0.000	0.606	96.993	2.401	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.82	0.48	-0.40	5.40
Folk Graphic Measures (PHI)	2.85	2.82	0.45	-0.07	1.10
Grain Size (mm)	0.14	0.14			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 200 cm Date 8-19-91 Profile Analysis Date 8-25-93 Analyz TB/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 12.022 Final Weight : 11.961 Deviation : 0.507 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.284	2.374	5.192
0.00	1.000	0.003	0.025	0.025	2.50	0.177	1.103	9.222	14.414
0.25	0.841	0.003	0.025	0.050	2.75	0.149	1.830	15.300	29.713
0.50	0.707	0.008	0.067	0.117	3.00	0.125	2.607	21.796	51.509
0.75	0.595	0.010	0.084	0.201	3.25	0.105	3.237	27.063	78.572
1.00	0.500	0.019	0.159	0.360	3.50	0.088	1.164	9.732	88.304
1.25	0.420	0.020	0.167	0.527	3.75	0.074	0.828	6.922	95.226
1.50	0.354	0.022	0.184	0.711	4.00	0.063	0.324	2.709	97.935
1.75	0.297	0.041	0.343	1.053	4.25	0.053	0.247	2.065	100.000
2.00	0.250	0.211	1.764	2.817					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.360	2.458	95.117
Unified Classification	0.000	0.000	0.527	94.699

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.96	0.48	-0.48	5.44
Folk Graphic Measures (PHI)	2.98	2.97	0.44	-0.03	1.14
Grain Size (mm)	0.13	0.13			

Offshore Pensacola, FL (PEN-91-04)

Locality Shelf Type Sand Sample 225 cm Date 8-19-91 Profile Analysis Date 8-25-93 Analyz TB/RM

X Position : 30:08.13 Y Position : 87:21.61

Elevation of Top of Core : 91'  
Length of Core : 248 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 12.031 Final Weight : 11.982 Deviation : 0.407 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.307	10.908	15.473
0.25	0.841	0.015	0.125	0.125	2.75	0.149	2.118	17.677	31.150
0.50	0.707	0.005	0.042	0.167	3.00	0.125	2.866	23.919	57.069
0.75	0.595	0.007	0.058	0.225	3.25	0.105	3.120	26.039	83.108
1.00	0.500	0.010	0.083	0.309	3.50	0.088	1.157	9.656	92.764
1.25	0.420	0.011	0.092	0.401	3.75	0.074	0.535	4.465	97.229
1.50	0.354	0.012	0.100	0.501	4.00	0.063	0.209	1.744	98.973
1.75	0.297	0.025	0.209	0.709	4.25	0.053	0.063	0.526	99.499
2.00	0.250	0.158	1.319	2.028	4.50	0.044	0.029	0.242	99.741
2.25	0.210	0.304	2.537	4.565	4.75	0.037	0.031	0.259	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.309	1.719	98.945
Unified Classification	0.000	0.000	0.401	96.829

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.91	0.44	-0.40	6.65
Folk Graphic Measures (PHI)	2.93	2.90	0.40	-0.03	1.04
Grain Size (mm)	0.13	0.13			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 5 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM  
 X Position : 30:03.81 Y Position : 87:27.70  
 Elevation of Top of Core : 68'  
 Length of Core : 462 cm  
 Depth to Top of Sample : 0 cm  
 Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 11.969 Final Weight : 11.905 Deviation : 0.535 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.658	5.527	92.961
-0.25	1.189	0.039	0.328	0.328	2.25	0.210	0.488	4.099	97.060
0.00	1.000	0.076	0.638	0.966	2.50	0.177	0.158	1.327	98.387
0.25	0.841	0.110	0.924	1.890	2.75	0.149	0.079	0.664	99.051
0.50	0.707	0.299	2.512	4.402	3.00	0.125	0.049	0.412	99.462
0.75	0.595	1.114	9.357	13.759	3.25	0.105	0.018	0.151	99.614
1.00	0.500	2.032	17.068	30.827	3.50	0.088	0.012	0.101	99.714
1.25	0.420	1.659	13.935	44.763	3.75	0.074	0.009	0.076	99.790
1.50	0.354	2.326	19.538	64.301	4.00	0.063	0.002	0.017	99.807
1.75	0.297	2.754	23.133	87.434	4.25	0.053	0.023	0.193	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	30.827	62.134	6.846	0.193	0.000
Unified Classification	0.000	0.000	44.763	55.027	0.210	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.29	0.52	0.43	5.30
Folk Graphic Measures (PHI)	1.32	1.27	0.48	-0.07	0.94
Grain Size (mm)	0.40	0.41			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 25 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM  
 X Position : 30:03.81 Y Position : 87:27.70  
 Elevation of Top of Core : 68'  
 Length of Core : 462 cm  
 Depth to Top of Sample : 20 cm  
 Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 12.012 Final Weight : 11.977 Deviation : 0.291 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.346	11.238	96.268
-0.50	1.414	0.042	0.351	0.351	2.25	0.210	0.242	2.021	98.288
-0.25	1.189	0.148	1.236	1.586	2.50	0.177	0.135	1.127	99.416
0.00	1.000	0.203	1.695	3.281	2.75	0.149	0.035	0.292	99.708
0.25	0.841	0.479	3.999	7.281	3.00	0.125	0.016	0.134	99.841
0.50	0.707	0.616	5.143	12.424	3.25	0.105	0.008	0.067	99.908
0.75	0.595	1.165	9.727	22.151	3.50	0.088	0.003	0.025	99.933
1.00	0.500	2.334	19.487	41.638	3.75	0.074	0.003	0.025	99.958
1.25	0.420	2.369	19.780	61.418	4.00	0.063	0.001	0.008	99.967
1.50	0.354	1.294	10.804	72.222	4.25	0.053	0.004	0.033	100.000
1.75	0.297	1.534	12.808	85.030					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	41.638	54.630	3.699	0.033	0.000
Unified Classification	0.000	0.000	61.418	38.541	0.042	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.12	0.57	-0.11	3.47
Folk Graphic Measures (PHI)	1.11	1.14	0.57	0.01	1.00
Grain Size (mm)	0.46	0.46			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 50 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 12.712 Final Weight : 12.664 Deviation : 0.378 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.327	10.479	96.218
-0.50	1.414	0.062	0.490	0.490	2.25	0.210	0.242	1.911	98.129
-0.25	1.189	0.147	1.161	1.650	2.50	0.177	0.151	1.192	99.321
0.00	1.000	0.277	2.187	3.838	2.75	0.149	0.043	0.140	99.660
0.25	0.841	0.597	4.714	8.552	3.00	0.125	0.020	0.158	99.818
0.50	0.707	0.792	6.254	14.806	3.25	0.105	0.012	0.095	99.913
0.75	0.595	1.229	9.705	24.510	3.50	0.088	0.005	0.039	99.953
1.00	0.500	2.542	20.073	44.583	3.75	0.074	0.003	0.024	99.976
1.25	0.420	2.393	18.896	63.479	4.00	0.063	0.000	0.000	99.976
1.50	0.354	1.313	10.368	73.847	4.25	0.053	0.003	0.024	100.000
1.75	0.297	1.506	11.892	85.739					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	44.583	51.635	3.759
Unified Classification	0.000	0.000	63.479	36.497

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.09	0.59	-0.07	3.32
Folk Graphic Measures (PHI)	1.07	1.11	0.58	0.01	1.02
Grain Size (mm)	0.48	0.47			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 75 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 12.025 Final Weight : 12.087 Deviation : 0.516 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.061	8.778	96.782
-0.50	1.414	0.054	0.447	0.447	2.25	0.210	0.161	1.332	98.114
-0.25	1.189	0.093	0.769	1.216	2.50	0.177	0.087	0.720	98.833
0.00	1.000	0.218	1.804	3.020	2.75	0.149	0.109	0.902	99.735
0.25	0.841	0.536	4.435	7.454	3.00	0.125	0.012	0.099	99.835
0.50	0.707	0.718	5.940	13.395	3.25	0.105	0.010	0.083	99.917
0.75	0.595	1.260	10.424	23.819	3.50	0.088	0.003	0.025	99.942
1.00	0.500	2.663	22.032	45.851	3.75	0.074	0.003	0.025	99.967
1.25	0.420	2.398	19.839	65.690	4.00	0.063	0.004	0.033	100.000
1.50	0.354	1.341	11.095	76.785	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.356	11.219	88.004					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	45.851	50.931	3.218
Unified Classification	0.000	0.000	65.690	34.276

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.08	0.56	0.05	3.64
Folk Graphic Measures (PHI)	1.05	1.09	0.55	0.04	1.08
Grain Size (mm)	0.48	0.47			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 100 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM

X Position : 30103.81 Y Position : 87127.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 12.021 Final Weight : 11.990 Deviation : 0.258 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.194	9.958	96.822
-0.50	1.414	0.055	0.459	0.459	2.25	0.210	0.201	1.676	98.499
-0.25	1.189	0.111	0.926	1.384	2.50	0.177	0.114	0.951	99.450
0.00	1.000	0.239	1.993	3.378	2.75	0.149	0.029	0.242	99.691
0.25	0.841	0.547	4.562	7.940	3.00	0.125	0.015	0.125	99.817
0.50	0.707	0.681	5.680	13.620	3.25	0.105	0.011	0.092	99.908
0.75	0.595	1.186	9.892	23.511	3.50	0.088	0.006	0.050	99.958
1.00	0.500	2.503	20.876	44.387	3.75	0.074	0.001	0.008	99.967
1.25	0.420	2.323	19.374	63.761	4.00	0.063	0.003	0.025	99.992
1.50	0.354	1.333	11.118	74.879	4.25	0.053	0.001	0.008	100.000
1.75	0.297	1.437	11.985	86.864					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	44.387	52.435	3.169	0.008	0.000
Unified Classification	0.000	0.000	63.761	36.205	0.033	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.09	0.57	-0.08	3.44
Folk Graphic Measures (PHI)	1.07	1.11	0.57	0.02	1.04
Grain Size (mm)	0.48	0.47			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 125 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM

X Position : 30103.81 Y Position : 87127.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.114 Final Weight : 12.078 Deviation : 0.297 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.027	8.503	97.458
-0.50	1.414	0.033	0.273	0.273	2.25	0.210	0.164	1.358	98.816
-0.25	1.189	0.112	0.927	1.201	2.50	0.177	0.090	0.745	99.561
0.00	1.000	0.241	1.995	3.196	2.75	0.149	0.024	0.199	99.760
0.25	0.841	0.534	4.421	7.617	3.00	0.125	0.011	0.091	99.851
0.50	0.707	0.798	6.607	14.224	3.25	0.105	0.008	0.066	99.917
0.75	0.595	1.335	11.053	25.277	3.50	0.088	0.005	0.041	99.959
1.00	0.500	2.708	22.421	47.698	3.75	0.074	0.003	0.025	99.983
1.25	0.420	2.401	19.879	67.577	4.00	0.063	0.002	0.017	100.000
1.50	0.354	1.256	10.399	77.976	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.326	10.979	88.955					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	47.698	49.760	2.542	0.000	0.000
Unified Classification	0.000	0.000	67.577	32.406	0.017	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.05	0.55	0.00	3.44
Folk Graphic Measures (PHI)	1.03	1.07	0.55	0.05	1.09
Grain Size (mm)	0.49	0.48			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 150 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RM  
X Position : 30:03.81 Y Position : 87:27.70  
Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 145cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 11.966 Final Weight : 11.933 Deviation : 0.276 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.261	10.567	96.623
-0.50	1.414	0.034	0.285	0.285	2.25	0.210	0.217	1.818	98.441
-0.25	1.189	0.123	1.031	1.316	2.50	0.177	0.128	1.073	99.514
0.00	1.000	0.256	2.145	3.461	2.75	0.149	0.032	0.268	99.782
0.25	0.841	0.507	4.249	7.710	3.00	0.125	0.012	0.101	99.883
0.50	0.707	0.691	5.791	13.500	3.25	0.105	0.009	0.075	99.958
0.75	0.595	1.164	9.754	23.255	3.50	0.088	0.003	0.025	99.983
1.00	0.500	2.441	20.456	43.711	3.75	0.074	0.000	0.000	99.983
1.25	0.420	2.270	19.023	62.734	4.00	0.063	0.002	0.017	100.000
1.50	0.354	1.321	11.070	73.804	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.462	12.252	86.055					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	43.711	52.912	3.377
Unified Classification	0.000	0.000	62.734	37.250

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.10	0.57	-0.12	3.17
Folk Graphic Measures (PHI)	1.08	1.12	0.57	0.02	1.02
Grain Size (mm)	0.47	0.47			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 175 cm Date 8-19-91 Profile Analysis Date 6-5-93 Analyz SA/RM  
X Position : 30:03.81 Y Position : 87:27.70  
Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 170cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 12.322 Final Weight : 12.311 Deviation : 0.089 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	1.75	0.297	1.276	10.365	88.872
-0.50	1.414	0.088	0.715	0.715	2.00	0.250	1.035	8.407	97.279
-0.25	1.189	0.152	1.235	1.949	2.25	0.210	0.184	1.495	98.773
0.00	1.000	0.412	3.347	5.296	2.50	0.177	0.102	0.829	99.602
0.25	0.841	0.694	5.637	10.933	2.75	0.149	0.030	0.244	99.846
0.50	0.707	0.943	7.660	18.593	3.00	0.125	0.012	0.097	99.943
0.75	0.595	1.455	11.819	30.412	3.25	0.105	0.005	0.041	99.984
1.00	0.500	2.482	20.161	50.573	3.50	0.088	0.002	0.016	100.000
1.25	0.420	2.168	17.610	68.183	3.75	0.074	0.000	0.000	100.000
1.50	0.354	1.271	10.324	78.507	4.00	0.063	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	50.573	46.706	2.721
Unified Classification	0.000	0.000	68.183	31.817

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.00	0.59	-0.11	2.98
Folk Graphic Measures (PHI)	0.99	1.01	0.60	0.01	1.03
Grain Size (mm)	0.50	0.50			

## Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 195 cm Date 8-19-91 Profile Analysis Date 6-6-93 Analyz SA/RH  
 X Position : 30103.81 Y Position : 87127.70  
 Elevation of Top of Core : 68'  
 Length of Core : 462 cm  
 Depth to Top of Sample : 190 cm  
 Depth to Bottom of Sample : 200 cm  
 Comments : Thuy Bul

Start Weight : 12.956 Final Weight : 12.940 Deviation : 0.123 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-----	-----	-----	-----	-----	-----	-----	-----
-0.75	1.682	0.000	0.000	0.000	0.000	2.00	0.250
-0.50	1.414	0.098	0.757	0.098	0.757	2.25	0.210
-0.25	1.189	0.212	1.638	0.310	1.553	2.50	0.177
0.00	1.000	0.282	2.178	0.592	1.835	2.75	0.149
0.25	0.841	0.439	4.378	1.031	2.272	3.00	0.125
0.50	0.707	0.698	5.240	1.729	2.970	3.25	0.105
0.75	0.594	1.005	10.858	2.734	3.975	3.50	0.088
1.00	0.500	2.827	21.847	4.561	5.247	3.75	0.074
1.25	0.420	2.420	18.779	6.981	7.727	4.00	0.063
1.50	0.354	1.269	9.807	7.743	8.996	4.25	0.053
1.75	0.297	1.383	10.688	8.431	9.379		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	coarse	medium	fine			
Wentworth Classification		0.000	49.158	47.875	2.968	0.000	0.000	0.000	
Unified Classification		0.000	0.000	67.937	32.063	0.000	0.000	0.000	

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		1.01	1.05	1.03	0.58	-0.11	0.58	-0.11	0.58	3.30	
Folk Graphic Measures (PHI)		0.50	0.49			0.03		0.03		1.07	
Grain Size (mm)											

## Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 205 cm Date 8-19-91 Profile Analysis Date 6-5-93 Analyz SA/RH  
 X Position : 30103.81 Y Position : 87127.70  
 Elevation of Top of Core : 68'  
 Length of Core : 462 cm  
 Depth to Top of Sample : 200 cm  
 Depth to Bottom of Sample : 210 cm  
 Comments : Thuy Bul

Start Weight : 12.210 Final Weight : 12.181 Deviation : 0.238 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-----	-----	-----	-----	-----	-----	-----	-----
-0.75	1.682	0.000	0.000	0.000	0.000	2.00	0.250
-0.50	1.414	0.043	0.353	0.353	2.866	2.25	0.210
-0.25	1.189	0.158	1.297	1.650	13.716	2.50	0.177
0.00	1.000	0.287	2.356	4.006	32.582	2.75	0.149
0.25	0.841	0.641	5.262	9.269	74.459	3.00	0.125
0.50	0.707	0.690	5.665	14.933	120.124	3.25	0.105
0.75	0.595	1.191	9.778	24.711	199.902	3.50	0.088
1.00	0.500	2.459	20.187	44.898	364.094	3.75	0.074
1.25	0.420	2.128	17.470	62.368	501.564	4.00	0.063
1.50	0.354	1.353	11.107	73.475	585.071	4.25	0.053
1.75	0.297	1.470	12.068	85.543	697.639		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	coarse	medium	fine			
Wentworth Classification		0.000	44.898	51.039	4.047	0.016	0.016	0.000	
Unified Classification		0.000	0.000	62.368	37.600	0.033	0.000	0.000	

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		1.07	1.11	1.09	0.60	-0.02	0.60	-0.02	0.60	3.36	
Folk Graphic Measures (PHI)		0.48	0.47			0.01		0.01		1.02	
Grain Size (mm)											



Offshore Pensacola, FL (PEN-91-05)

Locality Shelf	Type Sand	Sample 225 cm	Date 8-19-91	Profile	Analysis Date 6-5-93	Analys SA/RM
X Position : 30103.81 Y Position : 87127.70						
Elevation of Top of Core : 68'						
Length of Core : 462 cm						
Depth to Top of Sample : 220cm						
Depth to Bottom of Sample : 230 cm						
Comments : Thuy Bul						

Start Weight :		12.061	Final Weight :		12.024	Deviation :		0.307 %
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight
-----	-----	-----	-----	-----	-----	-----	-----	-----
-0.75	1.682	0.000	0.000	0.000	96.515	2.00	0.250	1.090
-0.50	1.414	0.121	1.006	1.006	98.220	2.25	0.210	0.205
-0.25	1.189	0.185	1.539	2.545	99.326	2.50	0.177	0.133
0.00	1.000	0.369	3.069	5.614	99.659	2.75	0.149	0.040
0.25	0.841	0.738	6.138	11.751	99.817	3.00	0.125	0.019
0.50	0.707	0.833	6.928	18.679	99.942	3.25	0.105	0.015
0.75	0.595	1.330	11.061	29.741	99.975	3.50	0.088	0.004
1.00	0.500	2.425	20.168	49.909	100.000	3.75	0.074	0.003
1.25	0.420	2.103	17.490	67.399	100.000	4.00	0.063	0.000
1.50	0.354	1.149	9.556	76.954	100.000	4.25	0.053	0.000
1.75	0.297	1.262	10.496	87.450	100.000			

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine	medium	fine	medium
Wentworth Classification	0.000	49.909	46.607	3.485	0.000	0.000	0.000
Unified Classification	0.000	0.000	67.399	32.601	0.000	0.000	0.000
Standard Statistics :							
		Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		1.00	1.01	0.62	-0.07	3.14	
Folk Graphic Measures (PHI)		0.50	1.02	0.62	0.00	1.02	
Grain Size (mm)							

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf	Type Sand	Sample 250 cm	Date 8-19-91	Profile	Analysis Date 6-5-93	Analys SA/RM
X Position : 30103.81 Y Position : 87127.70						
Elevation of Top of Core : 68'						
Length of Core : 462 cm						
Depth to Top of Sample : 250cm						
Depth to Bottom of Sample : 255 cm						
Comments : Thuy Bul						

Start Weight :		11.943	Final Weight :		11.898	Deviation :		0.377 %
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight
-----	-----	-----	-----	-----	-----	-----	-----	-----
-0.75	1.682	0.000	0.000	0.000	92.402	1.75	0.297	0.994
-0.50	1.414	0.181	1.521	1.521	94.445	2.00	0.250	0.719
-0.25	1.189	0.329	2.765	4.286	96.378	2.25	0.210	0.111
0.00	1.000	0.515	4.328	8.615	98.832	2.50	0.177	0.054
0.25	0.841	0.961	8.077	16.692	99.941	2.75	0.149	0.013
0.50	0.707	0.996	8.371	25.063	99.983	3.00	0.125	0.005
0.75	0.595	1.512	12.708	37.771	100.000	3.25	0.105	0.002
1.00	0.500	2.562	21.533	59.304	100.000	3.50	0.088	0.000
1.25	0.420	1.907	16.028	75.332	100.000	3.75	0.074	0.000
1.50	0.354	1.037	8.716	84.048	100.000			

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine	medium	fine	medium
Wentworth Classification	0.000	59.304	39.141	1.555	0.000	0.000	0.000
Unified Classification	0.000	0.000	75.332	24.668	0.000	0.000	0.000
Standard Statistics :							
		Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		0.89	0.87	0.60	-0.16	2.84	
Folk Graphic Measures (PHI)		0.54	0.87	0.63	-0.06	1.13	
Grain Size (mm)							

Offshore Pensacola, FL (PEN-91-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 275 cm 8-19-91 6-5-91 SA/RM

X Position : 10:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 270cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 12.062 Final Weight : 12.003 Deviation : 0.489 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.75	1.682	0.000	0.000	0.000	1.75	0.297	1.222	10.181	89.153
-0.50	1.414	0.098	0.816	0.816	2.00	0.250	0.995	8.290	97.442
-0.25	1.189	0.265	2.208	3.024	2.25	0.210	0.178	1.483	98.925
0.00	1.000	0.455	3.791	6.815	2.50	0.177	0.091	0.758	99.683
0.25	0.841	0.845	7.040	13.855	2.75	0.149	0.023	0.192	99.875
0.50	0.707	0.932	7.765	21.620	3.00	0.125	0.010	0.083	99.958
0.75	0.595	1.363	11.355	32.975	3.25	0.105	0.005	0.042	100.000
1.00	0.500	2.486	20.711	53.687	3.50	0.088	0.000	0.000	100.000
1.25	0.420	1.880	15.663	69.349	3.75	0.074	0.000	0.000	100.000
1.50	0.354	1.155	9.623	78.972	4.00	0.063	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	53.687	43.756	2.558	0.000	0.000
Unified Classification	0.000	0.000	69.349	30.651	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.96	0.61	-0.13	2.79
Folk Graphic Measures (PHI)	0.96	0.97	0.64	-0.01	1.02
Grain Size (mm)	0.52	0.51			

Offshore Pensacola, FL (PEN-91-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 300 cm 8-19-91 6-5-91 SA/RM

X Position : 10:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 295cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 12.422 Final Weight : 12.369 Deviation : 0.427 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.75	1.682	0.000	0.000	0.000	1.75	0.297	1.093	8.837	91.325
-0.50	1.414	0.441	3.565	3.565	2.00	0.250	0.852	6.888	98.213
-0.25	1.189	0.291	2.353	5.918	2.25	0.210	0.138	1.116	99.329
0.00	1.000	0.542	4.382	10.300	2.50	0.177	0.067	0.542	99.871
0.25	0.841	0.979	7.915	18.215	2.75	0.149	0.012	0.097	99.968
0.50	0.707	0.973	7.866	26.081	3.00	0.125	0.003	0.024	99.992
0.75	0.595	1.457	11.779	37.861	3.25	0.105	0.001	0.008	100.000
1.00	0.500	2.484	20.082	57.943	3.50	0.088	0.000	0.000	100.000
1.25	0.420	1.920	15.523	73.466	3.75	0.074	0.000	0.000	100.000
1.50	0.354	1.116	9.023	82.488	4.00	0.063	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	57.943	40.270	1.787	0.000	0.000
Unified Classification	0.000	0.000	73.466	26.534	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.86	0.65	-0.27	2.77
Folk Graphic Measures (PHI)	0.90	0.87	0.68	-0.09	1.11
Grain Size (mm)	0.54	0.55			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 325 cm Date 8-19-91 Profile Analysis Date 6-5-93 Analyz SA/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 320cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 12.339 Final Weight : 12.305 Deviation : 0.276 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.142	9.281	95.953
-0.50	1.414	0.231	1.877	1.877	2.25	0.210	0.245	1.991	97.944
-0.25	1.189	0.441	3.584	5.461	2.50	0.177	0.158	1.284	99.228
0.00	1.000	0.525	4.267	9.728	2.75	0.149	0.049	0.398	99.626
0.25	0.841	0.949	7.712	17.440	3.00	0.125	0.025	0.203	99.829
0.50	0.707	0.881	7.160	24.600	3.25	0.105	0.015	0.122	99.951
0.75	0.595	1.275	10.362	34.961	3.50	0.088	0.004	0.033	99.984
1.00	0.500	2.170	17.635	52.597	3.75	0.074	0.002	0.016	100.000
1.25	0.420	1.909	15.514	68.111	4.00	0.063	0.000	0.000	100.000
1.50	0.354	1.043	8.476	76.587	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.241	10.085	86.672					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	52.597	43.356	4.047	0.000	0.000
Unified Classification	0.000	0.000	68.111	31.889	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.95	0.69	-0.10	2.75
Folk Graphic Measures (PHI)	0.96	0.95	0.71	-0.07	0.98
Grain Size (mm)	0.51	0.52			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 350 cm Date 8-19-91 Profile Analysis Date 6-5-93 Analyz SA/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 345cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 12.605 Final Weight : 12.576 Deviation : 0.230 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.006	7.999	97.288
-0.50	1.414	0.084	0.668	0.668	2.25	0.210	0.177	1.407	98.696
-0.25	1.189	0.168	1.336	2.004	2.50	0.177	0.106	0.843	99.539
0.00	1.000	0.376	2.990	4.994	2.75	0.149	0.031	0.247	99.785
0.25	0.841	0.870	6.918	11.912	3.00	0.125	0.015	0.119	99.905
0.50	0.707	1.022	8.127	20.038	3.25	0.105	0.008	0.064	99.968
0.75	0.595	1.510	12.007	32.045	3.50	0.088	0.002	0.016	99.984
1.00	0.500	2.668	21.215	53.260	3.75	0.074	0.002	0.016	100.000
1.25	0.420	2.009	15.975	69.235	4.00	0.063	0.000	0.000	100.000
1.50	0.354	1.259	10.011	79.246	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.263	10.043	89.289					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	53.260	44.028	2.712	0.000	0.000
Unified Classification	0.000	0.000	69.235	30.765	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.98	0.59	-0.01	3.00
Folk Graphic Measures (PHI)	0.96	0.99	0.60	0.03	1.00
Grain Size (mm)	0.51	0.51			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 375 cm Date 8-19-91 Profile Analysis Date 6-5-93 Analyz SA/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 370cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 12.114 Final Weight : 12.081 Deviation : 0.272 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.293	10.703	94.860
-0.50	1.414	0.101	0.836	0.836	2.25	0.210	0.267	2.210	97.070
-0.25	1.189	0.184	1.523	2.359	2.50	0.177	0.187	1.548	98.618
0.00	1.000	0.340	2.814	5.173	2.75	0.149	0.065	0.538	99.156
0.25	0.841	0.644	5.331	10.504	3.00	0.125	0.041	0.339	99.495
0.50	0.707	0.793	6.564	17.068	3.25	0.105	0.030	0.248	99.743
0.75	0.595	1.180	9.767	26.836	3.50	0.088	0.011	0.091	99.834
1.00	0.500	2.245	18.583	45.418	3.75	0.074	0.007	0.058	99.892
1.25	0.420	2.104	17.416	62.834	4.00	0.063	0.005	0.041	99.934
1.50	0.354	1.188	9.834	72.668	4.25	0.053	0.008	0.066	100.000
1.75	0.297	1.388	11.489	84.157					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	45.418	49.441	5.074	0.066	0.000
Unified Classification	0.000	0.000	62.834	37.058	0.108	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.08	0.65	0.07	3.57
Folk Graphic Measures (PHI)	1.07	1.09	0.63	-0.00	0.98
Grain Size (mm)	0.48	0.47			

Offshore Pensacola, FL (PEN-91-05)

Locality Shelf Type Sand Sample 400 cm Date 8-19-91 Profile Analysis Date 6-4-93 Analyz SA/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 395cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bul

Start Weight : 11.801 Final Weight : 11.753 Deviation : 0.407 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	0.977	8.313	97.856
-0.50	1.414	0.082	0.698	0.698	2.25	0.210	0.154	1.310	99.166
-0.25	1.189	0.147	1.251	1.948	2.50	0.177	0.075	0.638	99.804
0.00	1.000	0.291	2.476	4.424	2.75	0.149	0.015	0.128	99.932
0.25	0.841	0.637	5.420	9.844	3.00	0.125	0.006	0.051	99.983
0.50	0.707	0.785	6.679	16.523	3.25	0.105	0.002	0.017	100.000
0.75	0.595	1.326	11.282	27.806	3.50	0.088	0.000	0.000	100.000
1.00	0.500	2.617	22.267	50.072	3.75	0.074	0.000	0.000	100.000
1.25	0.420	2.241	19.067	69.140	4.00	0.063	0.000	0.000	100.000
1.50	0.354	1.161	9.878	79.018	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.237	10.525	89.543					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	50.072	47.784	2.144	0.000	0.000
Unified Classification	0.000	0.000	69.140	30.860	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.01	0.56	-0.19	3.07
Folk Graphic Measures (PHI)	1.00	1.03	0.57	0.03	1.09
Grain Size (mm)	0.50	0.50			

Offshore Pensacola, FL (PEN-91-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 425 cm 8-19-91 8A/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 420cm  
Depth to Bottom of Sample : 430 cm

Comments : Thuy Bui

Start Weight : 11.951 Final Weight : 12.203 Deviation : 2.109 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.125	9.219	96.730
-0.50	1.414	0.082	0.672	0.672	2.25	0.210	0.203	1.664	98.394
-0.25	1.189	0.117	0.959	1.631	2.50	0.177	0.126	1.033	99.426
0.00	1.000	0.341	2.794	4.425	2.75	0.149	0.040	0.328	99.754
0.25	0.841	0.945	7.744	12.169	3.00	0.125	0.019	0.156	99.910
0.50	0.707	0.759	6.220	18.389	3.25	0.105	0.009	0.074	99.984
0.75	0.595	1.233	10.104	28.493	3.50	0.088	0.002	0.016	100.000
1.00	0.500	2.413	19.774	48.267	3.75	0.074	0.000	0.000	100.000
1.25	0.420	2.137	17.512	65.779	4.00	0.063	0.000	0.000	100.000
1.50	0.354	1.297	10.629	76.407	4.25	0.053	0.000	0.000	100.000
1.75	0.297	1.355	11.104	87.511	4.50	0.044	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	48.267	48.463	3.270
Unified Classification	0.000	0.000	65.779	34.221

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.03	0.60	-0.09	2.92
Folk Graphic Measures (PHI)	1.02	1.03	0.61	-0.01	0.99
Grain Size (mm)	0.49	0.49			

Offshore Pensacola, FL (PEN-91-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 450 cm 8-19-91 8A/RM

X Position : 30:03.81 Y Position : 87:27.70

Elevation of Top of Core : 68'  
Length of Core : 462 cm  
Depth to Top of Sample : 445cm  
Depth to Bottom of Sample : 455 cm

Comments : Thuy Bui

Start Weight : 12.142 Final Weight : 12.141 Deviation : 0.008 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	0.860	7.083	97.274
-0.50	1.414	0.058	0.478	0.478	2.25	0.210	0.167	1.376	98.649
-0.25	1.189	0.172	1.417	1.894	2.50	0.177	0.098	0.807	99.456
0.00	1.000	0.438	3.608	5.502	2.75	0.149	0.032	0.264	99.720
0.25	0.841	0.913	7.520	13.022	3.00	0.125	0.012	0.099	99.819
0.50	0.707	1.035	8.525	21.547	3.25	0.105	0.010	0.082	99.901
0.75	0.595	1.490	12.272	33.819	3.50	0.088	0.006	0.049	99.951
1.00	0.500	2.612	21.514	55.333	3.75	0.074	0.003	0.025	99.975
1.25	0.420	2.153	17.733	73.066	4.00	0.063	0.002	0.016	99.992
1.50	0.354	1.037	8.541	81.608	4.25	0.053	0.000	0.000	99.992
1.75	0.297	1.042	8.582	90.190	4.50	0.044	0.001	0.008	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	55.333	41.941	2.718
Unified Classification	0.000	0.000	73.066	26.909

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.95	0.59	0.13	3.31
Folk Graphic Measures (PHI)	0.94	0.95	0.60	0.01	1.09
Grain Size (mm)	0.52	0.52			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 5 cm Date 8-20-91 Profile Analysis Date 5-3-93 Analyz TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 11.330 Final Weight : 11.159 Deviation : 1.509 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.105	9.902	81.145
0.50	0.707	0.087	0.780	0.780	2.75	0.149	0.565	5.063	86.208
0.75	0.595	0.287	2.572	3.352	3.00	0.125	0.139	3.038	89.246
1.00	0.500	0.929	8.325	11.677	3.25	0.105	0.275	2.464	91.711
1.25	0.420	1.152	10.324	22.000	3.50	0.088	0.139	1.246	92.956
1.50	0.354	1.015	9.096	31.096	3.75	0.074	0.125	1.120	94.077
1.75	0.297	1.349	12.089	43.185	4.00	0.063	0.101	0.905	94.982
2.00	0.250	2.242	20.091	63.276	4.25	0.053	0.560	5.018	100.000
2.25	0.210	0.689	7.967	71.243					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	11.677	51.600	31.705	5.018	0.000
Unified Classification	0.000	0.000	22.000	72.076	5.923	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.93	0.84	0.88	3.62
Folk Graphic Measures (PHI)	1.83	1.86	0.87	0.20	1.30
Grain Size (mm)	0.28	0.26			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 25 cm Date 8-20-91 Profile Analysis Date 5-4-93 Analyz TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 11.413 Final Weight : 11.374 Deviation : 0.342 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.856	7.526	91.340
0.50	0.707	0.435	3.825	3.825	2.75	0.149	0.375	3.297	94.637
0.75	0.595	0.684	6.014	9.838	3.00	0.125	0.196	1.723	96.360
1.00	0.500	1.422	12.502	22.340	3.25	0.105	0.133	1.169	97.529
1.25	0.420	1.522	13.381	35.722	3.50	0.088	0.058	0.510	98.039
1.50	0.354	1.134	9.970	45.692	3.75	0.074	0.050	0.440	98.479
1.75	0.297	1.376	12.098	57.790	4.00	0.063	0.037	0.325	98.804
2.00	0.250	2.098	18.446	76.235	4.25	0.053	0.136	1.196	100.000
2.25	0.210	0.862	7.579	83.814					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	22.340	53.895	22.569	1.196	0.000
Unified Classification	0.000	0.000	35.722	62.757	1.521	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.60	0.72	0.74	4.03
Folk Graphic Measures (PHI)	1.59	1.57	0.69	0.02	0.99
Grain Size (mm)	0.33	0.33			

Offshore Pensacola, FL (PEN-91-06)

Locality Type Sample Date Profile Analysis Data Analyz  
Shelf Sand 50 cm 8-20-91 5-4-93 TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 11.320 Final Weight : 11.278 Deviation : 0.371 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.815	7.226	91.745
0.50	0.707	0.355	3.148	3.148	2.75	0.149	0.361	3.201	94.946
0.75	0.595	0.589	5.223	8.370	3.00	0.125	0.195	1.729	96.675
1.00	0.500	1.463	12.972	21.342	3.25	0.105	0.130	1.153	97.828
1.25	0.420	1.674	14.843	36.185	3.50	0.088	0.052	0.461	98.289
1.50	0.354	1.225	10.862	47.047	3.75	0.074	0.047	0.417	98.705
1.75	0.297	1.385	12.281	59.328	4.00	0.063	0.031	0.275	98.980
2.00	0.250	2.015	17.867	77.195	4.25	0.053	0.115	1.020	100.000
2.25	0.210	0.826	7.324	84.519					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	21.342	55.852	21.786	1.020	0.000
Unified Classification	0.000	0.000	36.185	62.520	1.295	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.59	0.69	0.78	4.13
Folk Graphic Measures (PHI)	1.56	1.56	0.66	0.06	0.98
Grain Size (mm)	0.34	0.33			

Offshore Pensacola, FL (PEN-91-06)

Locality Type Sample Date Profile Analysis Data Analyz  
Shelf Sand 75 cm 8-20-91 5-4-93 TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 11.230 Final Weight : 11.203 Deviation : 0.240 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.982	8.766	91.261
0.50	0.707	0.304	2.714	2.714	2.75	0.149	0.427	3.811	95.073
0.75	0.595	0.479	4.276	6.989	3.00	0.125	0.222	1.982	97.054
1.00	0.500	1.158	10.337	17.326	3.25	0.105	0.125	1.116	98.170
1.25	0.420	1.469	13.113	30.438	3.50	0.088	0.046	0.411	98.581
1.50	0.354	1.200	10.711	41.150	3.75	0.074	0.037	0.330	98.911
1.75	0.297	1.470	13.121	54.271	4.00	0.063	0.024	0.214	99.125
2.00	0.250	2.314	20.655	74.926	4.25	0.053	0.098	0.875	100.000
2.25	0.210	0.848	7.569	82.496					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	17.326	57.601	24.199	0.875	0.000
Unified Classification	0.000	0.000	30.438	68.473	1.089	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.65	0.67	0.59	3.94
Folk Graphic Measures (PHI)	1.67	1.64	0.65	-0.02	1.01
Grain Size (mm)	0.31	0.32			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 5-4-93 Analyz TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.343 Final Weight : 11.305 Deviation : 0.335 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.041	9.208	90.951
0.50	0.707	0.349	3.087	3.087	2.75	0.149	0.475	4.202	95.153
0.75	0.595	0.611	5.405	8.492	3.00	0.125	0.244	2.158	97.311
1.00	0.500	1.360	12.030	20.522	3.25	0.105	0.133	1.176	98.487
1.25	0.420	1.519	13.437	33.958	3.50	0.088	0.044	0.389	98.877
1.50	0.354	1.121	9.916	43.874	3.75	0.074	0.035	0.310	99.186
1.75	0.297	1.320	11.676	55.551	4.00	0.063	0.020	0.177	99.363
2.00	0.250	2.084	18.434	73.985	4.25	0.053	0.072	0.637	100.000
2.25	0.210	0.877	7.758	81.743					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	20.522	53.463	25.378	0.637	0.000
Unified Classification	0.000	0.000	33.958	65.228	0.814	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.62	0.68	0.50	3.41
Folk Graphic Measures (PHI)	1.63	1.62	0.68	-0.00	0.93
Grain Size (mm)	0.32	0.32			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 125 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analyz TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 11.266 Final Weight : 11.249 Deviation : 0.151 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.914	8.125	93.199
0.50	0.707	0.541	4.809	4.809	2.75	0.149	0.399	3.547	96.746
0.75	0.595	0.671	5.965	10.774	3.00	0.125	0.194	1.725	98.471
1.00	0.500	1.519	13.503	24.278	3.25	0.105	0.090	0.800	99.271
1.25	0.420	1.589	14.126	38.403	3.50	0.088	0.025	0.222	99.493
1.50	0.354	1.109	9.859	48.262	3.75	0.074	0.015	0.133	99.627
1.75	0.297	1.296	11.521	59.783	4.00	0.063	0.009	0.080	99.707
2.00	0.250	1.995	17.715	77.518	4.25	0.053	0.033	0.293	100.000
2.25	0.210	0.850	7.556	85.074					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	24.278	53.240	22.189	0.293	0.000
Unified Classification	0.000	0.000	38.403	61.223	0.373	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.54	0.66	0.37	3.03
Folk Graphic Measures (PHI)	1.54	1.53	0.66	0.01	0.91
Grain Size (mm)	0.34	0.34			



Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 150 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analyz TC/RH

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 11.235 Final Weight : 11.233 Deviation : 0.018 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.161	10.336	89.380
0.50	0.707	0.555	4.941	4.941	2.75	0.149	0.581	5.172	94.552
0.75	0.595	0.664	5.911	10.852	3.00	0.125	0.309	2.751	97.303
1.00	0.500	1.288	11.466	22.318	3.25	0.105	0.164	1.460	98.763
1.25	0.420	1.306	11.626	33.945	3.50	0.088	0.046	0.410	99.172
1.50	0.354	0.929	8.270	42.215	3.75	0.074	0.030	0.267	99.439
1.75	0.297	1.171	10.425	52.640	4.00	0.063	0.017	0.151	99.590
2.00	0.250	2.076	18.481	71.121	4.25	0.053	0.046	0.410	100.000
2.25	0.210	0.890	7.923	79.044					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	22.318	48.803	28.470	0.410	0.000
Unified Classification	0.000	0.000	33.945	65.495	0.561	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.64	0.71	0.27	2.82
Folk Graphic Measures (PHI)	1.69	1.64	0.72	-0.06	0.88
Grain Size (mm)	0.31	0.32			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 175 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analyz TC/RH

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.144 Final Weight : 11.098 Deviation : 0.413 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.370	12.345	86.853
0.50	0.707	0.215	1.937	1.937	2.75	0.149	0.679	6.118	92.972
0.75	0.595	0.420	3.784	5.722	3.00	0.125	0.358	3.226	96.198
1.00	0.500	0.911	8.227	13.948	3.25	0.105	0.200	1.802	98.000
1.25	0.420	1.125	10.137	24.085	3.50	0.088	0.061	0.550	98.549
1.50	0.354	0.951	8.569	32.655	3.75	0.074	0.045	0.405	98.955
1.75	0.297	1.271	11.453	44.107	4.00	0.063	0.026	0.234	99.189
2.00	0.250	2.325	20.950	65.057	4.25	0.053	0.090	0.811	100.000
2.25	0.210	1.049	9.452	74.509					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	13.948	51.108	34.132	0.811	0.000
Unified Classification	0.000	0.000	24.085	74.869	1.045	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.79	0.69	0.31	3.34
Folk Graphic Measures (PHI)	1.82	1.77	0.68	-0.06	0.92
Grain Size (mm)	0.28	0.29			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 200 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analyst TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.276 Final Weight : 11.271 Deviation : 0.044 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.982	8.713	93.168
0.50	0.707	0.356	3.159	3.159	2.75	0.149	0.421	3.735	96.904
0.75	0.595	0.604	5.359	8.517	3.00	0.125	0.185	1.641	98.545
1.00	0.500	1.375	12.199	20.717	3.25	0.105	0.087	0.772	99.317
1.25	0.420	1.553	13.779	34.496	3.50	0.088	0.022	0.195	99.512
1.50	0.354	1.152	10.221	44.717	3.75	0.074	0.018	0.160	99.672
1.75	0.297	1.399	12.412	57.129	4.00	0.063	0.010	0.089	99.760
2.00	0.250	2.205	19.563	76.692	4.25	0.053	0.027	0.240	100.000
2.25	0.210	0.875	7.763	84.456					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	20.717	55.976	23.068	0.240	0.000
Unified Classification	0.000	0.000	34.496	65.176	0.128	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.58	0.64	0.32	3.06
Folk Graphic Measures (PHI)	1.61	1.58	0.64	-0.03	0.93
Grain Size (mm)	0.33	0.33			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 400 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analyst TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bui

Start Weight : 11.270 Final Weight : 11.234 Deviation : 0.319 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.008	8.973	91.508
0.50	0.707	0.544	4.842	4.842	2.75	0.149	0.435	3.872	95.380
0.75	0.595	0.725	6.454	11.296	3.00	0.125	0.212	1.887	97.267
1.00	0.500	1.279	11.385	22.681	3.25	0.105	0.115	1.024	98.291
1.25	0.420	1.328	11.821	34.502	3.50	0.088	0.039	0.347	98.638
1.50	0.354	1.052	9.364	43.867	3.75	0.074	0.031	0.276	98.914
1.75	0.297	1.330	11.839	55.706	4.00	0.063	0.022	0.196	99.110
2.00	0.250	2.135	19.005	74.711	4.25	0.053	0.100	0.890	100.000
2.25	0.210	0.879	7.824	82.535					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	22.681	52.030	24.399	0.890	0.000
Unified Classification	0.000	0.000	34.502	64.412	1.086	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.60	0.71	0.49	3.55
Folk Graphic Measures (PHI)	1.63	1.59	0.70	-0.05	0.95
Grain Size (mm)	0.32	0.33			

Offshore Pensacola, FL (PEN-91-06)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 425 cm 8-20-91 5-5-93 TC/RH

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 420 cm  
Depth to Bottom of Sample : 430 cm

Comments : Thuy Bul

Start Weight : 11.463 Final Weight : 11.382 Deviation : 0.707 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.470	4.129	92.189
0.00	1.000	0.163	3.189	3.189	2.50	0.177	0.467	4.103	96.292
0.25	0.841	0.632	5.553	8.742	2.75	0.149	0.177	1.555	97.847
0.50	0.707	0.907	7.969	16.711	3.00	0.125	0.088	0.773	98.621
0.75	0.595	1.241	10.903	27.614	3.25	0.105	0.048	0.422	99.042
1.00	0.500	1.990	17.484	45.098	3.50	0.088	0.017	0.149	99.192
1.25	0.420	1.534	13.477	58.575	3.75	0.074	0.012	0.105	99.297
1.50	0.354	0.985	8.654	67.229	4.00	0.063	0.012	0.105	99.403
1.75	0.297	1.012	9.067	76.296	4.25	0.053	0.068	0.597	100.000
2.00	0.250	1.339	11.764	88.060					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	45.098	42.963	11.342
Unified Classification	0.000	0.000	58.575	40.722

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.19	0.73	0.65	3.88
Folk Graphic Measures (PHI)	1.09	1.16	0.71	0.14	0.94
Grain Size (mm)	0.47	0.44			

Offshore Pensacola, FL (PEN-91-06)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 450 cm 8-20-91 5-5-93 TC/RH

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 445 cm  
Depth to Bottom of Sample : 455 cm

Comments : Thuy Bul

Start Weight : 11.616 Final Weight : 11.566 Deviation : 0.430 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.861	7.444	83.944
0.00	1.000	0.114	0.986	0.986	2.50	0.177	0.978	8.456	92.400
0.25	0.841	0.298	2.577	3.562	2.75	0.149	0.398	3.441	95.841
0.50	0.707	0.375	3.242	6.804	3.00	0.125	0.199	1.721	97.562
0.75	0.595	0.589	5.093	11.897	3.25	0.105	0.108	0.934	98.496
1.00	0.500	1.294	11.188	23.085	3.50	0.088	0.034	0.294	98.790
1.25	0.420	1.460	12.623	35.708	3.75	0.074	0.027	0.233	99.023
1.50	0.354	1.126	9.735	45.444	4.00	0.063	0.020	0.173	99.196
1.75	0.297	1.423	12.303	57.747	4.25	0.053	0.093	0.804	100.000
2.00	0.250	2.169	18.753	76.500					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	23.085	53.415	22.696
Unified Classification	0.000	0.000	35.708	63.315

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.56	0.72	0.30	3.62
Folk Graphic Measures (PHI)	1.59	1.56	0.71	-0.06	1.01
Grain Size (mm)	0.33	0.34			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
475 cm 8-20-91 5-5-93 TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 470 cm  
Depth to Bottom of Sample : 480 cm

Comments : Thuy Bui

Start Weight : 11.288 Final Weight : 11.213 Deviation : 0.664 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.790	7.045	78.908
0.00	1.000	0.354	3.157	3.157	2.50	0.177	0.908	8.098	87.006
0.25	0.841	0.521	4.646	7.803	2.75	0.149	0.467	4.165	91.171
0.50	0.707	0.481	4.290	12.093	3.00	0.125	0.268	2.390	93.561
0.75	0.595	0.580	5.173	17.266	3.25	0.105	0.178	1.587	95.148
1.00	0.500	1.231	10.978	28.244	3.50	0.088	0.077	0.687	95.835
1.25	0.420	1.198	10.684	38.928	3.75	0.074	0.072	0.642	96.477
1.50	0.354	0.906	8.080	47.008	4.00	0.063	0.061	0.544	97.021
1.75	0.297	1.086	9.685	56.693	4.25	0.053	0.334	2.979	100.000
2.00	0.250	1.701	15.170	71.863					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	28.244	43.619	25.158	2.979	0.000
Unified Classification	0.000	0.000	38.928	57.549	3.523	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.58	0.93	0.50	3.15
Folk Graphic Measures (PHI)	1.58	1.56	0.90	0.01	1.08
Grain Size (mm)	0.34	0.33			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
500 cm 8-20-91 5-5-93 TC/RM

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 495 cm  
Depth to Bottom of Sample : 505 cm

Comments : Thuy Bui

Start Weight : 11.196 Final Weight : 11.135 Deviation : 0.545 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.759	6.816	80.521
0.00	1.000	0.272	2.443	2.443	2.50	0.177	0.864	7.759	88.280
0.25	0.841	0.459	4.122	6.565	2.75	0.149	0.427	3.835	92.115
0.50	0.707	0.430	3.862	10.427	3.00	0.125	0.243	2.182	94.297
0.75	0.595	0.627	5.631	16.057	3.25	0.105	0.162	1.455	95.752
1.00	0.500	1.288	11.567	27.625	3.50	0.088	0.079	0.709	96.462
1.25	0.420	1.303	11.702	39.326	3.75	0.074	0.065	0.584	97.045
1.50	0.354	0.966	8.675	48.002	4.00	0.063	0.055	0.494	97.539
1.75	0.297	1.132	10.166	58.168	4.25	0.053	0.274	2.461	100.000
2.00	0.250	1.730	15.537	73.705					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	27.625	46.080	23.835	2.461	0.000
Unified Classification	0.000	0.000	39.326	57.719	2.955	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.56	0.88	0.54	3.53
Folk Graphic Measures (PHI)	1.55	1.55	0.85	0.03	1.10
Grain Size (mm)	0.34	0.34			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 525 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analysis TC/RH

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 520 cm  
Depth to Bottom of Sample : 530 cm

Comments : Thuy Bul

Start Weight : 11.485 Final Weight : 11.445 Deviation : 0.348 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.593	5.181	91.402
0.00	1.000	0.482	4.211	4.211	2.50	0.177	0.583	5.094	96.496
0.25	0.841	0.795	6.946	11.158	2.75	0.149	0.208	1.817	98.314
0.50	0.707	0.684	5.976	17.134	3.00	0.125	0.088	0.769	99.083
0.75	0.595	0.964	8.423	25.557	3.25	0.105	0.041	0.358	99.441
1.00	0.500	1.600	13.980	39.537	3.50	0.088	0.012	0.105	99.546
1.25	0.420	1.503	13.132	52.669	3.75	0.074	0.008	0.070	99.616
1.50	0.354	1.035	9.043	61.713	4.00	0.063	0.007	0.061	99.677
1.75	0.297	1.191	10.406	72.119	4.25	0.053	0.037	0.323	100.000
2.00	0.250	1.614	14.102	86.221					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	39.537	46.684	13.456	0.323	0.000
Unified Classification	0.000	0.000	52.669	46.946	0.384	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.24	0.74	0.24	3.00
Folk Graphic Measures (PHI)	1.20	1.20	0.74	0.02	0.92
Grain Size (mm)	0.44	0.42			

Offshore Pensacola, FL (PEN-91-06)

Locality Shelf Type Sand Sample 550 cm Date 8-20-91 Profile Analysis Date 5-5-93 Analysis TC/RH

X Position : 30:08.53 Y Position : 87:15.11

Elevation of Top of Core : 92'  
Length of Core : 560 cm  
Depth to Top of Sample : 545 cm  
Depth to Bottom of Sample : 555 cm

Comments : Thuy Bul

Start Weight : 13.385 Final Weight : 13.316 Deviation : 0.516 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.062	7.975	73.596
-0.75	1.682	0.251	1.885	1.885	2.00	0.250	1.582	11.880	85.476
-0.50	1.414	0.569	4.273	6.158	2.25	0.210	0.663	4.979	90.455
-0.25	1.189	0.554	4.160	10.318	2.50	0.177	0.682	5.122	95.577
0.00	1.000	0.759	5.700	16.018	2.75	0.149	0.264	1.983	97.559
0.25	0.841	1.000	7.510	23.528	3.00	0.125	0.121	0.909	98.468
0.50	0.707	0.860	6.458	29.986	3.25	0.105	0.077	0.578	99.046
0.75	0.595	1.026	7.705	37.691	3.50	0.088	0.027	0.201	99.249
1.00	0.500	1.533	11.512	49.204	3.75	0.074	0.020	0.150	99.399
1.25	0.420	1.277	9.590	58.794	4.00	0.063	0.015	0.113	99.512
1.50	0.354	0.909	6.826	65.620	4.25	0.053	0.065	0.488	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	49.204	36.272	14.036	0.488	0.000
Unified Classification	0.000	0.000	58.794	40.605	0.601	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.03	0.95	0.10	2.68
Folk Graphic Measures (PHI)	1.02	1.00	0.95	-0.04	0.85
Grain Size (mm)	0.49	0.49			



## Offshore Pensacola, FL (PEN-91-08)

## Offshore Pensacola, FL (PEN-91-08)

Locality Shelf Type Sand Sample 10 cm Date 8-20-91 Profile Analysis Date Analyz 9-11-92 TC/RH  
 X Position : 30:01.38 Y Position : 87:08.67  
 Elevation of Top of Core : 110'  
 Length of Core : 281 cm  
 Depth to Top of Sample : 5 cm  
 Depth to Bottom of Sample : 15 cm

Comments : Thuy Bul

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent	Deviation	0.216 %
-0.25	1.189	0.000	0.000	0.000	0.000	2.25	0.210	1.390	8.934	80.178			
0.00	1.000	0.000	0.000	0.000	0.000	2.50	0.177	1.989	13.669	92.847			
0.25	0.841	0.004	0.025	0.025	0.025	2.75	0.149	0.797	5.076	97.924			
0.50	0.707	0.015	0.096	0.121	0.121	3.00	0.125	0.246	1.567	99.490			
0.75	0.595	0.509	3.242	3.363	3.363	3.25	0.105	0.059	0.376	99.866			
1.00	0.500	1.270	8.089	11.452	11.452	3.50	0.088	0.010	0.064	99.930			
1.25	0.430	1.831	11.599	23.051	23.051	3.75	0.074	0.005	0.032	99.962			
1.50	0.354	1.591	10.146	33.197	33.197	4.00	0.063	0.003	0.019	99.981			
1.75	0.297	2.522	16.064	49.261	49.261	4.25	0.053	0.003	0.019	100.000			
2.00	0.250	3.464	22.064	71.325	71.325								

Sample Content by Weight Percent :

Gravel	coarse	medium	fine	Silt	Clay
0.000	11.452	59.873	28.656	0.019	0.000
0.000	0.000	23.051	76.911	0.038	0.000
Standard Statistics :					
Median	Mean	Dev.	Skew	Kurt	
1.76	1.73	0.58	-0.07	0.92	
Method of Moments (PHI)					
Folk Graphic Measures (PHI)					
Grain Size (mm)					

Comments : Thuy Bul

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent	Deviation	0.121 %
-0.25	1.189	0.000	0.000	0.000	0.000	2.25	0.210	1.340	8.563	79.436			
0.00	1.000	0.161	1.029	1.029	1.029	2.50	0.177	1.944	12.423	91.859			
0.25	0.841	0.195	1.246	2.275	2.275	2.75	0.149	0.824	5.266	97.124			
0.50	0.707	0.200	1.278	3.553	3.553	3.00	0.125	0.298	1.904	99.029			
0.75	0.595	0.471	3.010	6.563	6.563	3.25	0.105	0.101	0.645	99.674			
1.00	0.500	1.112	7.106	13.669	13.669	3.50	0.088	0.017	0.109	99.783			
1.25	0.430	1.594	10.186	23.855	23.855	3.75	0.074	0.026	0.166	99.949			
1.50	0.354	1.597	9.950	33.804	33.804	4.00	0.063	0.005	0.032	99.981			
1.75	0.297	2.371	15.151	48.955	48.955	4.25	0.053	0.003	0.019	100.000			
2.00	0.250	3.430	21.918	70.874	70.874								

Sample Content by Weight Percent :

Gravel	coarse	medium	fine	Silt	Clay
0.000	13.669	57.205	29.107	0.019	0.000
0.000	0.000	23.895	76.094	0.051	0.000
Standard Statistics :					
Median	Mean	Dev.	Skew	Kurt	
1.76	1.72	0.63	-0.31	3.21	
Method of Moments (PHI)					
Folk Graphic Measures (PHI)					
Grain Size (mm)					

Offshore Pensacola, FL (PEN-91-08)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 5-12-92 Analyz TC/RM  
X Position : 30:01.38 Y Position : 87:08.67  
Elevation of Top of Core : 110'  
Length of Core : 281 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 15.650 Final Weight : 15.634 Deviation : 0.102 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	1.659	10.611	93.955
0.75	0.595	0.317	2.028	2.028	2.75	0.149	0.629	4.023	97.979
1.00	0.500	1.482	9.479	11.507	3.00	0.125	0.211	1.350	99.328
1.25	0.420	2.032	12.997	24.504	3.25	0.105	0.072	0.461	99.789
1.50	0.354	1.800	11.513	36.018	3.50	0.088	0.013	0.083	99.872
1.75	0.297	2.463	15.754	51.772	3.75	0.074	0.005	0.032	99.904
2.00	0.250	3.616	23.129	74.901	4.00	0.063	0.005	0.032	99.936
2.25	0.210	1.320	8.443	83.344	4.25	0.053	0.010	0.064	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	11.507	63.394	25.035	0.064	0.000
Unified Classification	0.000	0.000	24.504	75.400	0.096	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.69	0.53	0.19	2.78
Folk Graphic Measures (PHI)	1.72	1.69	0.56	-0.05	0.96
Grain Size (mm)	0.30	0.31			

Offshore Pensacola, FL (PEN-91-08)

Locality Shelf Type Sand Sample 160 cm Date 8-20-91 Profile Analysis Date 5-12-92 Analyz TC/RM  
X Position : 30:01.38 Y Position : 87:08.67  
Elevation of Top of Core : 110'  
Length of Core : 281 cm  
Depth to Top of Sample : 155cm  
Depth to Bottom of Sample : 165 cm

Comments : Thuy Bui

Start Weight : 15.519 Final Weight : 15.484 Deviation : 0.226 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.014	6.549	81.921
0.25	0.841	0.046	0.297	0.297	2.50	0.177	1.494	9.649	91.572
0.50	0.707	0.360	2.325	2.622	2.75	0.149	0.942	6.084	97.656
0.75	0.595	0.556	3.591	6.213	3.00	0.125	0.214	1.382	99.038
1.00	0.500	1.285	8.299	14.512	3.25	0.105	0.120	0.775	99.813
1.25	0.420	1.722	11.121	25.633	3.50	0.088	0.018	0.116	99.929
1.50	0.354	1.864	12.038	37.671	3.75	0.074	0.009	0.058	99.987
1.75	0.297	2.836	18.316	55.987	4.00	0.063	0.002	0.013	100.000
2.00	0.250	3.002	19.388	75.375	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	14.512	60.863	24.625	0.000	0.000
Unified Classification	0.000	0.000	25.633	74.354	0.013	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.65	0.59	0.03	2.72
Folk Graphic Measures (PHI)	1.67	1.67	0.62	-0.01	1.07
Grain Size (mm)	0.31	0.32			



Offshore Pensacola, FL (PEN-91-08)

Locality Shelf Type Sand Sample 215 cm Date 8-20-91 Profile Analysis Date 5-12-92 Analyz TC/RM  
X Position : 30:01.38 Y Position : 87:08.67  
Elevation of Top of Core : 110'  
Length of Core : 281 cm  
Depth to Top of Sample : 210cm  
Depth to Bottom of Sample : 220 cm

Comments : Thuy Bui

Start Weight : 15.263 Final Weight : 15.240 Deviation : 0.151 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.246	8.176	81.522
0.00	1.000	0.758	4.974	4.974	2.50	0.177	1.709	11.214	92.736
0.25	0.841	0.471	3.091	8.064	2.75	0.149	0.735	4.823	97.559
0.50	0.707	0.332	2.178	10.243	3.00	0.125	0.258	1.693	99.252
0.75	0.595	0.362	2.375	12.618	3.25	0.105	0.092	0.604	99.856
1.00	0.500	0.835	5.479	18.097	3.50	0.088	0.022	0.144	100.000
1.25	0.420	1.509	9.902	27.999	3.75	0.074	0.000	0.000	100.000
1.50	0.354	1.522	9.987	37.986	4.00	0.063	0.000	0.000	100.000
1.75	0.297	2.464	16.168	54.154	4.25	0.053	0.000	0.000	100.000
2.00	0.250	2.925	19.193	73.346					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	18.097	55.249	26.654
Unified Classification	0.000	0.000	27.999	72.001

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.58	0.73	-0.60	3.05
Folk Graphic Measures (PHI)	1.69	1.63	0.75	-0.20	1.22
Grain Size (mm)	0.31	0.33			

Offshore Pensacola, FL (PEN-91-08)

Locality Shelf Type Sand Sample 245 cm Date 8-20-91 Profile Analysis Date 5-13-92 Analyz TC/RM  
X Position : 30:01.38 Y Position : 87:08.67  
Elevation of Top of Core : 110'  
Length of Core : 281 cm  
Depth to Top of Sample : 240cm  
Depth to Bottom of Sample : 250 cm

Comments : Thuy Bui

Start Weight : 15.142 Final Weight : 15.106 Deviation : 0.238 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.277	8.454	79.061
0.00	1.000	0.556	3.681	3.681	2.50	0.177	1.830	12.114	91.176
0.25	0.841	0.335	2.218	5.898	2.75	0.149	0.856	5.667	96.842
0.50	0.707	0.334	2.211	8.109	3.00	0.125	0.328	2.171	99.014
0.75	0.595	0.433	2.866	10.976	3.25	0.105	0.119	0.788	99.801
1.00	0.500	1.003	6.640	17.616	3.50	0.088	0.030	0.199	100.000
1.25	0.420	1.443	9.552	27.168	3.75	0.074	0.000	0.000	100.000
1.50	0.354	1.412	9.347	36.515	4.00	0.063	0.000	0.000	100.000
1.75	0.297	2.109	13.961	50.477	4.25	0.053	0.000	0.000	100.000
2.00	0.250	3.041	20.111	70.608					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	17.616	52.992	29.392
Unified Classification	0.000	0.000	27.168	72.832

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.63	0.71	-0.54	3.03
Folk Graphic Measures (PHI)	1.74	1.68	0.74	-0.20	1.10
Grain Size (mm)	0.30	0.32			

Offshore Pensacola, FL (PEN-91-08)

Locality Shelf Type Sand Sample 270 cm Date 8-20-91 Profile Analysis Date 5-13-92 Analyz TC/RM

X Position : 30:01.38 Y Position : 87:08.67

Elevation of Top of Core : 110'  
Length of Core : 281 cm  
Depth to Top of Sample : 265 cm  
Depth to Bottom of Sample : 275 cm

Comments : Thuy Bui

Start Weight : 15.553 Final Weight : 15.550 Deviation : 0.019 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.182	7.601	80.984
0.00	1.000	0.760	4.887	4.887	2.50	0.177	1.726	11.100	92.084
0.25	0.841	0.496	3.190	8.077	2.75	0.149	0.820	5.273	97.157
0.50	0.707	0.316	2.032	10.109	3.00	0.125	0.297	1.910	99.267
0.75	0.595	0.442	2.842	12.952	3.25	0.105	0.093	0.598	99.865
1.00	0.500	1.140	7.331	20.283	3.50	0.088	0.016	0.103	99.968
1.25	0.420	1.552	9.981	30.264	3.75	0.074	0.004	0.026	99.994
1.50	0.354	1.483	9.537	39.801	4.00	0.063	0.001	0.006	100.000
1.75	0.297	2.235	14.373	54.174	4.25	0.053	0.000	0.000	100.000
2.00	0.250	2.987	19.209	73.383					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	20.283	53.100	26.617
Unified Classification	0.000	0.000	30.264	69.730

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.57	0.74	-0.52	2.88
Folk Graphic Measures (PHI)	1.68	1.62	0.76	-0.20	1.15
Grain Size (mm)	0.31	0.34			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 25 cm Date 8-20-91 Profile Analysis Date 4-19-93 Analyz TC/RM

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 106 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 13.895 Final Weight : 13.965 Deviation : 0.504 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.212	8.679	94.064
0.50	0.707	0.116	0.831	0.831	2.75	0.149	0.511	3.659	97.723
0.75	0.595	0.323	2.313	3.144	3.00	0.125	0.204	1.461	99.184
1.00	0.500	1.217	8.715	11.858	3.25	0.105	0.064	0.458	99.642
1.25	0.420	1.893	13.555	25.414	3.50	0.088	0.026	0.186	99.828
1.50	0.354	1.648	11.801	37.214	3.75	0.074	0.019	0.136	99.964
1.75	0.297	2.194	15.711	52.925	4.00	0.063	0.003	0.021	99.986
2.00	0.250	3.236	23.172	76.097	4.25	0.053	0.002	0.014	100.000
2.25	0.210	1.297	9.288	85.385					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	11.858	64.239	23.888
Unified Classification	0.000	0.000	25.414	74.551

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.67	0.54	0.16	2.92
Folk Graphic Measures (PHI)	1.70	1.66	0.55	-0.06	0.97
Grain Size (mm)	0.31	0.31			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 50 cm Date 8-20-91 Profile Analysis Date 4-19-93 Analyz TC/RH

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.483 Final Weight : 11.500 Deviation : 0.148 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.194	10.383	91.087
0.50	0.707	0.058	0.504	0.504	2.75	0.149	0.564	4.904	95.991
0.75	0.595	0.166	1.443	1.948	3.00	0.125	0.288	2.504	98.496
1.00	0.500	0.737	6.409	8.357	3.25	0.105	0.110	0.957	99.452
1.25	0.420	1.391	12.096	20.452	3.50	0.088	0.029	0.252	99.704
1.50	0.354	1.361	11.835	32.287	3.75	0.074	0.018	0.157	99.861
1.75	0.297	1.831	15.922	48.209	4.00	0.063	0.012	0.104	99.965
2.00	0.250	2.783	24.200	72.409	4.25	0.053	0.004	0.035	100.000
2.25	0.210	0.954	8.296	80.704					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	8.357	64.052	27.557	0.035	0.000
Unified Classification	0.000	0.000	20.452	79.409	0.139	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.75	0.55	0.27	3.10
Folk Graphic Measures (PHI)	1.77	1.75	0.57	-0.01	1.02
Grain Size (mm)	0.29	0.30			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 75 cm Date 8-20-91 Profile Analysis Date 4-20-93 Analyz TC/RH

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.795 Final Weight : 11.823 Deviation : 0.237 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.208	10.217	92.269
0.50	0.707	0.064	0.541	0.541	2.75	0.149	0.538	4.550	96.820
0.75	0.595	0.192	1.624	2.165	3.00	0.125	0.249	2.106	98.926
1.00	0.500	0.763	6.454	8.619	3.25	0.105	0.087	0.736	99.662
1.25	0.420	1.394	11.791	20.409	3.50	0.088	0.019	0.161	99.822
1.50	0.354	1.391	11.765	32.175	3.75	0.074	0.012	0.101	99.924
1.75	0.297	1.914	16.189	48.363	4.00	0.063	0.007	0.059	99.983
2.00	0.250	2.860	24.190	72.553	4.25	0.053	0.002	0.017	100.000
2.25	0.210	1.123	9.498	82.052					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	8.619	63.935	27.430	0.017	0.000
Unified Classification	0.000	0.000	20.409	79.515	0.076	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.74	0.54	0.16	2.99
Folk Graphic Measures (PHI)	1.77	1.74	0.56	-0.04	1.02
Grain Size (mm)	0.29	0.30			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 4-20-93 Analyz TC/RM  
X Position : 30:04.78 Y Position : 87:11.68  
Elevation of Top of Core : 86'  
Length of Core : 106 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.933 Final Weight : 11.935 Deviation : 0.017 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.203	10.080	91.621
0.50	0.707	0.058	0.486	0.486	2.75	0.149	0.568	4.759	96.380
0.75	0.595	0.171	1.433	1.919	3.00	0.125	0.266	2.229	98.609
1.00	0.500	0.711	5.957	7.876	3.25	0.105	0.104	0.871	99.481
1.25	0.420	1.369	11.470	19.346	3.50	0.088	0.030	0.251	99.732
1.50	0.354	1.396	11.697	31.043	3.75	0.074	0.019	0.159	99.891
1.75	0.297	1.966	16.473	47.516	4.00	0.063	0.010	0.084	99.975
2.00	0.250	2.996	25.103	72.618	4.25	0.053	0.003	0.025	100.000
2.25	0.210	1.065	8.923	81.542					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	7.876	64.742	27.357	0.025	0.000
Unified Classification	0.000	0.000	19.346	80.545	0.109	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.75	0.54	0.24	3.17
Folk Graphic Measures (PHI)	1.77	1.75	0.56	-0.03	1.06
Grain Size (mm)	0.29	0.30			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 125 cm Date 8-20-91 Profile Analysis Date 4-20-93 Analyz TC/RM  
X Position : 30:04.78 Y Position : 87:11.68  
Elevation of Top of Core : 86'  
Length of Core : 106 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 11.727 Final Weight : 11.738 Deviation : 0.094 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.838	7.139	94.548
0.50	0.707	0.157	1.338	1.338	2.75	0.149	0.365	3.110	97.657
0.75	0.595	0.394	3.357	4.694	3.00	0.125	0.176	1.499	99.157
1.00	0.500	1.232	10.496	15.190	3.25	0.105	0.069	0.588	99.744
1.25	0.420	1.863	15.872	31.062	3.50	0.088	0.017	0.145	99.889
1.50	0.354	1.528	13.018	44.079	3.75	0.074	0.010	0.085	99.974
1.75	0.297	1.879	16.008	60.087	4.00	0.063	0.002	0.017	99.991
2.00	0.250	2.352	20.037	80.124	4.25	0.053	0.001	0.009	100.000
2.25	0.210	0.855	7.284	87.408					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	15.190	64.934	19.867	0.009	0.000
Unified Classification	0.000	0.000	31.062	68.913	0.026	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.59	0.55	0.29	2.90
Folk Graphic Measures (PHI)	1.59	1.58	0.55	0.01	0.93
Grain Size (mm)	0.33	0.33			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 150 cm Date 8-20-91 Profile Analysis Date 4-21-93 Analyz TC/RM

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 106 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 11.718 Final Weight : 11.686 Deviation : 0.273 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.634	5.425	96.586
0.50	0.707	0.206	1.763	1.763	2.75	0.149	0.252	2.156	98.742
0.75	0.595	0.427	3.654	5.417	3.00	0.125	0.097	0.830	99.572
1.00	0.500	1.389	11.886	17.303	3.25	0.105	0.035	0.300	99.872
1.25	0.420	2.040	17.457	34.760	3.50	0.088	0.008	0.068	99.940
1.50	0.354	1.633	13.974	48.734	3.75	0.074	0.004	0.034	99.974
1.75	0.297	1.929	16.507	65.240	4.00	0.063	0.002	0.017	99.991
2.00	0.250	2.349	20.101	85.341	4.25	0.053	0.001	0.009	100.000
2.25	0.210	0.680	5.819	91.160					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	17.303	68.039	14.650	0.009	0.000
Unified Classification	0.000	0.000	34.760	65.215	0.026	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.51	0.52	0.27	2.96
Folk Graphic Measures (PHI)	1.52	1.49	0.51	-0.01	0.92
Grain Size (mm)	0.35	0.35			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 175 cm Date 8-20-91 Profile Analysis Date 4-21-93 Analyz TC/RM

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 106 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 12.448 Final Weight : 12.417 Deviation : 0.249 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.25	0.210	0.966	7.780	85.665
0.50	0.707	0.172	1.385	1.385	2.50	0.177	1.057	8.513	94.177
0.75	0.595	0.321	2.588	3.970	2.75	0.149	0.456	3.672	97.850
1.00	0.500	1.168	9.406	13.377	3.00	0.125	0.193	1.554	99.404
1.25	0.420	1.744	14.045	27.422	3.25	0.105	0.062	0.499	99.903
1.50	0.354	1.507	12.137	39.559	3.50	0.088	0.006	0.048	99.952
1.75	0.297	1.933	15.567	55.126	3.75	0.074	0.004	0.032	99.984
2.00	0.250	2.826	22.759	77.885	4.00	0.063	0.002	0.016	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	13.377	64.508	22.115	0.000	0.000
Unified Classification	0.000	0.000	27.422	72.562	0.016	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.64	0.55	0.11	2.71
Folk Graphic Measures (PHI)	1.67	1.64	0.56	-0.04	0.96
Grain Size (mm)	0.31	0.32			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 200 cm Date 8-20-91 Profile Analysis Date 4-22-93 Analyz TC/RM

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 12.460 Final Weight : 12.444 Deviation : 0.128 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.092	8.775	92.872
0.50	0.707	0.094	0.755	0.755	2.75	0.149	0.494	3.970	96.842
0.75	0.595	0.216	1.736	2.491	3.00	0.125	0.235	1.888	98.730
1.00	0.500	0.958	7.698	10.190	3.25	0.105	0.094	0.755	99.486
1.25	0.420	1.684	13.533	23.722	3.50	0.088	0.025	0.201	99.687
1.50	0.354	1.533	12.319	36.041	3.75	0.074	0.015	0.121	99.807
1.75	0.297	2.056	16.522	52.563	4.00	0.063	0.015	0.121	99.928
2.00	0.250	2.924	23.497	76.061	4.25	0.053	0.009	0.072	100.000
2.25	0.210	1.000	8.036	84.097					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	10.190	65.871	23.867
Unified Classification	0.000	0.000	23.722	76.085

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.69	0.55	0.33	3.32
Folk Graphic Measures (PHI)	1.71	1.69	0.56	-0.02	1.04
Grain Size (mm)	0.31	0.31			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 225 cm Date 8-20-91 Profile Analysis Date 4-22-93 Analyz TC/RM

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 12.689 Final Weight : 12.668 Deviation : 0.165 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.045	8.249	94.987
0.50	0.707	0.100	0.789	0.789	2.75	0.149	0.418	3.300	98.287
0.75	0.595	0.265	2.092	2.881	3.00	0.125	0.153	1.208	99.495
1.00	0.500	0.998	7.878	10.759	3.25	0.105	0.047	0.371	99.866
1.25	0.420	1.691	13.149	24.108	3.50	0.088	0.007	0.055	99.921
1.50	0.354	1.540	12.157	36.265	3.75	0.074	0.004	0.032	99.953
1.75	0.297	2.141	16.901	53.165	4.00	0.063	0.003	0.024	99.976
2.00	0.250	3.121	24.637	77.802	4.25	0.053	0.003	0.024	100.000
2.25	0.210	1.132	8.936	86.738					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	10.759	67.043	22.174
Unified Classification	0.000	0.000	24.108	75.845

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.66	0.52	0.09	2.93
Folk Graphic Measures (PHI)	1.70	1.66	0.52	-0.09	0.98
Grain Size (mm)	0.31	0.32			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 250 cm Date 8-20-91 Profile Analysis Date 4-23-93 Analyz TC/RH

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 12.070 Final Weight : 12.065 Deviation : 0.041 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.672	5.570	97.091
0.50	0.707	0.152	1.260	1.260	2.75	0.149	0.239	1.981	99.072
0.75	0.595	0.378	3.133	4.393	3.00	0.125	0.085	0.705	99.776
1.00	0.500	1.285	10.651	15.044	3.25	0.105	0.022	0.182	99.959
1.25	0.420	2.024	16.776	31.819	3.50	0.088	0.003	0.025	99.983
1.50	0.354	1.750	14.505	46.324	3.75	0.074	0.001	0.008	99.992
1.75	0.297	2.132	17.671	63.995	4.00	0.063	0.001	0.008	100.000
2.00	0.250	2.576	21.351	85.346	4.25	0.053	0.000	0.000	100.000
2.25	0.210	0.745	6.175	91.521					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	15.044	70.303	14.654	0.000	0.000
Unified Classification	0.000	0.000	31.819	68.172	0.008	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.54	0.50	0.16	2.81
Folk Graphic Measure (PHI)	1.55	1.52	0.49	-0.03	0.92
Grain Size (mm)	0.34	0.34			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 275 cm Date 8-20-91 Profile Analysis Date 4-23-93 Analyz TC/RH

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 12.184 Final Weight : 12.170 Deviation : 0.115 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.091	8.965	93.813
0.50	0.707	0.139	1.142	1.142	2.75	0.149	0.470	3.862	97.675
0.75	0.595	0.307	2.523	3.665	3.00	0.125	0.194	1.594	99.269
1.00	0.500	1.028	8.447	12.112	3.25	0.105	0.063	0.518	99.786
1.25	0.420	1.639	13.468	25.579	3.50	0.088	0.012	0.099	99.885
1.50	0.354	1.469	12.071	37.650	3.75	0.074	0.006	0.049	99.934
1.75	0.297	1.944	15.974	53.624	4.00	0.063	0.006	0.049	99.984
2.00	0.250	2.805	23.048	76.672	4.25	0.053	0.002	0.016	100.000
2.25	0.210	0.995	8.176	84.848					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	12.112	64.560	23.311	0.016	0.000
Unified Classification	0.000	0.000	25.579	74.355	0.066	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.66	0.55	0.13	2.87
Folk Graphic Measure (PHI)	1.69	1.66	0.56	-0.04	0.99
Grain Size (mm)	0.31	0.32			

Offshore Pensacola, FL (PEN-91-09)

Locality Shelf Type Sand Sample 300 cm Date 8-20-91 Profile Analysis Date 4-21-93 Analyz TC/RM

X Position : 30:04.78 Y Position : 87:11.68

Elevation of Top of Core : 86'  
Length of Core : 306 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 12.000 Final Weight : 11.993 Deviation : 0.058 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	0.957	7.980	93.605
0.50	0.707	0.147	1.226	1.226	2.75	0.149	0.435	3.627	97.232
0.75	0.595	0.337	2.810	4.036	3.00	0.125	0.204	1.701	98.933
1.00	0.500	1.218	10.123	14.358	3.25	0.105	0.075	0.625	99.558
1.25	0.420	1.843	15.167	29.726	3.50	0.088	0.016	0.133	99.691
1.50	0.354	1.518	12.657	42.383	3.75	0.074	0.015	0.125	99.817
1.75	0.297	1.828	15.242	57.625	4.00	0.063	0.012	0.100	99.917
2.00	0.250	2.538	21.162	78.788	4.25	0.053	0.010	0.083	100.000
2.25	0.210	0.820	6.837	85.625					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	14.358	64.429	21.129	0.083	0.000
Unified Classification	0.000	0.000	29.726	70.091	0.183	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.62	0.57	0.36	3.19
Folk Graphic Measures (PHI)	1.62	1.61	0.57	0.02	0.96
Grain Size (mm)	0.32	0.33			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 5 cm Date 8-20-91 Profile Analysis Date 2-11-92 Analyz MT/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 8.785 Final Weight : 8.588 Deviation : 2.242 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	1.869	21.763	77.632
0.75	0.595	0.002	0.023	0.023	2.75	0.149	1.077	12.541	90.172
1.00	0.500	0.193	2.247	2.271	3.00	0.125	0.486	5.659	95.831
1.25	0.420	0.348	4.052	6.323	3.25	0.105	0.203	2.164	98.195
1.50	0.354	0.391	4.553	10.876	3.50	0.088	0.060	0.499	98.894
1.75	0.297	0.699	8.139	19.015	3.75	0.074	0.042	0.489	99.383
2.00	0.250	1.945	22.648	41.663	4.00	0.063	0.028	0.326	99.709
2.25	0.210	1.220	14.206	55.869	4.25	0.053	0.025	0.291	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.271	39.392	58.046	0.291	0.000
Unified Classification	0.000	0.000	6.323	93.060	0.617	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.53	0.07	3.64
Folk Graphic Measures (PHI)	2.15	2.14	0.51	-0.05	1.13
Grain Size (mm)	0.23	0.23			



Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 50 cm Date 8-20-91 Profile Analysis Date 2-11-92 Analyz MT/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 10.650 Final Weight : 10.614 Deviation : 0.338 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.75	0.149	1.269	11.956	93.028
0.75	0.595	0.002	0.019	0.019	3.00	0.125	0.519	4.890	97.918
1.00	0.500	0.157	1.479	1.498	3.25	0.105	0.154	1.451	99.369
1.25	0.420	0.378	3.561	5.059	3.50	0.088	0.027	0.254	99.623
1.50	0.354	0.496	4.673	9.732	3.75	0.074	0.015	0.141	99.764
1.75	0.297	0.950	8.950	18.683	4.00	0.063	0.013	0.122	99.887
2.00	0.250	2.657	25.033	43.716	4.25	0.053	0.009	0.085	99.972
2.25	0.210	1.578	14.867	58.583	4.50	0.044	0.003	0.028	100.000
2.50	0.177	2.387	22.489	81.072					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	1.498	42.218	56.171	0.113	0.000
Unified Classification	0.000	0.000	5.059	94.705	0.236	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.11	0.47	-0.06	3.50
Folk Graphic Measures (PHI)	2.11	2.11	0.46	-0.02	1.06
Grain Size (mm)	0.23	0.23			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 2-11-92 Analyz TC/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 13.404 Final Weight : 13.395 Deviation : 0.067 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.269	16.939	88.242
0.50	0.707	0.104	0.776	0.776	2.75	0.149	1.039	7.757	95.999
0.75	0.595	0.185	1.381	2.158	3.00	0.125	0.372	2.777	98.776
1.00	0.500	0.502	3.748	5.905	3.25	0.105	0.103	0.769	99.545
1.25	0.420	0.837	6.249	12.154	3.50	0.088	0.036	0.269	99.813
1.50	0.354	0.895	6.682	18.835	3.75	0.074	0.009	0.067	99.881
1.75	0.297	1.560	11.646	30.482	4.00	0.063	0.009	0.067	99.948
2.00	0.250	3.613	26.973	57.454	4.25	0.053	0.007	0.052	100.000
2.25	0.210	1.855	13.848	71.303					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.905	51.549	42.493	0.052	0.000
Unified Classification	0.000	0.000	12.154	87.727	0.119	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.92	0.53	-0.29	3.36
Folk Graphic Measures (PHI)	1.93	1.92	0.53	-0.07	1.08
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf : Type Sand : Sample 200 cm : Date 8-20-91 : Profile : Analysis Date 2-12-92 : Analyz MT/RH  
 X Position : 29:57.76 : Y Position : 87:20.20 :  
 Elevation of Top of Core : 91'  
 Length of Core : 405 cm  
 Depth to Top of Sample : 195 cm  
 Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 11.312		Final Weight : 11.235		Deviation : 0.068			
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
0.00	1.000	0.000	0.000	0.000	0.000	2.75	0.149
0.25	0.841	0.097	0.863	0.863	0.331	3.00	0.125
0.50	0.707	0.076	0.676	1.540	0.094	3.25	0.105
0.75	0.595	0.144	1.282	2.822	0.032	3.50	0.088
1.00	0.500	0.533	4.744	7.566	0.020	3.75	0.074
1.25	0.430	0.799	7.112	14.677	0.014	4.00	0.063
1.50	0.354	0.806	7.174	21.851	0.008	4.25	0.053
1.75	0.297	1.260	11.215	33.066	0.003	4.50	0.044
2.00	0.250	2.902	25.810	58.896	0.004	4.75	0.037
2.25	0.210	1.332	11.856	70.752	0.005	5.00	0.031
2.50	0.177	1.852	16.484	87.236			

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	7.566	51.331	40.926	0.178	0.000		
0.000	0.000	14.677	85.020	0.303	0.000		

Standard Statistics :

Method of Moments (PHI)		Folk Graphic Measures (PHI)		Grain Size (mm)	
Mean	Dev.	Mean	Skew	Mean	Kurt
1.91	0.58	1.90	-0.21	1.90	3.87
0.27	0.57	0.27	-0.10	0.27	1.03

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf : Type Sand : Sample 150 cm : Date 8-20-91 : Profile : Analysis Date 2-11-92 : Analyz TC/RH  
 X Position : 29:57.76 : Y Position : 87:20.20 :  
 Elevation of Top of Core : 91'  
 Length of Core : 405 cm  
 Depth to Top of Sample : 145 cm  
 Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 16.007		Final Weight : 15.987		Deviation : 0.125			
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
0.25	0.841	0.000	0.000	0.000	0.000	2.50	0.177
0.50	0.707	0.094	0.588	0.588	1.365	2.75	0.149
0.75	0.595	0.133	0.832	1.420	0.416	3.00	0.125
1.00	0.500	0.426	2.685	4.085	0.409	3.25	0.105
1.25	0.420	0.794	4.967	9.051	0.401	3.50	0.088
1.50	0.354	0.889	5.561	14.612	0.071	3.75	0.074
1.75	0.297	1.622	10.146	24.758	0.021	4.00	0.063
2.00	0.250	4.126	25.808	50.566	0.008	4.25	0.053
2.25	0.210	2.247	14.055	64.621			

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	4.085	46.482	49.384	0.050	0.000		
0.000	0.000	9.051	90.767	0.181	0.000		

Standard Statistics :

Method of Moments (PHI)		Folk Graphic Measures (PHI)		Grain Size (mm)	
Mean	Dev.	Mean	Skew	Mean	Kurt
2.02	0.53	2.01	-0.21	2.01	3.60
0.25	0.51	0.25	-0.01	0.25	1.15

Offshore Pensacola, FL (PEN-91-11)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 250 cm 8-20-91 87:20.20 2-12-92 MT/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.011 Final Weight : 10.993 Deviation : 0.182 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.633	14.855	89.966
0.25	0.841	0.498	4.530	4.530	2.75	0.149	0.759	6.904	96.871
0.50	0.707	0.112	1.019	5.549	3.00	0.125	0.242	2.201	99.072
0.75	0.595	0.119	1.083	6.631	3.25	0.105	0.067	0.609	99.682
1.00	0.500	0.569	5.176	11.808	3.50	0.088	0.012	0.109	99.791
1.25	0.420	0.824	7.496	19.303	3.75	0.074	0.010	0.091	99.882
1.50	0.354	0.795	7.232	26.535	4.00	0.063	0.009	0.082	99.964
1.75	0.297	1.311	11.926	38.461	4.25	0.053	0.002	0.018	99.982
2.00	0.250	2.826	25.707	64.168	4.50	0.044	0.001	0.009	99.991
2.25	0.210	1.203	10.943	75.111	4.75	0.037	0.001	0.009	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	11.808	52.361	35.796
Unified Classification	0.000	0.000	19.303	80.579

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.78	0.64	-0.65	3.53
Folk Graphic Measures (PHI)	1.86	1.80	0.67	-0.22	1.19
Grain Size (mm)	0.28	0.29			

Offshore Pensacola, FL (PEN-91-11)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 300 cm 8-20-91 87:20.20 2-12-92 MT/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 9.696 Final Weight : 9.602 Deviation : 0.969 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.725	17.965	84.774
0.25	0.841	0.224	2.331	2.331	2.75	0.149	0.925	9.633	94.407
0.50	0.707	0.105	1.094	3.426	3.00	0.125	0.347	3.614	98.021
0.75	0.595	0.127	1.323	4.749	3.25	0.105	0.116	1.208	99.229
1.00	0.500	0.385	4.010	8.759	3.50	0.088	0.027	0.281	99.511
1.25	0.420	0.558	5.811	14.570	3.75	0.074	0.020	0.208	99.719
1.50	0.354	0.600	6.249	20.819	4.00	0.063	0.009	0.094	99.813
1.75	0.297	1.005	10.467	31.285	4.25	0.053	0.010	0.104	99.917
2.00	0.250	2.268	23.620	54.905	4.50	0.044	0.005	0.052	99.969
2.25	0.210	1.143	11.904	66.809	4.75	0.037	0.003	0.031	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	8.759	46.147	44.907
Unified Classification	0.000	0.000	14.570	85.149

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.92	0.63	-0.53	3.83
Folk Graphic Measures (PHI)	1.95	1.91	0.60	-0.13	1.09
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 350 cm Date 8-20-91 Profile Analysis Date 2-13-92 Analyz HT/RH

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 10.806 Final Weight : 10.669 Deviation : 1.268 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.602	24.388	75.987
0.00	1.000	0.075	0.703	0.703	2.75	0.149	1.501	14.069	90.055
0.25	0.841	0.030	0.281	0.984	3.00	0.125	0.615	5.764	95.820
0.50	0.707	0.027	0.253	1.237	3.25	0.105	0.222	2.081	97.900
0.75	0.595	0.075	0.703	1.940	3.50	0.088	0.069	0.647	98.547
1.00	0.500	0.177	1.659	3.599	3.75	0.074	0.051	0.478	99.025
1.25	0.420	0.229	2.146	5.746	4.00	0.063	0.031	0.291	99.316
1.50	0.354	0.411	3.852	9.598	4.25	0.053	0.028	0.262	99.578
1.75	0.297	0.762	7.142	16.740	4.50	0.044	0.021	0.197	99.775
2.00	0.250	2.274	21.314	38.054	4.75	0.037	0.013	0.122	99.897
2.25	0.210	1.445	13.544	51.598	5.00	0.031	0.011	0.103	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	3.599	34.455	61.262	0.684	0.000
Unified Classification	0.000	0.000	5.746	93.280	0.975	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.16	0.58	-0.32	5.97
Folk Graphic Measures (PHI)	2.22	2.20	0.50	-0.13	1.15
Grain Size (mm)	0.21	0.22			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 25 cm Date 8-20-91 Profile Analysis Date 7-28-94 Analyz TB/RH

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.002 Final Weight : 10.956 Deviation : 0.418 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.476	13.472	51.944
0.25	0.841	0.005	0.046	0.046	2.50	0.177	2.654	24.224	76.168
0.50	0.707	0.014	0.128	0.173	2.75	0.149	1.506	13.746	89.914
0.75	0.595	0.046	0.430	0.593	3.00	0.125	0.690	6.298	96.212
1.00	0.500	0.147	1.342	1.935	3.25	0.105	0.228	2.081	98.293
1.25	0.420	0.294	2.683	4.618	3.50	0.088	0.064	0.584	98.877
1.50	0.354	0.391	3.569	8.187	3.75	0.074	0.036	0.329	99.206
1.75	0.297	0.780	7.119	15.307	4.00	0.063	0.029	0.265	99.471
2.00	0.250	2.538	23.165	38.472	4.25	0.053	0.058	0.529	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	1.935	36.537	60.999	0.529	0.000
Unified Classification	0.000	0.000	4.618	94.587	0.794	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.18	0.51	0.01	4.34
Folk Graphic Measures (PHI)	2.21	2.20	0.48	-0.08	1.08
Grain Size (mm)	0.22	0.22			

Offshore Pensacola, FL (PEN-91-11)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 75 cm 8-20-91 87:20.20 7-28-94 TB/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 11.027 Final Weight : 10.988 Deviation : 0.354 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.482	13.487	59.319
0.25	0.841	0.022	0.200	0.200	2.50	0.177	2.381	21.669	80.988
0.50	0.707	0.039	0.355	0.555	2.75	0.149	1.300	11.831	92.819
0.75	0.595	0.059	0.537	1.092	3.00	0.125	0.504	4.587	97.406
1.00	0.500	0.221	2.011	3.103	3.25	0.105	0.161	1.465	98.871
1.25	0.420	0.422	3.841	6.944	3.50	0.088	0.039	0.355	99.226
1.50	0.354	0.525	4.778	11.722	3.75	0.074	0.023	0.209	99.436
1.75	0.297	0.980	8.919	20.641	4.00	0.063	0.016	0.146	99.581
2.00	0.250	2.768	25.191	45.832	4.25	0.053	0.046	0.419	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.103	42.728	53.750
Unified Classification	0.000	0.000	6.944	92.492

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.08	0.53	-0.15	4.27
Folk Graphic Measures (PHI)	2.08	2.09	0.50	-0.03	1.12
Grain Size (mm)	0.24	0.24			

Offshore Pensacola, FL (PEN-91-11)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 125 cm 8-20-91 87:20.20 7-28-94 TB/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 11.294 Final Weight : 11.259 Deviation : 0.310 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.411	12.532	62.892
0.25	0.841	0.031	0.275	0.275	2.50	0.177	2.235	19.851	82.743
0.50	0.707	0.038	0.338	0.613	2.75	0.149	1.206	10.711	93.454
0.75	0.595	0.107	0.950	1.563	3.00	0.125	0.475	4.219	97.673
1.00	0.500	0.357	3.171	4.734	3.25	0.105	0.153	1.359	99.032
1.25	0.420	0.565	5.018	9.752	3.50	0.088	0.037	0.329	99.361
1.50	0.354	0.660	5.862	15.614	3.75	0.074	0.021	0.187	99.547
1.75	0.297	1.098	9.752	25.366	4.00	0.063	0.014	0.124	99.671
2.00	0.250	2.814	24.993	50.360	4.25	0.053	0.037	0.329	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.734	45.626	49.312
Unified Classification	0.000	0.000	9.752	89.795

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.02	0.55	-0.19	3.81
Folk Graphic Measures (PHI)	2.00	2.01	0.53	-0.01	1.13
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample Date Profile Analysis Date Analyz  
8-20-91 7-28-94 TB/RH  
X Position : 29:57.76 Y Position : 87:20.20  
Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 11.257 Final Weight : 11.222 Deviation : 0.311 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.396	12.440	64.855
0.25	0.841	0.023	0.205	0.205	2.50	0.177	2.131	18.989	83.844
0.50	0.707	0.060	0.535	0.740	2.75	0.149	1.148	10.230	94.074
0.75	0.595	0.140	1.248	1.987	3.00	0.125	0.435	3.876	97.950
1.00	0.500	0.442	3.939	5.926	3.25	0.105	0.135	1.203	99.153
1.25	0.420	0.644	5.739	11.665	3.50	0.088	0.032	0.285	99.439
1.50	0.354	0.692	6.166	17.831	3.75	0.074	0.018	0.160	99.599
1.75	0.297	1.119	9.971	27.803	4.00	0.063	0.014	0.125	99.724
2.00	0.250	2.762	24.612	52.415	4.25	0.053	0.031	0.276	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.926	46.489	47.309	0.276	0.000
Unified Classification	0.000	0.000	11.665	87.934	0.401	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.98	0.57	-0.22	3.57
Folk Graphic Measures (PHI)	1.98	1.97	0.55	-0.06	1.09
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample Date Profile Analysis Date Analyz  
8-20-91 7-28-94 TB/RH  
X Position : 29:57.76 Y Position : 87:20.20  
Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 11.355 Final Weight : 11.319 Deviation : 0.317 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.378	12.174	64.741
0.25	0.841	0.028	0.247	0.247	2.50	0.177	2.123	18.756	83.497
0.50	0.707	0.063	0.557	0.804	2.75	0.149	1.134	10.019	93.515
0.75	0.595	0.162	1.431	2.235	3.00	0.125	0.452	3.993	97.509
1.00	0.500	0.421	3.719	5.955	3.25	0.105	0.152	1.343	98.851
1.25	0.420	0.656	5.796	11.750	3.50	0.088	0.041	0.362	99.214
1.50	0.354	0.699	6.175	17.926	3.75	0.074	0.025	0.221	99.435
1.75	0.297	1.133	10.010	27.935	4.00	0.063	0.017	0.150	99.585
2.00	0.250	2.788	24.631	52.566	4.25	0.053	0.047	0.415	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.955	46.612	47.018	0.415	0.000
Unified Classification	0.000	0.000	11.750	87.684	0.565	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.58	-0.14	3.73
Folk Graphic Measures (PHI)	1.97	1.97	0.56	-0.05	1.10
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 275 cm Date 8-20-91 Profile Analysis Date 7-28-94 Analyz TB/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 11.371 Final Weight : 11.327 Deviation : 0.387 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.315	11.609	67.794
0.25	0.841	0.068	0.600	0.600	2.50	0.177	1.971	17.401	85.195
0.50	0.707	0.114	1.006	1.607	2.75	0.149	1.044	9.217	94.412
0.75	0.595	0.208	1.836	3.441	3.00	0.125	0.403	3.558	97.969
1.00	0.500	0.533	4.706	8.149	3.25	0.105	0.129	1.139	99.108
1.25	0.420	0.725	6.401	14.549	3.50	0.088	0.035	0.309	99.417
1.50	0.354	0.750	6.621	21.171	3.75	0.074	0.018	0.159	99.576
1.75	0.297	1.185	10.462	31.632	4.00	0.063	0.014	0.124	99.700
2.00	0.250	2.781	24.552	56.184	4.25	0.053	0.034	0.300	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	8.149	48.036	43.515	0.300	0.000
Unified Classification	0.000	0.000	14.549	85.027	0.424	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.92	0.60	-0.26	3.53
Folk Graphic Measures (PHI)	1.94	1.91	0.59	-0.10	1.05
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 325 cm Date 8-20-91 Profile Analysis Date 7-28-94 Analyz TB/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 11.088 Final Weight : 11.059 Deviation : 0.262 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.282	11.592	68.722
0.25	0.841	0.080	0.723	0.723	2.50	0.177	1.882	17.018	85.740
0.50	0.707	0.106	0.958	1.682	2.75	0.149	0.997	9.015	94.755
0.75	0.595	0.200	1.808	3.490	3.00	0.125	0.378	3.418	98.173
1.00	0.500	0.533	4.820	8.310	3.25	0.105	0.123	1.112	99.286
1.25	0.420	0.732	6.619	14.929	3.50	0.088	0.029	0.262	99.548
1.50	0.354	0.750	6.782	21.711	3.75	0.074	0.015	0.136	99.684
1.75	0.297	1.190	10.760	32.471	4.00	0.063	0.011	0.099	99.783
2.00	0.250	2.727	24.659	57.130	4.25	0.053	0.024	0.217	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	8.310	48.820	42.653	0.217	0.000
Unified Classification	0.000	0.000	14.929	84.754	0.316	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.91	0.60	-0.30	3.45
Folk Graphic Measures (PHI)	1.93	1.90	0.59	-0.11	1.04
Grain Size (mm)	0.26	0.27			

Offshore Pensacola, FL (PEN-91-11)

Locality Shelf Type Sand Sample 360 cm Date 8-20-91 Profile Analysis Date 7-28-94 Analyz TC/RM

X Position : 29:57.76 Y Position : 87:20.20

Elevation of Top of Core : 91'  
Length of Core : 405 cm  
Depth to Top of Sample : 355 cm  
Depth to Bottom of Sample : 365 cm

Comments : Thuy Bul

Start Weight : 9.744 Final Weight : 9.689 Deviation : 0.564 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.789	8.143	29.054
0.25	0.841	0.006	0.062	0.062	2.50	0.177	2.526	26.071	55.124
0.50	0.707	0.008	0.083	0.144	2.75	0.149	2.391	24.677	79.802
0.75	0.595	0.017	0.175	0.320	3.00	0.125	1.223	12.623	92.424
1.00	0.500	0.089	0.919	1.239	3.25	0.105	0.418	4.314	96.739
1.25	0.420	0.208	2.147	3.385	3.50	0.088	0.101	1.042	97.781
1.50	0.354	0.266	2.745	6.131	3.75	0.074	0.066	0.681	98.462
1.75	0.297	0.412	4.252	10.383	4.00	0.063	0.051	0.526	98.989
2.00	0.250	1.020	10.527	20.910	4.25	0.053	0.098	1.011	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.239	19.672	78.078
Unified Classification	0.000	0.000	3.385	95.077

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.40	0.53	-0.28	4.56
Folk Graphic Measures (PHI)	2.45	2.39	0.50	-0.20	1.25
Grain Size (mm)	0.18	0.19			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 25 cm Date 8-20-91 Profile Analysis Date 4-23-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments :

Start Weight : 12.705 Final Weight : 12.694 Deviation : 0.007 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	3.164	24.925	86.931
0.50	0.707	0.024	0.189	0.189	2.75	0.149	1.225	9.650	96.581
0.75	0.595	0.062	0.488	0.677	3.00	0.125	0.352	2.773	99.354
1.00	0.500	0.191	1.505	2.182	3.25	0.105	0.054	0.425	99.779
1.25	0.420	0.379	2.986	5.168	3.50	0.088	0.009	0.071	99.850
1.50	0.354	0.490	3.860	9.028	3.75	0.074	0.003	0.024	99.874
1.75	0.297	1.051	8.280	17.307	4.00	0.063	0.009	0.071	99.945
2.00	0.250	3.332	26.249	43.556	4.25	0.053	0.007	0.055	100.000
2.25	0.210	2.342	18.450	62.006					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.182	41.374	56.389
Unified Classification	0.000	0.000	5.168	94.706

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.07	0.44	-0.50	4.17
Folk Graphic Measures (PHI)	2.09	2.09	0.41	-0.07	1.08
Grain Size (mm)	0.24	0.24			



Offshore Pensacola, FL (Pen-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 50 cm 8-20-91 4-27-93 TR/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments :

Start Weight : 11.256 Final Weight : 11.262 Deviation : 0.051 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.757	24.481	87.320
0.50	0.707	0.042	0.373	0.373	2.75	0.149	1.027	9.119	96.439
0.75	0.595	0.067	0.595	0.968	3.00	0.125	0.328	2.912	99.352
1.00	0.500	0.228	2.025	2.992	3.25	0.105	0.052	0.462	99.814
1.25	0.420	0.364	3.232	6.224	3.50	0.088	0.009	0.080	99.893
1.50	0.354	0.471	4.182	10.407	3.75	0.074	0.005	0.044	99.938
1.75	0.297	0.958	8.506	18.913	4.00	0.063	0.005	0.044	99.982
2.00	0.250	3.047	27.056	45.969	4.25	0.053	0.002	0.018	100.000
2.25	0.210	1.900	16.871	62.840					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.992	42.976	54.013	0.018	0.000
Unified Classification	0.000	0.000	6.224	93.713	0.062	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.05	0.46	-0.59	4.01
Folk Graphic Measures (PHI)	2.06	2.06	0.44	-0.07	1.12
Grain Size (mm)	0.24	0.24			

Offshore Pensacola, FL (Pen-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 75 cm 8-20-91 4-27-93 TR/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments :

Start Weight : 11.174 Final Weight : 11.161 Deviation : 0.116 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.869	25.706	85.530
0.50	0.707	0.026	0.233	0.233	2.75	0.149	1.191	10.671	96.201
0.75	0.595	0.050	0.448	0.681	3.00	0.125	0.336	3.010	99.212
1.00	0.500	0.155	1.389	2.070	3.25	0.105	0.056	0.502	99.713
1.25	0.420	0.292	2.616	4.686	3.50	0.088	0.013	0.116	99.830
1.50	0.354	0.386	3.458	8.144	3.75	0.074	0.008	0.072	99.901
1.75	0.297	0.875	7.840	15.984	4.00	0.063	0.007	0.063	99.964
2.00	0.250	2.995	26.835	42.819	4.25	0.053	0.004	0.036	100.000
2.25	0.210	1.898	17.006	59.824					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.070	40.749	57.145	0.036	0.000
Unified Classification	0.000	0.000	4.686	95.215	0.099	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.09	0.44	-0.51	4.22
Folk Graphic Measures (PHI)	2.11	2.11	0.40	-0.06	1.05
Grain Size (mm)	0.23	0.24			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 4-27-93 Analyz TR/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments :

Start Weight : 12.260 Final Weight : 12.251 Deviation : 0.073 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	3.496	28.536	83.201
0.50	0.707	0.015	0.122	0.122	2.75	0.149	1.486	12.130	95.331
0.75	0.595	0.038	0.310	0.433	3.00	0.125	0.461	3.763	99.094
1.00	0.500	0.128	1.045	1.477	3.25	0.105	0.074	0.604	99.698
1.25	0.420	0.245	2.000	3.477	3.50	0.088	0.015	0.122	99.820
1.50	0.354	0.342	2.792	6.269	3.75	0.074	0.009	0.073	99.894
1.75	0.297	0.782	6.383	12.652	4.00	0.063	0.008	0.065	99.959
2.00	0.250	3.021	24.659	37.311	4.25	0.053	0.005	0.041	100.000
2.25	0.210	2.126	17.354	54.665					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.477	35.834	62.648
Unified Classification	0.000	0.000	3.477	96.417

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.42	-0.49	4.33
Folk Graphic Measures (PHI)	2.18	2.16	0.39	-0.13	1.01
Grain Size (mm)	0.22	0.23			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 112 cm Date 8-20-91 Profile Analysis Date 5-12-93 Analyz SA/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 107 cm  
Depth to Bottom of Sample : 117 cm

Comments :

Start Weight : 11.543 Final Weight : 11.549 Deviation : 0.052 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	2.867	24.825	86.717
0.75	0.595	0.037	0.320	0.320	2.75	0.149	1.056	9.144	95.861
1.00	0.500	0.218	1.888	2.208	3.00	0.125	0.346	2.996	98.857
1.25	0.420	0.423	3.663	5.871	3.25	0.105	0.075	0.649	99.506
1.50	0.354	0.534	4.624	10.494	3.50	0.088	0.020	0.173	99.680
1.75	0.297	1.034	8.953	19.448	3.75	0.074	0.012	0.104	99.784
2.00	0.250	3.080	26.669	46.117	4.00	0.063	0.012	0.104	99.887
2.25	0.210	1.822	15.776	61.893	4.25	0.053	0.013	0.113	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.208	43.909	53.771
Unified Classification	0.000	0.000	5.871	93.913

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.06	0.46	-0.22	3.89
Folk Graphic Measures (PHI)	2.06	2.06	0.44	-0.07	1.09
Grain Size (mm)	0.24	0.24			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-20-91 8-27-93 TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments :

Start Weight : 11.198 Final Weight : 11.189 Deviation : 0.080 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.966	26.508	84.297
0.50	0.707	0.025	0.223	0.223	2.75	0.149	1.264	11.297	95.594
0.75	0.595	0.056	0.500	0.724	3.00	0.125	0.393	3.512	99.106
1.00	0.500	0.146	1.305	2.029	3.25	0.105	0.066	0.590	99.696
1.25	0.420	0.276	2.467	4.495	3.50	0.088	0.014	0.125	99.821
1.50	0.354	0.384	3.432	7.927	3.75	0.074	0.009	0.080	99.902
1.75	0.297	0.871	7.784	15.712	4.00	0.063	0.007	0.063	99.964
2.00	0.250	2.973	26.571	42.283	4.25	0.053	0.004	0.036	100.000
2.25	0.210	1.735	15.506	57.789					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	2.029	40.254	57.682	0.036	0.000
Unified Classification	0.000	0.000	4.495	95.406	0.098	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.10	0.44	-0.50	4.15
Folk Graphic Measures (PHI)	2.12	2.12	0.41	-0.08	1.03
Grain Size (mm)	0.23	0.23			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-20-91 5-13-93 SA/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 131 cm  
Depth to Bottom of Sample : 141 cm

Comments :

Start Weight : 11.808 Final Weight : 11.805 Deviation : 0.025 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.508	21.245	87.920
0.50	0.707	0.042	0.356	0.356	2.75	0.149	1.067	9.039	96.959
0.75	0.595	0.095	0.805	1.161	3.00	0.125	0.277	2.346	99.305
1.00	0.500	0.322	2.728	3.888	3.25	0.105	0.051	0.432	99.737
1.25	0.420	0.577	4.888	8.776	3.50	0.088	0.010	0.089	99.822
1.50	0.354	0.633	5.362	14.138	3.75	0.074	0.007	0.059	99.881
1.75	0.297	1.199	10.157	24.295	4.00	0.063	0.005	0.042	99.924
2.00	0.250	3.187	26.997	51.292	4.25	0.053	0.009	0.076	100.000
2.25	0.210	1.816	15.383	66.675					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.888	47.404	48.632	0.076	0.000
Unified Classification	0.000	0.000	8.776	91.105	0.119	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.48	-0.43	3.63
Folk Graphic Measures (PHI)	1.99	2.00	0.48	-0.06	1.14
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 150 cm Date 8-20-91 Profile Analysis Date 4-28-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments :

Start Weight : 11.747 Final Weight : 11.772 Deviation : 0.213 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.741	23.284	88.846
0.50	0.707	0.042	0.357	0.357	2.75	0.149	0.996	8.461	97.307
0.75	0.595	0.075	0.637	0.994	3.00	0.125	0.262	2.226	99.533
1.00	0.500	0.223	1.894	2.888	3.25	0.105	0.040	0.340	99.873
1.25	0.420	0.400	3.398	6.286	3.50	0.088	0.009	0.076	99.949
1.50	0.354	0.509	4.324	10.610	3.75	0.074	0.005	0.042	99.992
1.75	0.297	1.008	8.563	19.173	4.00	0.063	0.001	0.008	100.000
2.00	0.250	3.169	26.920	46.092	4.25	0.053	0.000	0.000	100.000
2.25	0.210	2.292	19.470	65.562					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	2.888	43.204	53.908	0.000	0.000
Unified Classification	0.000	0.000	6.286	93.705	0.008	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.03	0.44	-0.67	4.01
Folk Graphic Measures (PHI)	2.05	2.05	0.43	-0.08	1.14
Grain Size (mm)	0.24	0.24			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 160 cm Date 8-20-91 Profile Analysis Date 5-18-93 Analyz SA/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 155 cm  
Depth to Bottom of Sample : 165 cm

Comments :

Start Weight : 11.688 Final Weight : 11.678 Deviation : 0.086 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	2.897	24.807	88.054
0.75	0.595	0.067	0.574	0.574	2.75	0.149	0.978	8.375	96.429
1.00	0.500	0.315	2.697	3.271	3.00	0.125	0.276	2.363	98.793
1.25	0.420	0.552	4.727	7.998	3.25	0.105	0.067	0.574	99.366
1.50	0.354	0.646	5.532	13.530	3.50	0.088	0.021	0.180	99.546
1.75	0.297	1.086	9.300	22.829	3.75	0.074	0.015	0.128	99.675
2.00	0.250	2.912	24.936	47.765	4.00	0.063	0.009	0.077	99.752
2.25	0.210	1.808	15.482	63.247	4.25	0.053	0.029	0.248	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.271	44.494	51.987	0.248	0.000
Unified Classification	0.000	0.000	7.998	91.677	0.325	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.02	0.49	-0.20	3.96
Folk Graphic Measures (PHI)	2.04	2.02	0.47	-0.11	1.11
Grain Size (mm)	0.24	0.25			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 175 cm Date 8-20-91 Profile Analysis Date 4-28-93 Analyz TC/RM  
X Position : 29:54.87 Y Position : 87:24.25  
Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments :

Start Weight :		11.492	Final Weight :		11.488	Deviation :		0.005 %
PHI	MM	Weight Percent	Cumul Percent	PHI	MM	Weight Percent	Cumul Percent	
0.25	0.841	0.000	0.000	2.50	0.177	2.737	23.825	87.517
0.50	0.707	0.065	0.566	2.75	0.149	1.056	9.192	96.710
0.75	0.595	0.110	0.958	3.00	0.125	0.296	2.577	99.286
1.00	0.500	0.266	2.315	3.25	0.105	0.052	0.453	99.739
1.25	0.420	0.419	3.647	3.50	0.088	0.015	0.131	99.869
1.50	0.354	0.582	5.066	3.75	0.074	0.009	0.078	99.948
1.75	0.297	1.239	10.785	4.00	0.063	0.004	0.035	99.983
2.00	0.250	3.119	27.150	4.25	0.053	0.002	0.017	100.000
2.25	0.210	1.517	13.205					

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	fine	coarse	fine				
Wentworth Classification	0.000	3.839	46.649	49.495	0.017	0.000			
Unified Classification	0.000	0.000	7.486	92.462	0.052	0.000			
Standard Statistics :									
		Median		Mean		Dev.		Skew	
Method of Moments (PHI)		2.00		2.01		0.48		-0.55	
Folk Graphic Measures (PHI)		2.00		2.01		0.47		-0.03	
Grain Size (mm)		0.25		0.25		0.25		1.10	

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 184 cm Date 8-20-91 Profile Analysis Date 5-18-93 Analyz SA/RM  
X Position : 29:54.87 Y Position : 87:24.25  
Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 179 cm  
Depth to Bottom of Sample : 189 cm

Comments :

Start Weight :		11.610	Final Weight :		11.583	Deviation :		0.233 %
PHI	MM	Weight Percent	Cumul Percent	PHI	MM	Weight Percent	Cumul Percent	
0.25	0.841	0.000	0.000	2.50	0.177	2.635	22.749	89.893
0.50	0.707	0.048	0.414	2.75	0.149	1.187	10.248	96.141
0.75	0.595	0.060	0.691	3.00	0.125	0.333	2.875	99.016
1.00	0.500	0.272	2.348	3.25	0.105	0.064	0.553	99.568
1.25	0.420	0.485	4.187	3.50	0.088	0.017	0.147	99.715
1.50	0.354	0.586	5.059	3.75	0.074	0.012	0.104	99.819
1.75	0.297	1.128	9.738	4.00	0.063	0.006	0.052	99.870
2.00	0.250	3.053	26.358	4.25	0.053	0.015	0.130	100.000
2.25	0.210	1.662	14.349					

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	fine	coarse	fine				
Wentworth Classification	0.000	3.453	45.342	51.075	0.130	0.000			
Unified Classification	0.000	0.000	7.641	92.178	0.181	0.000			
Standard Statistics :									
		Median		Mean		Dev.		Skew	
Method of Moments (PHI)		2.02		2.03		0.49		-0.19	
Folk Graphic Measures (PHI)		2.02		2.03		0.47		-0.06	
Grain Size (mm)		0.25		0.25		0.25		1.10	

Offshore Pensacola, FL (Pan-91-12)

Locality Shelf Type Sand Sample 200 cm Date 8-20-91 Profile Analysis Date 4-28-93 Analyz TC/RM  
X Position : 29:54.87 Y Position : 87:24.25  
Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments :

Start Weight : 11.123 Final Weight : 11.118 Deviation : 0.045 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.658	23.907	86.679
0.50	0.707	0.061	0.549	0.549	2.75	0.149	1.076	9.678	96.357
0.75	0.595	0.083	0.747	1.295	3.00	0.125	0.312	2.806	99.164
1.00	0.500	0.227	2.042	3.337	3.25	0.105	0.060	0.540	99.703
1.25	0.420	0.392	3.526	6.863	3.50	0.088	0.011	0.099	99.802
1.50	0.354	0.509	4.578	11.441	3.75	0.074	0.010	0.090	99.892
1.75	0.297	1.024	9.210	20.651	4.00	0.063	0.007	0.063	99.955
2.00	0.250	3.120	28.063	48.714	4.25	0.053	0.005	0.045	100.000
2.25	0.210	1.563	14.058	62.772					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.337	45.377	51.241	0.045	0.000
Unified Classification	0.000	0.000	6.863	93.029	0.108	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.03	0.48	-0.52	4.00
Folk Graphic Measures (PHI)	2.02	2.04	0.45	-0.04	1.11
Grain Size (mm)	0.25	0.24			

Offshore Pensacola, FL (Pan-91-12)

Locality Shelf Type Sand Sample 225 cm Date 8-20-91 Profile Analysis Date 4-28-93 Analyz TC/RM  
X Position : 29:54.87 Y Position : 87:24.25  
Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments :

Start Weight : 11.285 Final Weight : 11.282 Deviation : 0.027 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.352	20.847	89.053
0.50	0.707	0.086	0.762	0.762	2.75	0.149	0.890	7.889	96.942
0.75	0.595	0.122	1.081	1.844	3.00	0.125	0.257	2.278	99.220
1.00	0.500	0.330	2.925	4.769	3.25	0.105	0.050	0.443	99.663
1.25	0.420	0.507	4.494	9.261	3.50	0.088	0.012	0.106	99.770
1.50	0.354	0.587	5.203	14.466	3.75	0.074	0.009	0.080	99.849
1.75	0.297	1.109	9.830	24.295	4.00	0.063	0.008	0.071	99.920
2.00	0.250	3.232	28.647	52.943	4.25	0.053	0.009	0.080	100.000
2.25	0.210	1.722	15.263	68.206					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.769	48.174	46.977	0.080	0.000
Unified Classification	0.000	0.000	9.263	90.587	0.151	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.97	0.50	-0.49	1.95
Folk Graphic Measures (PHI)	1.97	1.98	0.48	-0.06	1.19
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 250 cm Date 8-20-91 Profile Analysis Date 5-03-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments :

Start Weight : 11.899 Final Weight : 11.886 Deviation : 0.109 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.650	22.295	88.272
0.50	0.707	0.080	0.673	0.673	2.75	0.149	1.052	8.851	97.123
0.75	0.595	0.127	1.068	1.742	3.00	0.125	0.287	2.415	99.537
1.00	0.500	0.330	2.776	4.518	3.25	0.105	0.045	0.379	99.916
1.25	0.420	0.526	4.425	8.943	3.50	0.088	0.006	0.050	99.966
1.50	0.354	0.591	4.972	13.916	3.75	0.074	0.003	0.025	99.992
1.75	0.297	1.122	9.440	23.355	4.00	0.063	0.001	0.008	100.000
2.00	0.250	3.272	27.528	50.883	4.25	0.053	0.000	0.000	100.000
2.25	0.210	1.794	15.093	65.977					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.518	46.365	49.117
Unified Classification	0.000	0.000	8.943	91.048

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.49	-0.66	3.62
Folk Graphic Measures (PHI)	1.99	2.00	0.48	-0.07	1.16
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 275 cm Date 8-20-91 Profile Analysis Date 5-03-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments :

Start Weight : 11.102 Final Weight : 11.093 Deviation : 0.081 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.203	19.859	88.966
0.50	0.707	0.063	0.568	0.568	2.75	0.149	0.912	8.221	97.187
0.75	0.595	0.136	1.226	1.794	3.00	0.125	0.252	2.272	99.459
1.00	0.500	0.397	3.579	5.373	3.25	0.105	0.045	0.406	99.665
1.25	0.420	0.628	5.661	11.034	3.50	0.088	0.007	0.063	99.928
1.50	0.354	0.670	6.040	17.074	3.75	0.074	0.006	0.054	99.982
1.75	0.297	1.228	11.070	28.144	4.00	0.063	0.002	0.018	100.000
2.00	0.250	3.122	28.144	56.288	4.25	0.053	0.000	0.000	100.000
2.25	0.210	1.422	12.819	69.107					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.373	50.915	43.712
Unified Classification	0.000	0.000	11.034	88.948

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.94	0.50	-0.48	3.23
Folk Graphic Measures (PHI)	1.94	1.45	0.50	-0.07	1.09
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 300 cm Date 8-20-91 Profile Analysis Date 5-03-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments :

Start Weight : 11.279 Final Weight : 11.260 Deviation : 0.168 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.632	23.375	87.158
0.50	0.707	0.060	0.533	0.533	2.75	0.149	1.084	9.627	96.785
0.75	0.595	0.117	1.039	1.572	3.00	0.125	0.295	2.620	99.405
1.00	0.500	0.321	2.851	4.423	3.25	0.105	0.047	0.417	99.822
1.25	0.420	0.479	4.254	8.677	3.50	0.088	0.007	0.062	99.885
1.50	0.354	0.560	4.973	13.650	3.75	0.074	0.004	0.036	99.920
1.75	0.297	1.073	9.529	23.179	4.00	0.063	0.006	0.053	99.973
2.00	0.250	2.847	25.284	48.464	4.25	0.053	0.003	0.027	100.000
2.25	0.210	1.725	15.320	63.783					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.423	44.041	51.510
Unified Classification	0.000	0.000	8.677	91.243

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.01	0.49	-0.61	3.65
Folk Graphic Measures (PHI)	2.03	2.02	0.48	-0.11	1.14
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 325 cm Date 8-20-91 Profile Analysis Date 5-03-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments :

Start Weight : 11.508 Final Weight : 11.521 Deviation : 0.113 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.627	22.802	88.734
0.50	0.707	0.082	0.712	0.712	2.75	0.149	0.977	8.480	97.214
0.75	0.595	0.115	1.172	1.884	3.00	0.125	0.274	2.378	99.592
1.00	0.500	0.340	2.951	4.835	3.25	0.105	0.036	0.312	99.905
1.25	0.420	0.532	4.618	9.452	3.50	0.088	0.006	0.052	99.957
1.50	0.354	0.586	5.086	14.539	3.75	0.074	0.003	0.026	99.983
1.75	0.297	1.089	9.452	23.991	4.00	0.063	0.002	0.017	100.000
2.00	0.250	3.025	26.256	50.247	4.25	0.053	0.000	0.000	100.000
2.25	0.210	1.807	15.684	65.932					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.835	45.413	49.753
Unified Classification	0.000	0.000	9.452	90.530

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.98	0.49	-0.69	3.59
Folk Graphic Measures (PHI)	2.00	1.99	0.48	-0.09	1.16
Grain Size (mm)	0.25	0.25			



Offshore Pensacola, FL (Pen-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 350 cm 8-20-91 TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments :

Start Weight : 11.247 Final Weight : 11.207 Deviation : 0.356 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.655	23.691	85.723
0.50	0.707	0.080	0.714	0.714	2.75	0.149	1.168	10.422	96.145
0.75	0.595	0.140	1.249	1.963	3.00	0.125	0.327	2.918	99.063
1.00	0.500	0.314	2.802	4.765	3.25	0.105	0.060	0.535	99.598
1.25	0.420	0.462	4.122	8.887	3.50	0.088	0.015	0.134	99.732
1.50	0.354	0.494	4.408	13.295	3.75	0.074	0.009	0.080	99.813
1.75	0.297	0.943	8.414	21.710	4.00	0.063	0.009	0.080	99.893
2.00	0.250	2.785	24.851	46.560	4.25	0.053	0.012	0.107	100.000
2.25	0.210	1.734	15.472	62.033					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.765	41.795	53.333	0.107	0.000
Unified Classification	0.000	0.000	8.887	90.925	0.187	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.03	0.51	-0.59	3.96
Folk Graphic Measures (PHI)	2.06	2.04	0.48	-0.14	1.16
Grain Size (mm)	0.24	0.25			

Offshore Pensacola, FL (Pen-91-12)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 375 cm 8-20-91 TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments :

Start Weight : 11.424 Final Weight : 11.407 Deviation : 0.149 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	3.036	26.615	84.054
0.50	0.707	0.089	0.780	0.780	2.75	0.149	1.342	11.765	95.818
0.75	0.595	0.115	1.008	1.788	3.00	0.125	0.374	3.279	99.097
1.00	0.500	0.261	2.288	4.076	3.25	0.105	0.065	0.570	99.667
1.25	0.420	0.367	3.217	7.294	3.50	0.088	0.014	0.123	99.790
1.50	0.354	0.414	3.629	10.923	3.75	0.074	0.007	0.061	99.851
1.75	0.297	0.804	7.048	17.971	4.00	0.063	0.009	0.079	99.930
2.00	0.250	2.710	23.757	41.729	4.25	0.053	0.008	0.070	100.000
2.25	0.210	1.792	15.710	57.438					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	4.076	37.652	58.201	0.070	0.000
Unified Classification	0.000	0.000	7.294	92.557	0.149	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.07	0.49	-0.76	4.32
Folk Graphic Measures (PHI)	2.13	2.10	0.46	-0.19	1.15
Grain Size (mm)	0.23	0.24			

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Offshore Pensacola, FL (Pen-91-12)

Locality Shelf Type Sand Sample 400 cm Date 8-20-91 Profile Analysis Date 5-03-93 Analyz TC/RM

X Position : 29:54.87 Y Position : 87:24.25

Elevation of Top of Core : 95'  
Length of Core : 434 cm  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments :

Start Weight : 11.238 Final Weight : 11.186 Deviation : 0.463 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	3.000	26.819	82.272
0.50	0.707	0.086	0.769	0.769	2.75	0.149	1.435	12.829	95.101
0.75	0.595	0.126	1.126	1.895	3.00	0.125	0.430	3.844	98.945
1.00	0.500	0.251	2.244	4.139	3.25	0.105	0.080	0.715	99.660
1.25	0.420	0.339	3.031	7.170	3.50	0.088	0.017	0.152	99.812
1.50	0.354	0.355	3.174	10.343	3.75	0.074	0.010	0.089	99.902
1.75	0.297	0.739	6.606	16.950	4.00	0.063	0.006	0.054	99.955
2.00	0.250	2.522	22.546	39.496	4.25	0.053	0.005	0.045	100.000
2.25	0.210	1.785	15.957	55.453					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.139	35.357	60.460	0.045	0.000
Unified Classification	0.000	0.000	7.170	92.732	0.098	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.10	0.50	-0.82	4.33
Folk Graphic Measures (PHI)	2.16	2.14	0.46	-0.20	1.16
Grain Size (mm)	0.22	0.23			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 5 cm Date 8-20-91 Profile Analysis Date 6-20-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 12.477 Final Weight : 12.489 Deviation : 0.096 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.729	13.844	74.946
0.00	1.000	0.040	0.320	0.320	2.50	0.177	2.160	17.295	92.241
0.25	0.841	0.072	0.577	0.897	2.75	0.149	0.737	5.901	98.142
0.50	0.707	0.078	0.625	1.521	3.00	0.125	0.169	1.353	99.496
0.75	0.595	0.136	1.089	2.610	3.25	0.105	0.038	0.304	99.800
1.00	0.500	0.431	3.451	6.061	3.50	0.088	0.011	0.088	99.888
1.25	0.420	0.743	5.949	12.011	3.75	0.074	0.007	0.056	99.944
1.50	0.354	0.814	6.678	18.688	4.00	0.063	0.003	0.024	99.968
1.75	0.297	1.450	11.610	30.299	4.25	0.053	0.004	0.032	100.000
2.00	0.250	3.847	30.803	61.102					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.061	55.040	38.866	0.032	0.000
Unified Classification	0.000	0.000	12.011	87.933	0.056	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.88	0.51	-0.69	4.28
Folk Graphic Measures (PHI)	1.914	1.90	0.50	-0.10	1.13
Grain Size (mm)	0.271	0.27			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 25 cm Date 8-20-91 Profile Analysis Date 6-22-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 12.181 Final Weight : 12.197 Deviation : 0.131 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.659	13.602	75.920
0.25	0.841	0.030	0.246	0.246	2.50	0.177	2.160	17.709	93.630
0.50	0.707	0.041	0.336	0.582	2.75	0.149	0.585	4.796	98.426
0.75	0.595	0.104	0.853	1.435	3.00	0.125	0.131	1.074	99.500
1.00	0.500	0.395	3.239	4.673	3.25	0.105	0.037	0.303	99.803
1.25	0.420	0.717	5.878	10.552	3.50	0.088	0.013	0.107	99.910
1.50	0.354	0.858	7.035	17.586	3.75	0.074	0.005	0.041	99.951
1.75	0.297	1.523	12.487	30.073	4.00	0.063	0.003	0.025	99.975
2.00	0.250	3.933	32.246	62.319	4.25	0.053	0.003	0.025	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.673	57.645	37.657	0.025	0.000
Unified Classification	0.000	0.000	10.552	89.399	0.049	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.89	0.47	-0.45	3.78
Folk Graphic Measures (PHI)	1.90	1.90	0.47	-0.07	1.09
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 50 cm Date 8-20-91 Profile Analysis Date 6-21-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 11.674 Final Weight : 11.649 Deviation : 0.214 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.561	13.400	77.277
0.25	0.841	0.076	0.652	0.652	2.50	0.177	1.918	16.465	93.742
0.50	0.707	0.073	0.627	1.279	2.75	0.149	0.558	4.790	98.532
0.75	0.595	0.141	1.210	2.489	3.00	0.125	0.129	1.107	99.639
1.00	0.500	0.444	3.811	6.301	3.25	0.105	0.029	0.249	99.888
1.25	0.420	0.813	6.979	13.280	3.50	0.088	0.007	0.060	99.948
1.50	0.354	0.895	7.683	20.963	3.75	0.074	0.004	0.034	99.983
1.75	0.297	1.551	13.314	34.278	4.00	0.063	0.002	0.017	100.000
2.00	0.250	3.448	29.599	63.877	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.301	57.576	36.123	0.000	0.000
Unified Classification	0.000	0.000	13.280	86.703	0.017	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.84	0.50	-0.57	3.64
Folk Graphic Measures (PHI)	1.88	1.86	0.50	-0.12	1.07
Grain Size (mm)	0.27	0.28			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 75 cm Date 8-20-91 Profile Analysis Date 6-20-93 Analyz SA/RM

X Position : 29:51.11 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 12.590 Final Weight : 12.612 Deviation : 0.175 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.850	14.669	75.428
0.00	1.000	0.030	0.238	0.238	2.50	0.177	2.230	17.682	93.110
0.25	0.841	0.047	0.373	0.611	2.75	0.149	0.665	5.273	98.382
0.50	0.707	0.056	0.444	1.055	3.00	0.125	0.153	1.213	99.596
0.75	0.595	0.100	0.793	1.847	3.25	0.105	0.036	0.285	99.881
1.00	0.500	0.388	3.076	4.924	3.50	0.088	0.007	0.056	99.937
1.25	0.420	0.739	5.859	10.783	3.75	0.074	0.004	0.032	99.968
1.50	0.354	0.875	6.938	17.721	4.00	0.063	0.003	0.024	99.992
1.75	0.297	1.531	12.139	29.860	4.25	0.053	0.001	0.008	100.000
2.00	0.250	3.897	30.899	60.760					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	4.924	55.836	39.232	0.008	0.000
Unified Classification	0.000	0.000	10.783	89.185	0.032	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.89	0.48	-0.66	4.21
Folk Graphic Measures (PHI)	1.91	1.91	0.47	-0.08	1.10
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 100 cm Date 8-20-91 Profile Analysis Date 6-21-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 11.917 Final Weight : 11.907 Deviation : 0.084 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.524	12.799	80.843
0.25	0.841	0.055	0.462	0.462	2.50	0.177	1.689	14.185	95.028
0.50	0.707	0.091	0.764	1.226	2.75	0.149	0.465	3.905	98.933
0.75	0.595	0.141	1.184	2.410	3.00	0.125	0.095	0.798	99.731
1.00	0.500	0.488	4.098	6.509	3.25	0.105	0.023	0.193	99.924
1.25	0.420	0.883	7.416	13.925	3.50	0.088	0.005	0.042	99.966
1.50	0.354	1.017	8.541	22.466	3.75	0.074	0.002	0.017	99.983
1.75	0.297	1.706	14.328	36.793	4.00	0.063	0.000	0.000	99.983
2.00	0.250	3.721	31.251	68.044	4.25	0.053	0.002	0.017	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	6.509	61.535	31.939	0.017	0.000
Unified Classification	0.000	0.000	13.925	86.059	0.017	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.81	0.49	-0.52	3.59
Folk Graphic Measures (PHI)	1.86	1.82	0.49	-0.14	1.10
Grain Size (mm)	0.28	0.29			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 125 cm Date 8-20-91 Profile Analysis Date 6-22-93 Analyz SA/RH

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 12.167 Final Weight : 12.183 Deviation : 0.132 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.761	14.455	71.956
0.25	0.841	0.035	0.287	0.287	2.50	0.177	2.271	18.641	92.596
0.50	0.707	0.030	0.246	0.534	2.75	0.149	0.678	5.565	98.161
0.75	0.595	0.077	0.632	1.166	3.00	0.125	0.160	1.313	99.475
1.00	0.500	0.301	2.471	3.636	3.25	0.105	0.045	0.369	99.844
1.25	0.420	0.643	5.278	8.914	3.50	0.088	0.011	0.090	99.934
1.50	0.354	0.817	6.706	15.620	3.75	0.074	0.005	0.041	99.975
1.75	0.297	1.503	12.337	27.957	4.00	0.063	0.003	0.025	100.000
2.00	0.250	3.843	31.544	59.501	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.636	55.865	40.499	0.000	0.000
Unified Classification	0.000	0.000	8.914	91.061	0.025	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.92	0.46	-0.47	3.84
Folk Graphic Measures (PHI)	1.92	1.94	0.45	-0.03	1.10
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 150 cm Date 8-20-91 Profile Analysis Date 6-21-93 Analyz SA/RH

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 12.178 Final Weight : 12.163 Deviation : 0.123 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.731	14.232	75.952
0.25	0.841	0.062	0.510	0.510	2.50	0.177	2.137	17.570	93.521
0.50	0.707	0.063	0.518	1.028	2.75	0.149	0.594	4.884	98.405
0.75	0.595	0.138	1.135	2.162	3.00	0.125	0.141	1.159	99.564
1.00	0.500	0.421	3.461	5.624	3.25	0.105	0.038	0.312	99.877
1.25	0.420	0.772	6.347	11.971	3.50	0.088	0.007	0.058	99.934
1.50	0.354	0.916	7.531	19.502	3.75	0.074	0.004	0.033	99.967
1.75	0.297	1.533	12.604	32.106	4.00	0.063	0.003	0.025	99.992
2.00	0.250	3.602	29.614	61.720	4.25	0.053	0.001	0.008	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.624	56.096	38.272	0.008	0.000
Unified Classification	0.000	0.000	11.971	87.996	0.033	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.87	0.49	-0.56	3.72
Folk Graphic Measures (PHI)	1.90	1.88	0.49	-0.11	1.06
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 175 cm Date 8-20-91 Profile Analysis Date 6-21-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 12.354 Final Weight : 12.342 Deviation : 0.097 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.502	12.170	82.296
0.25	0.841	0.088	0.713	0.713	2.50	0.177	1.657	13.426	95.722
0.50	0.707	0.107	0.867	1.580	2.75	0.149	0.406	3.290	99.012
0.75	0.595	0.212	1.718	3.298	3.00	0.125	0.086	0.697	99.708
1.00	0.500	0.617	4.999	8.297	3.25	0.105	0.028	0.227	99.935
1.25	0.420	1.069	8.661	16.958	3.50	0.088	0.005	0.041	99.976
1.50	0.354	1.101	8.921	25.879	3.75	0.074	0.003	0.024	100.000
1.75	0.297	1.742	14.114	39.994	4.00	0.063	0.000	0.000	100.000
2.00	0.250	3.719	30.133	70.126	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	8.297	61.830	29.874	0.000	0.000
Unified Classification	0.000	0.000	16.958	83.042	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.77	0.51	-0.53	3.36
Folk Graphic Measures (PHI)	1.83	1.78	0.52	-0.18	1.08
Grain Size (mm)	0.28	0.29			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 200 cm Date 8-20-91 Profile Analysis Date 6-22-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 12.450 Final Weight : 12.493 Deviation : 0.345 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.681	13.456	77.692
0.25	0.841	0.044	0.352	0.352	2.50	0.177	2.002	16.025	93.716
0.50	0.707	0.065	0.520	0.872	2.75	0.149	0.575	4.603	98.319
0.75	0.595	0.161	1.289	2.161	3.00	0.125	0.149	1.193	99.512
1.00	0.500	0.501	4.010	6.171	3.25	0.105	0.045	0.160	99.872
1.25	0.420	0.803	6.428	12.599	3.50	0.088	0.011	0.088	99.960
1.50	0.354	0.994	7.956	20.556	3.75	0.074	0.003	0.024	99.984
1.75	0.297	1.607	12.863	33.419	4.00	0.063	0.002	0.016	100.000
2.00	0.250	3.850	30.817	64.236	4.25	0.053	0.000	0.000	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.171	58.065	35.764	0.000	0.000
Unified Classification	0.000	0.000	12.599	87.385	0.016	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.85	0.49	-0.49	3.52
Folk Graphic Measures (PHI)	1.88	1.86	0.50	-0.12	1.10
Grain Size (mm)	0.27	0.28			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf	Type Sand	Sample 225 cm	Date 8-20-91	Profile	Analysis Date 6-21-93	Analyz SA/RM
X Position : 29:51.31 Y Position : 87:29.39						
Elevation of Top of Core : 102'						
Length of Core : 193 cm						
Depth to Top of Sample : 220 cm						
Depth to Bottom of Sample : 230 cm						
Comments : Thuy Bul						
Start Weight : 12.022 Final Weight : 12.034 Deviation : 0.100 %						

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
0.00	1.000	0.000	0.000	0.000	76.915	2.25	0.210	1.509	12.539	76.915	
0.25	0.841	0.130	1.080	1.080	1.952	2.50	0.177	1.952	16.221	93.136	
0.50	0.707	0.150	1.246	2.327	5.071	2.75	0.149	0.611	5.071	98.213	
0.75	0.595	0.241	2.003	4.329	1.271	3.00	0.125	0.153	1.271	99.483	
1.00	0.500	0.616	5.119	9.448	0.324	3.25	0.105	0.039	0.324	99.809	
1.25	0.420	0.903	7.504	16.952	0.009	3.50	0.080	0.009	0.009	99.884	
1.50	0.354	0.947	7.869	24.821	0.004	3.75	0.074	0.004	0.004	99.925	
1.75	0.297	1.469	12.207	37.028	0.004	4.00	0.063	0.004	0.004	99.958	
2.00	0.250	3.291	27.348	64.376	0.005	4.25	0.053	0.005	0.005	100.000	

Sample Content by Weight Percent :

Gravel				Sand				Silt				Clay			
				coarse	medium	fine									
Wentworth Classification				0.000	9.448	54.928	35.583	0.042	0.000						
Unified Classification				0.000	0.000	16.952	82.973	0.075	0.000						
Standard Statistics :															
				Median		Mean	Dev.	Skew	Kurt						
Method of Moments (PHI)						1.87	1.81	-0.55	3.44						
Folk Graphic Measures (PHI)						0.27	0.56	-0.17	1.05						
Grain Size (mm)							0.29								

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf	Type Sand	Sample 250 cm	Date 8-20-91	Profile	Analysis Date 6-28-93	Analyz SA/RM
X Position : 29:51.31 Y Position : 87:29.39						
Elevation of Top of Core : 102'						
Length of Core : 193 cm						
Depth to Top of Sample : 245 cm						
Depth to Bottom of Sample : 255 cm						
Comments : Thuy Bul						
Start Weight : 12.263 Final Weight : 12.208 Deviation : 0.449 %						

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.169	0.000	0.000	0.000	2.25	0.210	1.836	15.039	64.318		
0.00	1.000	0.038	0.317	0.317	2.50	0.177	2.936	24.066	88.385		
0.25	0.841	0.032	0.263	0.580	2.75	0.149	1.025	8.396	96.781		
0.50	0.707	0.043	0.352	0.932	3.00	0.125	0.295	2.416	99.197		
0.75	0.595	0.092	0.744	1.676	3.25	0.105	0.063	0.516	99.713		
1.00	0.500	0.246	2.013	3.690	3.50	0.080	0.014	0.115	99.828		
1.25	0.420	0.514	4.210	8.904	3.75	0.074	0.010	0.082	99.910		
1.50	0.354	0.611	5.005	13.973	4.00	0.063	0.008	0.066	99.975		
1.75	0.297	1.049	8.655	21.746	4.25	0.053	0.003	0.025	100.000		
2.00	0.250	3.361	27.531	49.279							

Sample Content by Weight Percent :

Gravel				Sand				Silt				Clay			
				coarse	medium	fine									
Wentworth Classification				0.000	3.858	45.421	50.696	0.025	0.000						
Unified Classification				0.000	0.000	8.068	91.841	0.090	0.000						
Standard Statistics :															
				Median		Mean	Dev.	Skew	Kurt						
Method of Moments (PHI)						2.01	0.49	-0.69	4.39						
Folk Graphic Measures (PHI)						2.01	2.02	0.46	-0.07						
Grain Size (mm)						0.25	0.25								

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 275 cm Date 8-20-91 Profile Analysis Date 6-18-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 12.351 Final Weight : 12.433 Deviation : 0.664 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	3.096	24.901	47.221
-0.25	1.189	0.024	0.193	0.193	2.25	0.210	1.789	14.389	61.610
0.00	1.000	0.049	0.394	0.587	2.50	0.177	3.013	24.234	85.844
0.25	0.841	0.068	0.547	1.134	2.75	0.149	1.230	9.893	95.737
0.50	0.707	0.059	0.475	1.609	3.00	0.125	0.378	3.040	98.777
0.75	0.595	0.125	1.005	2.614	3.25	0.105	0.098	0.788	99.566
1.00	0.500	0.330	2.654	5.268	3.50	0.088	0.025	0.201	99.767
1.25	0.420	0.521	4.190	9.459	3.75	0.074	0.009	0.072	99.839
1.50	0.354	0.530	4.263	13.722	4.00	0.063	0.007	0.056	99.895
1.75	0.297	1.069	8.598	22.320	4.25	0.053	0.013	0.105	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.268	41.953	52.674	0.105	0.000
Unified Classification	0.000	0.000	9.459	90.380	0.161	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.01	0.55	-0.91	5.08
Folk Graphic Measures (PHI)		2.03	0.49	-0.14	1.18
Grain Size (mm)	0.24	0.25			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 300 cm Date 8-20-91 Profile Analysis Date 6-20-91 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 12.203 Final Weight : 12.220 Deviation : 0.139 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.613	13.200	68.576
0.00	1.000	0.072	0.589	0.589	2.50	0.177	2.563	20.974	89.550
0.25	0.841	0.089	0.728	1.318	2.75	0.149	0.913	7.471	97.021
0.50	0.707	0.108	0.884	2.201	3.00	0.125	0.265	2.169	99.190
0.75	0.595	0.195	1.596	3.797	3.25	0.105	0.053	0.434	99.624
1.00	0.500	0.469	3.838	7.635	3.50	0.088	0.025	0.205	99.828
1.25	0.420	0.698	5.712	13.347	3.75	0.074	0.016	0.131	99.959
1.50	0.354	0.725	5.933	19.280	4.00	0.063	0.002	0.016	99.975
1.75	0.297	1.160	9.493	28.773	4.25	0.053	0.003	0.025	100.000
2.00	0.250	3.251	26.604	55.376					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	7.635	47.741	44.599	0.025	0.000
Unified Classification	0.000	0.000	13.347	86.612	0.041	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.91	0.57	-0.79	4.09
Folk Graphic Measures (PHI)		1.92	0.55	-0.15	1.12
Grain Size (mm)	0.26	0.27			



Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 350 cm Date 8-20-91 Profile Analysis Date 6-20-93 Analyst SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 12.576 Final Weight : 12.597 Deviation : 0.167 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.925	15.281	49.837
0.00	1.000	0.092	0.730	0.730	2.50	0.177	3.756	29.817	79.654
0.25	0.841	0.064	0.508	1.238	2.75	0.149	1.786	14.178	93.832
0.50	0.707	0.039	0.310	1.548	3.00	0.125	0.606	4.811	98.643
0.75	0.595	0.058	0.460	2.008	3.25	0.105	0.118	0.937	99.579
1.00	0.500	0.160	1.270	3.279	3.50	0.088	0.025	0.198	99.778
1.25	0.420	0.238	1.889	5.168	3.75	0.074	0.012	0.095	99.873
1.50	0.354	0.300	2.382	7.549	4.00	0.063	0.007	0.056	99.929
1.75	0.297	0.634	5.033	12.582	4.25	0.053	0.009	0.071	100.000
2.00	0.250	2.768	21.973	34.556					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.279	31.277	65.373
Unified Classification	0.000	0.000	5.168	94.705

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.15	0.51	-1.33	7.06
Folk Graphic Measures (PHI)	2.25	2.21	0.44	-0.23	1.14
Grain Size (mm)	0.21	0.23			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 363 cm Date 8-20-91 Profile Analysis Date 9-1-93 Analyst TB/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 360 cm  
Depth to Bottom of Sample : 365 cm

Comments : Thuy Bui

Start Weight : 12.056 Final Weight : 12.041 Deviation : 0.124 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.590	4.900	11.494
0.00	1.000	0.061	0.507	0.507	2.00	0.250	2.642	21.942	33.436
0.25	0.841	0.031	0.257	0.764	2.25	0.210	1.884	15.647	49.082
0.50	0.707	0.028	0.233	0.997	2.50	0.177	3.591	29.823	78.905
0.75	0.595	0.045	0.374	1.370	2.75	0.149	1.803	14.974	93.879
1.00	0.500	0.132	1.096	2.467	3.00	0.125	0.582	4.833	98.713
1.25	0.420	0.222	1.844	4.310	3.25	0.105	0.116	0.963	99.676
1.50	0.354	0.275	2.284	6.594	3.50	0.088	0.039	0.324	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	2.467	30.969	66.564
Unified Classification	0.000	0.000	4.310	95.690

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.17	0.47	-1.27	6.76
Folk Graphic Measures (PHI)	2.26	2.21	0.42	-0.21	1.08
Grain Size (mm)	0.21	0.22			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 168 cm Date 8-20-91 Profile Analysis Date 7-1-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 363 cm  
Depth to Bottom of Sample : 373 cm

Comments : Thuy Bui

Start Weight : 12.585 Final Weight : 12.489 Deviation : 0.763 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	3.006	24.069	38.049
-0.25	1.189	0.032	0.256	0.256	2.25	0.210	1.954	15.646	53.695
0.00	1.000	0.038	0.304	0.560	2.50	0.177	3.641	29.154	82.849
0.25	0.841	0.044	0.352	0.913	2.75	0.149	1.554	12.443	95.292
0.50	0.707	0.052	0.416	1.329	3.00	0.125	0.468	3.747	99.039
0.75	0.595	0.066	0.528	1.858	3.25	0.105	0.084	0.673	99.712
1.00	0.500	0.188	1.505	3.363	3.50	0.088	0.019	0.152	99.864
1.25	0.420	0.283	2.266	5.629	3.75	0.074	0.008	0.064	99.928
1.50	0.354	0.315	2.522	8.151	4.00	0.063	0.006	0.048	99.976
1.75	0.297	0.728	5.829	13.980	4.25	0.053	0.003	0.024	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	3.363	34.687	61.926	0.024	0.000
Unified Classification	0.000	0.000	5.629	94.299	0.072	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.11	0.49	-1.30	6.89
Folk Graphic Measures (PHI)	2.19	2.16	0.42	-0.20	1.13
Grain Size (mm)	0.22	0.23			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 169 cm Date 8-20-91 Profile Analysis Date 9-2-93 Analyz TD/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 365 cm  
Depth to Bottom of Sample : 370 cm

Comments : Thuy Bui

Start Weight : 12.156 Final Weight : 12.143 Deviation : 0.107 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.631	5.196	12.312
0.00	1.000	0.051	0.420	0.420	2.00	0.250	2.558	21.066	33.377
0.25	0.841	0.025	0.206	0.626	2.25	0.210	1.962	16.157	49.535
0.50	0.707	0.041	0.338	0.964	2.50	0.177	3.611	29.737	79.272
0.75	0.595	0.055	0.453	1.416	2.75	0.149	1.829	15.062	94.334
1.00	0.500	0.139	1.145	2.561	3.00	0.125	0.573	4.719	99.053
1.25	0.420	0.237	1.952	4.513	3.25	0.105	0.092	0.758	99.811
1.50	0.354	0.316	2.602	7.115	3.50	0.088	0.023	0.189	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	2.561	30.816	66.623	0.000	0.000
Unified Classification	0.000	0.000	4.513	95.487	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.16	0.47	-1.26	6.39
Folk Graphic Measures (PHI)	2.25	2.21	0.42	-0.23	1.08
Grain Size (mm)	0.21	0.22			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 373 cm Date 8-20-91 Profile Analysis Date 9-1-93 Analyz TH/RM  
X Position : 29:51.31 Y Position : 87:29.39  
Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 375 cm

Comments : Thuy Bui

Start Weight : 12.011 Final Weight : 11.979 Deviation : 0.266 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.851	7.104	14.459
0.00	1.000	0.011	0.092	0.092	2.00	0.250	3.014	25.161	39.619
0.25	0.841	0.012	0.100	0.192	2.25	0.210	1.868	15.594	55.213
0.50	0.707	0.012	0.100	0.292	2.50	0.177	3.239	27.039	82.252
0.75	0.595	0.033	0.275	0.568	2.75	0.149	1.557	12.998	95.250
1.00	0.500	0.116	1.135	1.703	3.00	0.125	0.479	3.999	99.249
1.25	0.420	0.292	2.438	4.141	3.25	0.105	0.073	0.609	99.858
1.50	0.354	0.386	3.214	7.355	3.50	0.088	0.017	0.142	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	1.703	37.916	60.381	0.000	0.000	
Unified Classification	0.000	0.000	4.141	95.859	0.000	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.12	0.44	-0.71	4.40
Folk Graphic Measures (PHI)	2.17	2.16	0.41	-0.12	1.01
Grain Size (mm)	0.22	0.23			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 375 cm Date 8-20-91 Profile Analysis Date 6-21-93 Analyz SA/RM  
X Position : 29:51.31 Y Position : 87:29.39  
Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bui

Start Weight : 11.986 Final Weight : 12.034 Deviation : 0.400 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.887	15.681	49.119
0.25	0.841	0.024	0.199	0.199	2.50	0.177	3.679	30.572	79.691
0.50	0.707	0.032	0.266	0.465	2.75	0.149	1.635	13.587	93.277
0.75	0.595	0.052	0.432	0.897	3.00	0.125	0.600	4.986	98.263
1.00	0.500	0.122	1.014	1.911	3.25	0.105	0.141	1.172	99.435
1.25	0.420	0.201	1.670	3.582	3.50	0.088	0.031	0.258	99.693
1.50	0.354	0.294	2.443	6.025	3.75	0.074	0.011	0.091	99.784
1.75	0.297	0.633	5.260	11.285	4.00	0.063	0.012	0.100	99.884
2.00	0.250	2.666	22.154	33.439	4.25	0.053	0.014	0.116	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	1.911	31.527	66.445	0.116	0.000	
Unified Classification	0.000	0.000	3.582	96.202	0.216	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.18	0.45	-0.65	5.32
Folk Graphic Measures (PHI)	2.26	2.21	0.41	-0.18	1.06
Grain Size (mm)	0.21	0.22			

## Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 377 cm Date 8-20-91 Profile Analysis Date 9-1-93 Analyz TU/HH  
 X Position : 29:51.31 Y Position : 87:29.39  
 Elevation of Top of Core : 102'  
 Length of Core : 393 cm  
 Depth to Top of Sample : 375 cm  
 Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight :	12.139	Final Weight :	12.097	Deviation :	0.046 %
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.032	0.265	0.265	15.649
0.25	0.841	0.047	0.389	0.655	39.634
0.50	0.707	0.041	0.339	0.992	59.846
0.75	0.595	0.069	0.570	1.562	81.406
1.00	0.500	0.183	1.523	3.082	94.825
1.25	0.420	0.313	2.604	5.696	99.082
1.50	0.354	0.409	3.361	9.077	99.810
					100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	silt	clay
Wentworth Classification	0.000	3.092	36.563	60.346	0.000	0.000	0.000
Unified Classification	0.000	0.000	5.696	94.304	0.000	0.000	0.000
Standard Statistics :			Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.17	2.11	0.49	-1.04	5.29
Folk Graphic Measures (PHI)			0.22	2.16	0.44	-0.15	1.09
Grain Size (mm)				0.23			

## Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 378 cm Date 8-20-91 Profile Analysis Date 7-1-93 Analyz BA/HH  
 X Position : 29:51.31 Y Position : 87:29.39  
 Elevation of Top of Core : 102'  
 Length of Core : 393 cm  
 Depth to Top of Sample : 373 cm  
 Depth to Bottom of Sample : 383 cm

Comments : Thuy Bul

Start Weight :	12.416	Final Weight :	12.395	Deviation :	0.169 %
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	0.000
-0.25	1.189	0.017	0.137	0.137	1.036
0.00	1.000	0.019	0.153	0.290	2.353
0.25	0.841	0.040	0.323	0.613	4.919
0.50	0.707	0.040	0.323	0.936	7.442
0.75	0.595	0.067	0.541	1.476	11.798
1.00	0.500	0.171	1.360	2.856	22.742
1.25	0.420	0.276	2.227	5.083	39.742
1.50	0.354	0.385	3.106	8.189	64.855
1.75	0.297	0.783	6.317	14.506	114.855
					100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	silt	clay
Wentworth Classification	0.000	2.856	36.144	60.936	0.065	0.000	0.000
Unified Classification	0.000	0.000	5.083	94.772	0.145	0.000	0.000
Standard Statistics :			Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.18	2.12	0.48	-0.98	6.13
Folk Graphic Measures (PHI)			0.22	2.15	0.42	-0.18	1.09
Grain Size (mm)				0.23			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 383 cm Date 8-20-91 Profile Analysis Date 9-2-93 Analyz TR/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 380 cm  
Depth to Bottom of Sample : 385 cm

Comments : Thuy Bui

Start Weight : 12.116 Final Weight : 12.086 Deviation : 0.248 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.511	4.228	8.679
0.00	1.000	0.033	0.273	0.273	2.00	0.250	2.368	19.593	28.272
0.25	0.841	0.013	0.108	0.381	2.25	0.210	1.908	15.787	44.059
0.50	0.707	0.013	0.108	0.488	2.50	0.177	3.770	31.193	75.252
0.75	0.595	0.023	0.190	0.678	2.75	0.149	2.166	17.922	93.174
1.00	0.500	0.080	0.662	1.340	3.00	0.125	0.682	5.643	98.817
1.25	0.420	0.154	1.274	2.615	3.25	0.105	0.119	0.985	99.801
1.50	0.354	0.222	1.837	4.451	3.50	0.088	0.024	0.199	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.340	26.932	71.728	0.000	0.000
Unified Classification	0.000	0.000	2.615	97.385	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.42	-1.13	6.61
Folk Graphic Measures (PHI)	2.30	2.25	0.39	-0.17	0.99
Grain Size (mm)	0.20	0.21			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 385 cm Date 8-20-91 Profile Analysis Date 6-20-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 380 cm  
Depth to Bottom of Sample : 390 cm

Comments : Thuy Bui

Start Weight : 12.548 Final Weight : 12.569 Deviation : 0.167 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.986	15.801	50.115
0.00	1.000	0.050	0.398	0.398	2.50	0.177	3.636	28.928	79.044
0.25	0.841	0.082	0.652	1.050	2.75	0.149	1.779	14.154	93.198
0.50	0.707	0.047	0.374	1.424	3.00	0.125	0.675	5.370	98.568
0.75	0.595	0.072	0.573	1.997	3.25	0.105	0.132	1.050	99.618
1.00	0.500	0.157	1.249	3.246	3.50	0.088	0.026	0.207	99.825
1.25	0.420	0.250	1.989	5.235	3.75	0.074	0.012	0.095	99.920
1.50	0.354	0.301	2.395	7.630	4.00	0.063	0.006	0.048	99.968
1.75	0.297	0.654	5.203	12.833	4.25	0.053	0.004	0.032	100.000
2.00	0.250	2.700	21.481	34.315					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.246	31.069	65.654	0.032	0.000
Unified Classification	0.000	0.000	5.235	94.685	0.080	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.15	0.50	-1.23	6.43
Folk Graphic Measures (PHI)	2.25	2.21	0.44	-0.21	1.15
Grain Size (mm)	0.21	0.22			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 387 cm Date 8-20-91 Profile Analysis Date 9-1-93 Analyz TB/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 385 cm  
Depth to Bottom of Sample : 390 cm

Comments : Thuy Bul

Start Weight : 12.065 Final Weight : 12.049 Deviation : 0.133 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.563	4.673	10.482
0.00	1.000	0.035	0.290	0.290	2.00	0.250	2.423	20.110	30.592
0.25	0.841	0.031	0.257	0.548	2.25	0.210	1.838	15.254	45.846
0.50	0.707	0.025	0.207	0.755	2.50	0.177	3.579	29.704	75.550
0.75	0.595	0.044	0.365	1.120	2.75	0.149	2.072	17.196	92.746
1.00	0.500	0.118	0.979	2.100	3.00	0.125	0.707	5.868	98.614
1.25	0.420	0.192	1.593	3.693	3.25	0.105	0.124	1.029	99.643
1.50	0.354	0.255	2.116	5.810	3.50	0.088	0.043	0.357	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	2.100	28.492	69.408	0.000	0.000
Unified Classification	0.000	0.000	3.693	96.307	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.21	0.46	-1.17	6.33
Folk Graphic Measures (PHI)	2.28	2.24	0.42	-0.19	1.05
Grain Size (mm)	0.21	0.22			

Offshore Pensacola, FL (PEN-91-13)

Locality Shelf Type Sand Sample 388 cm Date 8-20-91 Profile Analysis Date 7-1-93 Analyz SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 393 cm  
Depth to Top of Sample : 383 cm  
Depth to Bottom of Sample : 393 cm

Comments : Thuy Bul

Start Weight : 12.327 Final Weight : 12.282 Deviation : 0.365 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	3.088	25.142	36.663
-0.25	1.189	0.021	0.171	0.171	2.25	0.210	1.774	14.444	51.107
0.00	1.000	0.021	0.171	0.342	2.50	0.177	3.990	32.487	83.594
0.25	0.841	0.035	0.285	0.627	2.75	0.149	1.395	11.358	94.952
0.50	0.707	0.035	0.285	0.912	3.00	0.125	0.508	4.136	99.088
0.75	0.595	0.051	0.415	1.327	3.25	0.105	0.084	0.684	99.772
1.00	0.500	0.130	1.058	2.386	3.50	0.088	0.021	0.171	99.943
1.25	0.420	0.205	1.669	4.055	3.75	0.074	0.000	0.000	99.943
1.50	0.354	0.275	2.239	6.294	4.00	0.061	0.004	0.033	99.976
1.75	0.297	0.642	5.227	11.521	4.25	0.053	0.003	0.024	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	2.386	34.278	63.312	0.024	0.000
Unified Classification	0.000	0.000	4.055	95.888	0.057	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.45	-1.24	7.16
Folk Graphic Measures (PHI)	2.23	2.18	0.39	-0.24	1.04
Grain Size (mm)	0.21	0.23			

Offshore Pensacola, FL (PEN-91-13)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 193 cm 8-20-91 87:29.39 9-1-93 TB/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 193 cm  
Depth to Top of Sample : 190 cm  
Depth to Bottom of Sample : 195 cm

Comments : Thuy Bui

Start Weight : 12.333 Final Weight : 12.299 Deviation : 0.276 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.260	2.114	6.196
0.00	1.000	0.027	0.220	0.220	2.00	0.250	0.611	4.968	11.164
0.25	0.841	0.026	0.211	0.431	2.25	0.210	2.603	21.164	32.328
0.50	0.707	0.022	0.179	0.610	2.50	0.177	1.882	15.302	47.630
0.75	0.595	0.023	0.187	0.797	2.75	0.149	3.655	29.718	77.348
1.00	0.500	0.052	0.423	1.220	3.00	0.125	1.931	15.700	93.048
1.25	0.420	0.130	1.057	2.277	3.25	0.105	0.713	5.797	98.845
1.50	0.354	0.222	1.805	4.082	3.50	0.088	0.142	1.155	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.220	9.944	88.836	0.000	0.000
Unified Classification	0.000	0.000	2.277	97.723	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.43	0.47	-1.31	6.98
Folk Graphic Measures (PHI)	2.52	2.48	0.42	-0.20	1.07
Grain Size (mm)	0.17	0.18			

Offshore Pensacola, FL (PEN-91-13)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 194 cm 8-20-91 87:29.39 6-29-93 SA/RM

X Position : 29:51.31 Y Position : 87:29.39

Elevation of Top of Core : 102'  
Length of Core : 193 cm  
Depth to Top of Sample : 189 cm  
Depth to Bottom of Sample : 199 cm

Comments : Thuy Bui

Start Weight : 12.309 Final Weight : 12.219 Deviation : 0.731 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	1.750	14.322	45.225
0.25	0.841	0.028	0.229	0.229	2.50	0.177	3.970	32.490	77.715
0.50	0.707	0.032	0.262	0.491	2.75	0.149	1.808	14.797	92.512
0.75	0.595	0.051	0.417	0.908	3.00	0.125	0.725	5.933	98.445
1.00	0.500	0.114	0.933	1.841	3.25	0.105	0.134	1.097	99.542
1.25	0.420	0.200	1.637	3.478	3.50	0.088	0.027	0.221	99.763
1.50	0.354	0.227	1.858	5.336	3.75	0.074	0.014	0.115	99.877
1.75	0.297	0.538	4.403	9.739	4.00	0.063	0.008	0.065	99.943
2.00	0.250	2.586	21.164	30.903	4.25	0.053	0.007	0.057	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.841	29.061	69.040	0.057	0.000
Unified Classification	0.000	0.000	3.478	96.399	0.123	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.21	0.44	-0.83	5.52
Folk Graphic Measures (PHI)	2.29	2.24	0.41	-0.19	1.05
Grain Size (mm)	0.20	0.22			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 5 cm Date 8-23-92 Profile Analysis Date 6-17-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.424 Final Weight : 11.386 Deviation : 0.333 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.300	20.200	65.510
0.50	0.707	0.024	0.211	0.211	2.75	0.149	1.707	14.992	80.502
0.75	0.595	0.062	0.545	0.755	3.00	0.125	1.149	10.091	90.594
1.00	0.500	0.263	2.310	3.065	3.25	0.105	0.648	5.691	96.285
1.25	0.420	0.390	3.425	6.490	3.50	0.088	0.190	1.669	97.954
1.50	0.354	0.409	3.592	10.083	3.75	0.074	0.096	0.843	98.797
1.75	0.297	0.716	6.288	16.371	4.00	0.063	0.048	0.422	99.218
2.00	0.250	1.928	16.933	33.304	4.25	0.053	0.089	0.782	100.000
2.25	0.210	1.367	12.006	45.310					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.065	30.239	65.914
Unified Classification	0.000	0.000	6.490	92.306

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.26	0.61	-0.11	3.45
Folk Graphic Measures (PHI)	2.31	2.29	0.59	-0.09	1.08
Grain Size (mm)	0.20	0.21			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 25 cm Date 8-23-92 Profile Analysis Date 6-17-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.205 Final Weight : 11.149 Deviation : 0.500 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.463	22.092	57.081
0.50	0.707	0.006	0.054	0.054	2.75	0.149	1.825	16.369	73.451
0.75	0.595	0.033	0.296	0.350	3.00	0.125	1.442	12.934	86.384
1.00	0.500	0.121	1.085	1.435	3.25	0.105	0.908	8.144	94.529
1.25	0.420	0.222	1.991	3.426	3.50	0.088	0.275	2.467	96.995
1.50	0.354	0.254	2.278	5.705	3.75	0.074	0.141	1.265	98.260
1.75	0.297	0.463	4.153	9.857	4.00	0.063	0.065	0.583	98.843
2.00	0.250	1.529	13.714	23.572	4.25	0.053	0.129	1.157	100.000
2.25	0.210	1.273	11.418	34.990					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.435	22.137	75.271
Unified Classification	0.000	0.000	3.426	94.834

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.41	0.58	-0.04	3.68
Folk Graphic Measures (PHI)	2.42	2.41	0.56	-0.04	1.03
Grain Size (mm)	0.19	0.19			



Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 50 cm 8-23-92 TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.025 Final Weight : 10.957 Deviation : 0.617 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.245	20.489	62.179
0.50	0.707	0.017	0.155	0.155	2.75	0.149	1.733	15.816	77.996
0.75	0.595	0.088	0.803	0.958	3.00	0.125	1.219	11.125	89.121
1.00	0.500	0.251	2.291	3.249	3.25	0.105	0.695	6.343	95.464
1.25	0.420	0.357	3.258	6.507	3.50	0.088	0.213	1.944	97.408
1.50	0.354	0.362	3.304	9.811	3.75	0.074	0.105	0.958	98.366
1.75	0.297	0.605	5.522	15.333	4.00	0.063	0.051	0.465	98.832
2.00	0.250	1.714	15.643	30.976	4.25	0.053	0.128	1.168	100.000
2.25	0.210	1.174	10.715	41.690					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.249	27.727	67.856	1.168	0.000
Unified Classification	0.000	0.000	6.507	91.859	1.634	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.30	0.63	-0.13	3.51
Folk Graphic Measures (PHI)	2.35	2.33	0.60	-0.11	1.08
Grain Size (mm)	0.20	0.20			

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 75 cm 8-23-92 TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.577 Final Weight : 11.484 Deviation : 0.803 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.457	21.395	65.282
0.50	0.707	0.036	0.313	0.313	2.75	0.149	1.829	15.927	81.209
0.75	0.595	0.079	0.688	1.001	3.00	0.125	1.155	10.057	91.266
1.00	0.500	0.197	1.715	2.717	3.25	0.105	0.648	5.643	96.909
1.25	0.420	0.285	2.482	5.199	3.50	0.088	0.188	1.637	98.546
1.50	0.354	0.339	2.952	8.150	3.75	0.074	0.081	0.705	99.251
1.75	0.297	0.637	5.547	13.697	4.00	0.063	0.039	0.340	99.591
2.00	0.250	1.968	17.137	30.834	4.25	0.053	0.047	0.409	100.000
2.25	0.210	1.499	13.053	43.887					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.717	28.117	68.757	0.409	0.000
Unified Classification	0.000	0.000	5.199	94.053	0.749	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.28	0.57	-0.26	3.70
Folk Graphic Measures (PHI)	2.32	2.31	0.55	-0.08	1.08
Grain Size (mm)	0.20	0.21			

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 100 cm 8-23-92 87:07.88 6-20-94 TB/RM

X Position : 30:13.23

Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 11.522 Final Weight : 11.465 Deviation : 0.495 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.329	20.314	70.179
0.50	0.707	0.065	0.567	0.567	2.75	0.149	1.436	12.525	82.704
0.75	0.595	0.112	0.977	1.544	3.00	0.125	1.071	9.341	92.045
1.00	0.500	0.258	2.250	3.794	3.25	0.105	0.586	5.111	97.157
1.25	0.420	0.411	3.585	7.379	3.50	0.088	0.158	1.378	98.535
1.50	0.354	0.454	3.960	11.339	3.75	0.074	0.070	0.611	99.145
1.75	0.297	0.788	6.873	18.212	4.00	0.063	0.044	0.384	99.529
2.00	0.250	2.078	18.125	36.337	4.25	0.053	0.054	0.471	100.000
2.25	0.210	1.551	13.528	49.865					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	3.794	32.543	63.192
Unified Classification	0.000	0.000	7.379	91.766

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.20	0.61	-0.20	3.51
Folk Graphic Measures (PHI)	2.25	2.24	0.59	-0.09	1.12
Grain Size (mm)	0.21	0.22			

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 125 cm 8-23-92 87:07.88 6-20-94 TH/RM

X Position : 30:13.23

Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 11.398 Final Weight : 11.349 Deviation : 0.430 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.320	20.442	71.848
0.50	0.707	0.075	0.661	0.661	2.75	0.149	1.461	12.873	84.721
0.75	0.595	0.132	1.163	1.824	3.00	0.125	0.977	8.609	93.330
1.00	0.500	0.332	2.925	4.749	3.25	0.105	0.506	4.459	97.788
1.25	0.420	0.502	4.423	9.173	3.50	0.088	0.136	1.198	98.987
1.50	0.354	0.488	4.300	13.473	3.75	0.074	0.056	0.493	99.480
1.75	0.297	0.782	6.890	20.363	4.00	0.063	0.027	0.238	99.718
2.00	0.250	2.001	17.632	37.995	4.25	0.053	0.032	0.282	100.000
2.25	0.210	1.522	13.411	51.405					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.749	33.245	61.723
Unified Classification	0.000	0.000	9.173	90.308

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.16	0.61	-0.31	3.33
Folk Graphic Measures (PHI)	2.22	2.18	0.60	-0.13	1.14
Grain Size (mm)	0.21	0.22			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 150 cm Date 8-23-92 Profile Analysis Date 6-20-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 11.465 Final Weight : 11.421 Deviation : 0.384 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.260	19.788	74.354
0.50	0.707	0.067	0.587	0.587	2.75	0.149	1.219	10.673	85.028
0.75	0.595	0.106	0.928	1.515	3.00	0.125	0.948	8.300	93.328
1.00	0.500	0.337	2.951	4.465	3.25	0.105	0.516	4.518	97.846
1.25	0.420	0.529	4.632	9.097	3.50	0.088	0.130	1.138	98.984
1.50	0.354	0.556	4.868	13.966	3.75	0.074	0.053	0.464	99.448
1.75	0.297	0.868	7.600	21.566	4.00	0.063	0.027	0.236	99.685
2.00	0.250	2.261	19.797	41.362	4.25	0.053	0.036	0.315	100.000
2.25	0.210	1.508	13.204	54.566					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.465	36.897	58.322	0.315	0.000
Unified Classification	0.000	0.000	9.097	90.351	0.552	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.61	-0.17	3.27
Folk Graphic Measures (PHI)	2.16	2.15	0.60	-0.06	1.17
Grain Size (mm)	0.22	0.23			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 175 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.399 Final Weight : 11.314 Deviation : 0.746 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.965	17.368	76.251
0.50	0.707	0.071	0.628	0.628	2.75	0.149	1.278	11.296	87.546
0.75	0.595	0.172	1.520	2.148	3.00	0.125	0.726	6.417	93.963
1.00	0.500	0.405	3.580	5.727	3.25	0.105	0.376	3.323	97.287
1.25	0.420	0.605	5.347	11.075	3.50	0.088	0.111	0.981	98.268
1.50	0.354	0.630	5.568	16.643	3.75	0.074	0.063	0.557	98.824
1.75	0.297	0.999	8.830	25.473	4.00	0.063	0.034	0.301	99.125
2.00	0.250	2.327	20.567	46.040	4.25	0.053	0.099	0.875	100.000
2.25	0.210	1.453	12.842	58.883					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	5.727	40.313	53.085	0.875	0.000
Unified Classification	0.000	0.000	11.075	87.750	1.176	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.08	0.64	0.04	3.49
Folk Graphic Measures (PHI)	2.08	2.07	0.62	-0.03	1.17
Grain Size (mm)	0.24	0.24			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 200 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyst TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.687 Final Weight : 11.651 Deviation : 0.308 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.166	18.591	74.569
0.50	0.707	0.100	0.858	0.858	2.75	0.149	1.389	11.922	86.490
0.75	0.595	0.212	1.820	2.678	3.00	0.125	0.891	7.647	94.138
1.00	0.500	0.500	4.291	6.969	3.25	0.105	0.443	3.802	97.940
1.25	0.420	0.627	5.382	12.351	3.50	0.088	0.115	0.987	98.927
1.50	0.354	0.608	5.218	17.569	3.75	0.074	0.047	0.403	99.331
1.75	0.297	0.928	7.965	25.534	4.00	0.063	0.032	0.275	99.605
2.00	0.250	2.155	18.496	44.031	4.25	0.053	0.046	0.395	100.000
2.25	0.210	1.392	11.947	55.978					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	6.969	37.061	55.575
Unified Classification	0.000	0.000	12.351	86.980

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.08	0.65	-0.22	3.10
Folk Graphic Measures (PHI)	2.12	2.08	0.65	-0.12	1.15
Grain Size (mm)	0.23	0.24			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 225 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyst TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 11.470 Final Weight : 11.414 Deviation : 0.488 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.095	18.355	73.138
0.50	0.707	0.076	0.666	0.666	2.75	0.149	1.452	12.721	85.859
0.75	0.595	0.170	1.489	2.155	3.00	0.125	0.882	7.727	93.587
1.00	0.500	0.429	3.759	5.914	3.25	0.105	0.454	3.978	97.564
1.25	0.420	0.589	5.160	11.074	3.50	0.088	0.125	1.095	98.660
1.50	0.354	0.572	5.011	16.086	3.75	0.074	0.060	0.526	99.185
1.75	0.297	0.907	7.946	24.032	4.00	0.063	0.030	0.261	99.448
2.00	0.250	2.197	19.248	43.280	4.25	0.053	0.063	0.552	100.000
2.25	0.210	1.313	11.503	54.784					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.914	37.366	56.168
Unified Classification	0.000	0.000	11.074	88.111

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.11	0.64	-0.15	3.21
Folk Graphic Measures (PHI)	2.15	2.12	0.63	-0.10	1.14
Grain Size (mm)	0.23	0.23			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 250 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyz TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.766 Final Weight : 11.706 Deviation : 0.510 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.119	18.102	73.014
0.50	0.707	0.054	0.461	0.461	2.75	0.149	1.449	12.378	85.392
0.75	0.595	0.123	1.051	1.512	3.00	0.125	0.897	7.663	93.055
1.00	0.500	0.421	3.596	5.108	3.25	0.105	0.503	4.297	97.352
1.25	0.420	0.606	5.177	10.285	3.50	0.088	0.137	1.170	98.522
1.50	0.354	0.607	5.185	15.471	3.75	0.074	0.067	0.572	99.094
1.75	0.297	0.940	8.030	23.501	4.00	0.063	0.033	0.282	99.376
2.00	0.250	2.113	19.759	43.260	4.25	0.053	0.073	0.624	100.000
2.25	0.210	1.364	11.652	54.912					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	5.108	38.151	56.117	0.624	0.000
Unified Classification	0.000	0.000	10.285	80.809	0.906	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.12	0.63	-0.06	1.23
Folk Graphic Measures (PHI)	2.14	2.13	0.62	-0.06	1.13
Grain Size (mm)	0.23	0.23			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 275 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyz TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 11.011 Final Weight : 10.953 Deviation : 0.527 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.267	20.698	69.643
0.50	0.707	0.012	0.110	0.110	2.75	0.149	1.549	14.142	83.785
0.75	0.595	0.075	0.685	0.794	3.00	0.125	0.994	9.075	92.860
1.00	0.500	0.273	2.492	3.287	3.25	0.105	0.517	4.720	97.581
1.25	0.420	0.426	3.889	7.176	3.50	0.088	0.126	1.150	98.731
1.50	0.354	0.460	4.200	11.376	3.75	0.074	0.060	0.548	99.279
1.75	0.297	0.738	6.738	18.114	4.00	0.063	0.028	0.256	99.534
2.00	0.250	2.012	18.369	36.483	4.25	0.053	0.051	0.466	100.000
2.25	0.210	1.365	12.462	48.945					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.287	33.196	63.051	0.466	0.000
Unified Classification	0.000	0.000	7.176	92.103	0.721	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.21	0.59	-0.15	1.35
Folk Graphic Measures (PHI)	2.26	2.23	0.57	-0.12	1.09
Grain Size (mm)	0.21	0.22			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 300 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyz TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 11.367 Final Weight : 11.300 Deviation : 0.589 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.946	17.221	76.956
0.50	0.707	0.074	0.655	0.655	2.75	0.149	1.263	11.177	88.133
0.75	0.595	0.147	1.301	1.956	3.00	0.125	0.753	6.664	94.796
1.00	0.500	0.449	3.973	5.929	3.25	0.105	0.381	3.372	98.168
1.25	0.420	0.665	5.885	11.814	3.50	0.088	0.098	0.867	99.035
1.50	0.354	0.660	5.841	17.655	3.75	0.074	0.045	0.398	99.434
1.75	0.297	1.033	9.142	26.796	4.00	0.063	0.024	0.212	99.646
2.00	0.250	2.388	21.133	47.929	4.25	0.053	0.040	0.354	100.000
2.25	0.210	1.334	11.805	59.735					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	5.929	42.000	51.717	0.354	0.000
Unified Classification	0.000	0.000	11.814	87.619	0.566	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.05	0.62	-0.09	1.14
Folk Graphic Measures (PHI)	2.04	2.04	0.62	-0.03	1.10
Grain Size (mm)	0.24	0.24			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 325 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyz TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 11.165 Final Weight : 10.908 Deviation : 2.302 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	1.835	16.823	57.792
0.50	0.707	0.104	0.953	0.953	2.75	0.149	1.460	13.385	71.177
0.75	0.595	0.171	1.568	2.521	3.00	0.125	0.985	9.030	80.207
1.00	0.500	0.345	3.163	5.684	3.25	0.105	0.596	5.464	85.671
1.25	0.420	0.402	3.685	9.369	3.50	0.088	0.255	2.338	88.009
1.50	0.354	0.367	3.365	12.734	3.75	0.074	0.212	1.944	89.952
1.75	0.297	0.571	5.235	17.968	4.00	0.063	0.148	1.357	91.309
2.00	0.250	1.444	13.238	31.206	4.25	0.053	0.948	8.691	100.000
2.25	0.210	1.065	9.763	40.970					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	5.684	25.523	60.103	8.691	0.000
Unified Classification	0.000	0.000	9.369	80.583	10.048	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.41	0.85	0.19	2.95
Folk Graphic Measures (PHI)	2.38	2.40	0.86	0.07	1.33
Grain Size (mm)	0.19	0.19			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 350 cm Date 8-23-92 Profile Analysis Date 6-23-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 11.187 Final Weight : 10.994 Deviation : 1.725 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.201	20.020	49.964
0.50	0.707	0.020	0.182	0.182	2.75	0.149	1.945	17.691	67.655
0.75	0.595	0.074	0.673	0.855	3.00	0.125	1.382	12.570	80.226
1.00	0.500	0.188	1.710	2.565	3.25	0.105	0.843	7.668	87.893
1.25	0.420	0.213	1.937	4.502	3.50	0.088	0.324	2.947	90.840
1.50	0.354	0.239	2.174	6.676	3.75	0.074	0.214	1.947	92.787
1.75	0.297	0.398	3.620	10.297	4.00	0.063	0.125	1.137	93.924
2.00	0.250	1.146	10.424	20.720	4.25	0.053	0.668	6.076	100.000
2.25	0.210	1.014	9.223	29.944					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.565	18.165	73.204	6.076	0.000
Unified Classification	0.000	0.000	4.502	88.285	7.213	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.53	0.71	0.14	3.54
Folk Graphic Measures (PHI)		2.50	2.50	0.72	0.07	1.44
Grain Size (mm)		0.18	0.17			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 375 cm Date 8-23-92 Profile Analysis Date 6-22-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 370 cm  
Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 11.424 Final Weight : 11.358 Deviation : 0.578 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.199	21.122	56.119
0.50	0.707	0.018	0.158	0.158	2.75	0.149	2.040	17.961	74.080
0.75	0.595	0.092	0.810	0.968	3.00	0.125	1.431	12.599	86.679
1.00	0.500	0.193	1.699	2.668	3.25	0.105	0.825	7.264	93.943
1.25	0.420	0.279	2.456	5.124	3.50	0.088	0.255	2.245	96.188
1.50	0.354	0.288	2.536	7.660	3.75	0.074	0.131	1.153	97.341
1.75	0.297	0.479	4.217	11.877	4.00	0.063	0.074	0.652	97.993
2.00	0.250	1.418	12.485	24.362	4.25	0.053	0.228	2.007	100.000
2.25	0.210	1.208	10.636	34.997					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.668	21.694	73.631	2.007	0.000
Unified Classification	0.000	0.000	5.124	92.217	2.659	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.40	0.63	-0.11	3.85
Folk Graphic Measures (PHI)		2.43	2.40	0.60	-0.09	1.16
Grain Size (mm)		0.19	0.19			

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 400 cm 8-23-92 TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 395 cm  
Depth to Bottom of Sample : 405 cm

Comments : Thuy Bul

Start Weight : 11.045 Final Weight : 11.011 Deviation : 0.308 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.505	22.750	56.253
0.50	0.707	0.012	0.109	0.109	2.75	0.149	2.144	19.471	75.724
0.75	0.595	0.028	0.254	0.363	3.00	0.125	1.487	13.505	89.229
1.00	0.500	0.112	1.017	1.380	3.25	0.105	0.804	7.302	96.531
1.25	0.420	0.244	2.216	3.596	3.50	0.088	0.216	1.962	98.492
1.50	0.354	0.275	2.498	6.094	3.75	0.074	0.082	0.745	99.237
1.75	0.297	0.479	4.350	10.444	4.00	0.063	0.036	0.327	99.564
2.00	0.250	1.373	12.469	22.913	4.25	0.053	0.048	0.436	100.000
2.25	0.210	1.166	10.589	33.503					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	1.380	21.513	76.651	0.436	0.000
Unified Classification	0.000	0.000	3.596	95.641	0.763	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.39	0.54	-0.35	3.71
Folk Graphic Measures (PHI)	2.43	2.40	0.53	-0.12	1.07
Grain Size (mm)	0.19	0.19			

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 425 cm 8-23-92 TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 420 cm  
Depth to Bottom of Sample : 430 cm

Comments : Thuy Bul

Start Weight : 11.412 Final Weight : 11.375 Deviation : 0.324 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.25	0.841	0.000	0.000	0.000	2.50	0.177	2.284	20.079	63.499
0.50	0.707	0.041	0.360	0.360	2.75	0.149	1.788	15.719	79.218
0.75	0.595	0.134	1.178	1.538	3.00	0.125	1.304	11.484	90.681
1.00	0.500	0.448	3.938	5.477	3.25	0.105	0.725	6.374	97.055
1.25	0.420	0.565	4.967	10.444	3.50	0.088	0.182	1.600	98.655
1.50	0.354	0.500	4.396	14.840	3.75	0.074	0.068	0.598	99.253
1.75	0.297	0.673	5.916	20.756	4.00	0.063	0.036	0.316	99.569
2.00	0.250	1.449	12.738	33.495	4.25	0.053	0.049	0.431	100.000
2.25	0.210	1.129	9.925	43.420					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	5.477	28.018	66.075	0.431	0.000
Unified Classification	0.000	0.000	10.444	88.809	0.747	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.66	-0.40	2.99
Folk Graphic Measures (PHI)	2.33	2.25	0.66	-0.22	1.06
Grain Size (mm)	0.20	0.21			



Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 450 cm Date 8-23-92 Profile Analysis Date 6-29-94 Analyz TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 445 cm  
Depth to Bottom of Sample : 455 cm

Comments : Thuy Bui

Start Weight : 11.067 Final Weight : 11.058 Deviation : 0.081 t

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.511	13.664	38.786
-0.25	1.189	0.023	0.208	0.208	2.25	0.210	0.990	8.953	47.739
0.00	1.000	0.036	0.326	0.534	2.50	0.177	1.573	14.225	61.964
0.25	0.841	0.047	0.425	0.959	2.75	0.149	1.779	16.088	78.052
0.50	0.707	0.071	0.642	1.601	3.00	0.125	1.420	12.841	90.893
0.75	0.595	0.192	1.736	3.337	3.25	0.105	0.676	6.113	97.007
1.00	0.500	0.527	4.766	8.103	3.50	0.088	0.210	1.899	98.906
1.25	0.420	0.666	6.023	14.126	3.75	0.074	0.056	0.506	99.412
1.50	0.354	0.501	4.531	18.656	4.00	0.063	0.025	0.226	99.638
1.75	0.297	0.715	6.466	25.122	4.25	0.053	0.040	0.362	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	8.103	30.684	60.852	0.362	0.000
Unified Classification	0.000	0.000	14.126	85.287	0.506	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.16	0.73	-0.53	3.04
Polk Graphic Measures (PHI)	2.29	2.17	0.73	-0.24	1.00
Grain Size (mm)	0.20	0.22			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 460 cm Date 8-23-92 Profile Analysis Date 6-29-94 Analyz TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 455 cm  
Depth to Bottom of Sample : 465 cm

Comments : Thuy Bui

Start Weight : 11.110 Final Weight : 11.069 Deviation : 0.369 t

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.110	10.028	48.433
-0.25	1.189	0.071	0.641	0.641	2.25	0.210	0.953	8.610	57.042
0.00	1.000	0.189	1.707	2.349	2.50	0.177	1.497	13.524	70.566
0.25	0.841	0.348	3.144	5.493	2.75	0.149	1.615	14.590	85.157
0.50	0.707	0.371	3.352	8.845	3.00	0.125	0.998	9.016	94.173
0.75	0.595	0.575	5.195	14.039	3.25	0.105	0.454	4.102	98.274
1.00	0.500	0.798	7.209	21.249	3.50	0.088	0.106	0.958	99.232
1.25	0.420	0.697	6.297	27.545	3.75	0.074	0.041	0.370	99.602
1.50	0.354	0.502	4.535	32.081	4.00	0.063	0.015	0.136	99.738
1.75	0.297	0.700	6.324	38.405	4.25	0.053	0.029	0.262	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	21.249	27.184	51.305	0.262	0.000
Unified Classification	0.000	0.000	27.545	72.057	0.398	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.87	0.90	-0.47	2.37
Polk Graphic Measures (PHI)	2.05	1.86	0.91	-0.29	0.82
Grain Size (mm)	0.24	0.27			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-21-92 470 cm 6-29-94 TB/RH

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 465 cm  
Depth to Bottom of Sample : 475 cm

Comments : Thuy Bul

Start Weight : 11.003 Final Weight : 10.935 Deviation : 0.618 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.197	10.947	59.113
-0.25	1.189	0.125	1.143	1.143	2.25	0.210	0.713	6.520	65.633
0.00	1.000	0.326	2.981	4.124	2.50	0.177	1.302	11.907	77.540
0.25	0.841	0.621	5.679	9.803	2.75	0.149	1.119	10.233	87.773
0.50	0.707	0.548	5.011	14.815	3.00	0.125	0.818	7.481	95.254
0.75	0.595	0.645	5.898	20.713	3.25	0.105	0.340	3.109	98.363
1.00	0.500	1.049	9.593	30.306	3.50	0.088	0.097	0.887	99.250
1.25	0.420	0.795	7.270	37.577	3.75	0.074	0.043	0.393	99.643
1.50	0.354	0.554	5.066	42.643	4.00	0.063	0.010	0.091	99.735
1.75	0.297	0.604	5.524	48.166	4.25	0.053	0.029	0.265	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	10.306	28.807	0.265
Unified Classification	0.000	0.000	37.577	62.067

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.65	0.96	-0.19	2.05
Folk Graphic Measures (PHI)	1.79	1.67	0.97	-0.18	0.76
Grain Size (mm)	0.29	0.32			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-23-92 475 cm 6-24-94 TB/RH

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 470 cm  
Depth to Bottom of Sample : 480 cm

Comments : Thuy Bul

Start Weight : 11.607 Final Weight : 11.555 Deviation : 0.448 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.926	8.014	65.989
-0.25	1.189	0.414	3.583	3.583	2.25	0.210	0.540	4.673	70.662
0.00	1.000	1.021	8.836	12.419	2.50	0.177	1.082	9.364	80.026
0.25	0.841	1.185	10.255	22.674	2.75	0.149	0.956	8.273	88.299
0.50	0.707	0.730	6.318	28.992	3.00	0.125	0.683	5.911	94.210
0.75	0.595	0.769	6.655	35.647	3.25	0.105	0.409	3.540	97.750
1.00	0.500	0.973	8.421	44.068	3.50	0.088	0.118	1.021	98.771
1.25	0.420	0.667	5.772	49.840	3.75	0.074	0.053	0.459	99.230
1.50	0.354	0.442	3.825	53.665	4.00	0.063	0.027	0.234	99.463
1.75	0.297	0.498	4.310	57.975	4.25	0.053	0.062	0.537	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	44.068	21.921	33.475
Unified Classification	0.000	0.000	49.840	49.390

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.37	1.11	0.14	1.83
Folk Graphic Measures (PHI)	1.26	1.32	1.13	0.09	0.66
Grain Size (mm)	0.42	0.39			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 480 cm Date 8-23-92 Profile Analysis Date 6-29-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 475 cm  
Depth to Bottom of Sample : 485 cm

Comments : Thuy Bui

Start Weight : 11.752 Final Weight : 11.688 Deviation : 0.545 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.081	9.249	57.307
-0.25	1.189	0.472	4.038	4.038	2.25	0.210	0.671	5.741	63.048
0.00	1.000	0.779	6.665	10.703	2.50	0.177	1.365	11.679	74.726
0.25	0.841	0.835	7.144	17.847	2.75	0.149	1.162	9.942	84.668
0.50	0.707	0.556	4.757	22.604	3.00	0.125	0.976	8.350	93.018
0.75	0.595	0.571	4.885	27.490	3.25	0.105	0.544	4.654	97.673
1.00	0.500	0.794	6.793	34.283	3.50	0.088	0.143	1.223	98.896
1.25	0.420	0.684	5.852	40.135	3.75	0.074	0.059	0.505	99.401
1.50	0.354	0.425	3.636	43.771	4.00	0.063	0.025	0.214	99.615
1.75	0.297	0.501	4.286	48.058	4.25	0.053	0.045	0.385	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	14.283	23.024	42.308
Unified Classification	0.000	0.000	40.135	59.266

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.58	1.10	-0.20	1.86
Folk Graphic Measures (PHI)	1.80	1.57	1.14	-0.24	0.72
Grain Size (mm)	0.29	0.33			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 490 cm Date 8-23-92 Profile Analysis Date 6-30-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 485 cm  
Depth to Bottom of Sample : 495 cm

Comments : Thuy Bui

Start Weight : 11.099 Final Weight : 11.043 Deviation : 0.505 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.902	8.168	49.479
-0.25	1.189	0.398	3.604	3.604	2.25	0.210	0.580	5.252	54.732
0.00	1.000	0.658	5.959	9.563	2.50	0.177	1.721	15.585	70.316
0.25	0.841	0.699	6.330	15.892	2.75	0.149	1.129	10.224	80.540
0.50	0.707	0.436	3.948	19.841	3.00	0.125	0.981	8.883	89.423
0.75	0.595	0.473	4.283	24.124	3.25	0.105	0.725	6.565	95.988
1.00	0.500	0.700	6.339	30.463	3.50	0.088	0.184	1.666	97.655
1.25	0.420	0.446	4.039	34.501	3.75	0.074	0.095	0.860	98.515
1.50	0.354	0.322	2.916	37.417	4.00	0.063	0.050	0.453	98.968
1.75	0.297	0.430	3.894	41.311	4.25	0.053	0.114	1.032	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	30.463	19.017	49.488
Unified Classification	0.000	0.000	34.501	64.013

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.74	1.13	-0.34	2.01
Folk Graphic Measures (PHI)	2.02	1.71	1.16	-0.33	0.76
Grain Size (mm)	0.25	0.30			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 500 cm Date 8-23-92 Profile Analysis Date 6-30-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 495 cm  
Depth to Bottom of Sample : 505 cm

Comments : Thuy Bui

Start Weight : 11.025 Final Weight : 10.937 Deviation : 0.798 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.837	7.653	71.464
-0.25	1.189	0.617	5.641	5.641	2.25	0.210	0.453	4.142	75.606
0.00	1.000	1.198	10.954	16.595	2.50	0.177	0.797	7.287	82.893
0.25	0.841	1.297	11.859	28.454	2.75	0.149	0.702	6.419	89.312
0.50	0.707	0.767	7.013	35.467	3.00	0.125	0.545	4.983	94.295
0.75	0.595	0.772	7.059	42.525	3.25	0.105	0.377	3.447	97.742
1.00	0.500	0.851	7.781	50.306	3.50	0.088	0.110	1.006	98.747
1.25	0.420	0.604	5.523	55.829	3.75	0.074	0.052	0.475	99.223
1.50	0.354	0.401	3.666	59.495	4.00	0.063	0.026	0.238	99.461
1.75	0.297	0.472	4.316	63.811	4.25	0.053	0.059	0.539	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	50.306	21.158	27.997	0.539	0.000
Unified Classification	0.000	0.000	55.829	43.394	0.777	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.21	1.12	0.34	1.93
Folk Graphic Measures (PHI)	0.99	1.17	1.14	0.23	0.67
Grain Size (mm)	0.50	0.43			

Offshore Pensacola (PEN-92-01)

Locality Shelf Type Sand Sample 510 cm Date 8-23-92 Profile Analysis Date 6-30-94 Analyz TB/RM  
X Position : 30:13.23 Y Position : 87:07.88  
Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 505 cm  
Depth to Bottom of Sample : 515 cm

Comments : Thuy Bui

Start Weight : 11.070 Final Weight : 11.013 Deviation : 0.515 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	0.906	8.227	64.215
-0.25	1.189	0.899	8.163	8.163	2.25	0.210	0.490	4.449	68.664
0.00	1.000	1.032	9.371	17.534	2.50	0.177	0.881	8.000	76.664
0.25	0.841	0.955	8.672	26.205	2.75	0.149	0.801	7.273	83.937
0.50	0.707	0.546	4.958	31.163	3.00	0.125	0.720	6.538	90.475
0.75	0.595	0.584	5.303	36.466	3.25	0.105	0.571	5.185	95.660
1.00	0.500	0.724	6.574	43.040	3.50	0.088	0.183	1.662	97.321
1.25	0.420	0.562	5.103	48.143	3.75	0.074	0.107	0.972	98.293
1.50	0.354	0.394	3.578	51.721	4.00	0.063	0.056	0.508	98.801
1.75	0.297	0.470	4.268	55.988	4.25	0.053	0.132	1.199	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	43.040	21.175	34.586	1.199	0.000
Unified Classification	0.000	0.000	48.143	50.150	1.707	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.39	1.22	0.13	1.82
Folk Graphic Measures (PHI)	1.38	1.36	1.24	0.01	0.65
Grain Size (mm)	0.38	0.38			

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 510A cm 8-23-92 TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 505 cm  
Depth to Bottom of Sample : 515 cm

Comments : Thuy Bul

Start Weight : 11.788 Final Weight : 11.667 Deviation : 1.026 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.187	10.174	46.842
-0.25	1.189	0.217	1.860	1.860	2.25	0.210	0.617	5.288	52.130
0.00	1.000	0.469	4.020	5.880	2.50	0.177	0.914	7.834	59.964
0.25	0.841	0.598	5.126	11.005	2.75	0.149	0.869	7.448	67.412
0.50	0.707	0.405	3.471	14.477	3.00	0.125	1.186	10.165	77.578
0.75	0.595	0.455	3.900	18.377	3.25	0.105	0.908	7.783	85.360
1.00	0.500	0.673	5.768	24.145	3.50	0.088	0.472	4.046	89.406
1.25	0.420	0.518	4.440	28.585	3.75	0.074	0.370	1.171	92.577
1.50	0.354	0.422	3.617	32.202	4.00	0.063	0.217	1.860	94.437
1.75	0.297	0.521	4.466	36.668	4.25	0.053	0.649	5.563	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	24.145	22.696	47.596	5.563	0.000
Unified Classification	0.000	0.000	28.585	63.992	7.423	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.03	1.21	-0.21	2.13
Folk Graphic Measures (PHI)	2.15	1.98	1.27	-0.14	0.89
Grain Size (mm)	0.23	0.25			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola (PEN-92-01)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 520 cm 8-23-92 TB/RM

X Position : 30:13.23 Y Position : 87:07.88

Elevation of Top of Core : 87'  
Length of Core : 5.35m  
Depth to Top of Sample : 515 cm  
Depth to Bottom of Sample : 525 cm

Comments : Thuy Bul

Start Weight : 11.642 Final Weight : 11.601 Deviation : 0.352 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.002	8.637	74.063
-0.25	1.189	0.741	6.387	6.387	2.25	0.210	0.482	4.155	78.217
0.00	1.000	1.218	10.499	16.886	2.50	0.177	0.756	6.517	84.734
0.25	0.841	1.290	11.120	28.006	2.75	0.149	0.621	5.153	90.087
0.50	0.707	0.801	6.905	34.911	3.00	0.125	0.526	4.534	94.621
0.75	0.595	0.770	6.637	41.548	3.25	0.105	0.377	3.250	97.871
1.00	0.500	0.989	8.525	50.073	3.50	0.088	0.114	0.983	98.854
1.25	0.420	0.688	5.931	56.004	3.75	0.074	0.057	0.491	99.345
1.50	0.354	0.522	4.500	60.503	4.00	0.063	0.026	0.224	99.569
1.75	0.297	0.571	4.922	65.425	4.25	0.053	0.050	0.431	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	50.073	23.989	25.506	0.431	0.000
Unified Classification	0.000	0.000	56.004	43.341	0.655	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.18	1.10	0.35	2.02
Folk Graphic Measures (PHI)	1.00	1.15	1.13	0.20	0.73
Grain Size (mm)	0.50	0.44			

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
5 cm 8-23-92 TB/RM  
X Position : 30:06.74 Y Position : 87:13.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.478 Final Weight : 11.468 Deviation : 0.087 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.298	11.318	70.056
0.00	1.000	0.025	0.218	0.218	2.50	0.177	1.858	16.202	86.257
0.25	0.841	0.120	1.046	1.264	2.75	0.149	0.905	7.892	94.149
0.50	0.707	0.127	1.107	2.372	3.00	0.125	0.449	3.915	98.064
0.75	0.595	0.242	2.110	4.482	3.25	0.105	0.162	1.413	99.477
1.00	0.500	0.618	5.389	9.871	3.50	0.088	0.029	0.253	99.730
1.25	0.420	0.880	7.674	17.544	3.75	0.074	0.009	0.078	99.808
1.50	0.354	0.868	7.569	25.113	4.00	0.063	0.008	0.070	99.878
1.75	0.297	1.228	10.708	35.821	4.25	0.053	0.014	0.122	100.000
2.00	0.250	2.628	22.916	58.737					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	9.871	48.866	41.141
Unified Classification	0.000	0.000	17.544	82.264

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.87	0.63	-0.35	3.22
Folk Graphic Measures (PHI)	1.90	1.86	0.62	-0.11	1.00
Grain Size (mm)	0.27	0.27			

*Med sand, med. well sorted,  
strongly coarse-sorted, spt. light*

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
25 cm 8-23-92 TB/RM  
X Position : 30:06.74 Y Position : 87:13.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.416 Final Weight : 11.388 Deviation : 0.245 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.392	12.223	63.567
0.00	1.000	0.016	0.140	0.140	2.50	0.177	2.163	18.994	82.561
0.25	0.841	0.053	0.465	0.606	2.75	0.149	1.141	10.019	92.580
0.50	0.707	0.072	0.632	1.238	3.00	0.125	0.574	5.040	97.620
0.75	0.595	0.124	1.089	2.327	3.25	0.105	0.207	1.818	99.438
1.00	0.500	0.446	3.916	6.243	3.50	0.088	0.033	0.290	99.728
1.25	0.420	0.667	5.857	12.100	3.75	0.074	0.012	0.105	99.833
1.50	0.354	0.707	6.208	18.309	4.00	0.063	0.007	0.061	99.895
1.75	0.297	1.146	10.063	28.372	4.25	0.053	0.012	0.105	100.000
2.00	0.250	2.616	22.972	51.344					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	6.243	45.100	48.551
Unified Classification	0.000	0.000	12.100	87.733

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.58	-0.40	3.42
Folk Graphic Measures (PHI)	1.99	1.98	0.58	-0.06	1.09
Grain Size (mm)	0.25	0.25			

*Med normal, med. well sorted,  
strongly coarse-sorted, spt. light*

## Offshore Pensacola, FL (PEN-92-02)

Locality Shelf  
 Type Sand  
 Sample 50 cm  
 Date 8-23-92  
 Profile  
 Analysis Date 3-2-94  
 TB/RM  
 X Position : 30106.74  
 Y Position : 87113.47  
 Elevation of Top of Core : 91'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 45 cm  
 Depth to Bottom of Sample : 55 cm  
 Comments : Thuy Bul

Start Weight :	11.720	Final Weight :	11.679	Deviation :	0.350	g
PHI	MM	Weight	Percent	Cumulative	Percent	
-----	-----	-----	-----	-----	-----	
-0.25	1.189	0.000	0.000	0.000	58.181	
0.00	1.000	0.005	0.043	0.043	78.431	
0.25	0.841	0.021	0.180	0.223	89.828	
0.50	0.707	0.054	0.462	0.685	96.464	
0.75	0.595	0.102	0.873	1.558	99.092	
1.00	0.500	0.131	2.834	4.392	99.538	
1.25	0.420	0.371	4.889	9.282	99.743	
1.50	0.354	0.646	5.931	14.813	99.846	
1.75	0.297	1.046	8.956	23.769	100.000	
2.00	0.250	2.600	22.262	46.031		

## Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
Wentworth Classification	4.392	41.639	53.815
Unified Classification	0.000	9.282	90.462
Standard Statistics :	Median	Mean	Dev.
Method of Moments (PHI)	2.07	0.57	-0.30
Folk Graphic Measures (PHI)	2.08	0.56	-0.05
Grain Size (mm)	0.24	0.24	
		Skew	Kurt

fine sand, med. well sorted,  
 coarse. submed, ext. light.

## Offshore Pensacola, FL (PEN-92-02)

Locality Shelf  
 Type Sand  
 Sample 75 cm  
 Date 8-23-92  
 Profile  
 Analysis Date 3-2-94  
 TB/RM  
 X Position : 30106.74  
 Y Position : 87113.47  
 Elevation of Top of Core : 91'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 70 cm  
 Depth to Bottom of Sample : 80 cm  
 Comments : Thuy Bul

Start Weight :	11.364	Final Weight :	11.331	Deviation :	0.290	g
PHI	MM	Weight	Percent	Cumulative	Percent	
-----	-----	-----	-----	-----	-----	
-0.25	1.189	0.000	0.000	0.000	65.149	
0.00	1.000	0.015	0.132	0.132	83.152	
0.25	0.841	0.071	0.627	0.759	92.781	
0.50	0.707	0.099	0.874	1.633	97.670	
0.75	0.595	0.178	1.571	3.204	99.506	
1.00	0.500	0.531	4.686	7.890	99.718	
1.25	0.420	0.734	6.478	14.368	99.823	
1.50	0.354	0.738	6.513	20.881	99.894	
1.75	0.297	1.159	10.229	31.109	100.000	
2.00	0.250	2.554	22.540	53.649		

## Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
Wentworth Classification	0.000	45.759	46.245
Unified Classification	0.000	0.000	14.368
Standard Statistics :	Median	Mean	Dev.
Method of Moments (PHI)	1.96	0.61	-0.39
Folk Graphic Measures (PHI)	1.96	0.61	-0.09
Grain Size (mm)	0.26	0.26	
		Skew	Kurt

Med. sand, med. well sorted,  
 strongly wave-sorted, silt. light.

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 100 cm Date 8-23-92 Profile Analysis Date 3-2-94 Analyz TB/RM  
X Position : 30:06.74 Y Position : 87:13.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.481 Final Weight : 11.434 Deviation : 0.409 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.365	11.938	64.125
0.00	1.000	0.008	0.070	0.070	2.50	0.177	2.094	18.314	82.438
0.25	0.841	0.042	0.367	0.437	2.75	0.149	1.108	9.690	92.129
0.50	0.707	0.070	0.612	1.050	3.00	0.125	0.601	5.256	97.385
0.75	0.595	0.157	1.373	2.423	3.25	0.105	0.226	1.977	99.362
1.00	0.500	0.470	4.111	6.533	3.50	0.088	0.044	0.385	99.746
1.25	0.420	0.729	6.376	12.909	3.75	0.074	0.014	0.122	99.869
1.50	0.354	0.745	6.516	19.425	4.00	0.063	0.006	0.052	99.921
1.75	0.297	1.127	9.857	29.281	4.25	0.053	0.009	0.079	100.000
2.00	0.250	2.619	22.905	52.186					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.533	45.653	47.735	0.079	0.000
Unified Classification	0.000	0.000	12.909	86.960	0.131	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.98	0.59	-0.33	3.18
Folk Graphic Measures (PHI)	1.98	1.96	0.59	-0.06	1.07
Grain Size (mm)	0.25	0.25			

Med. sand, med. well sorted,  
strongly coarse-skinned, opt. dyt.

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 125 cm Date 8-23-92 Profile Analysis Date 3-2-94 Analyz TB/RM  
X Position : 30:06.74 Y Position : 87:13.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 11.220 Final Weight : 11.151 Deviation : 0.615 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	1.354	12.142	62.999
0.00	1.000	0.016	0.143	0.143	2.50	0.177	2.113	18.949	81.948
0.25	0.841	0.049	0.439	0.583	2.75	0.149	1.125	10.089	92.037
0.50	0.707	0.079	0.708	1.291	3.00	0.125	0.604	5.417	97.453
0.75	0.595	0.156	1.399	2.690	3.25	0.105	0.223	2.000	99.453
1.00	0.500	0.446	4.000	6.690	3.50	0.088	0.020	0.179	99.632
1.25	0.420	0.653	5.856	12.546	3.75	0.074	0.016	0.143	99.776
1.50	0.354	0.685	6.143	18.689	4.00	0.063	0.010	0.090	99.865
1.75	0.297	1.100	9.865	28.553	4.25	0.053	0.015	0.135	100.000
2.00	0.250	2.487	22.303	50.856					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.690	44.166	49.009	0.135	0.000
Unified Classification	0.000	0.000	12.546	87.230	0.224	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.60	-0.39	3.38
Folk Graphic Measures (PHI)	1.99	1.98	0.59	-0.07	1.09
Grain Size (mm)	0.25	0.25			

Med. sand, med. well sorted,  
strongly coarse-skinned, opt. dyt.



## Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 150 cm Date 8-23-92 Profile Analysis Date 3-2-94 TB/RM  
 X Position : 30106.74 Y Position : 87113.47  
 Elevation of Top of Core : 93'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 145 cm  
 Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight :	11.836	Final Weight :	11.772	Deviation :	0.564 %
PHI	MM	Weight	Percent	Weight	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	1.423	12.088
0.00	1.000	0.026	0.221	2.105	17.881
0.25	0.841	0.083	0.705	2.750	23.149
0.50	0.707	0.103	0.875	3.000	25.135
0.75	0.595	0.184	1.563	3.250	27.135
1.00	0.500	0.328	2.791	3.500	29.135
1.25	0.420	0.747	6.346	3.750	31.135
1.50	0.354	0.799	6.787	4.000	33.135
1.75	0.297	1.220	10.364	4.250	35.135
2.00	0.250	2.718	23.089	4.500	37.135

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
-----	-----	-----	-----
Wentworth Classification	0.000	7.849	46.585
Unified Classification	0.000	0.000	14.195

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
-----	-----	-----	-----	-----
1.95	1.93	0.60	-0.43	3.41
0.26	0.26	0.60	-0.10	1.06

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

*Med. sand, med. well sorted,  
 always somewhat poorly sorted by 4.*

## Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 175 cm Date 8-23-92 Profile Analysis Date 3-2-94 TB/RM  
 X Position : 30106.74 Y Position : 87113.47  
 Elevation of Top of Core : 93'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 170 cm  
 Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight :	11.946	Final Weight :	11.882	Deviation :	0.536 %
PHI	MM	Weight	Percent	Weight	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	1.609	13.541
0.00	1.000	0.000	0.000	2.420	20.367
0.25	0.841	0.030	0.252	3.215	27.135
0.50	0.707	0.047	0.396	4.000	33.135
0.75	0.595	0.085	0.715	4.750	40.135
1.00	0.500	0.323	2.718	5.500	46.135
1.25	0.420	0.561	4.721	6.250	52.135
1.50	0.354	0.570	4.803	7.000	58.135
1.75	0.297	1.133	9.535	7.750	64.135
2.00	0.250	2.894	24.356	8.500	70.135

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
-----	-----	-----	-----
Wentworth Classification	0.000	4.082	51.549
Unified Classification	0.000	0.000	8.803

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
-----	-----	-----	-----	-----
2.03	2.04	0.53	-0.03	1.15
0.24	0.24	0.24	0.24	0.24

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

*fine sand, med. well sorted,  
 strongly coarse sand, opt. light.*

Offshore Pensacola, FL (PEN-92-02)

Locality : Shelf  
Type : Sand  
Sample : 300 cm  
Date : 8-23-92  
Profile :  
Analysis Date : 3-2-94  
Analysis Date : 8/13.47  
X Position : 30106.74  
Y Position : 87113.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 11.962		Final Weight : 11.929		Deviation : 0.276 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	60.617
0.00	1.000	0.017	0.143	0.143	2.417
0.25	0.841	0.047	0.394	0.537	2.417
0.50	0.707	0.066	0.553	1.090	1.287
0.75	0.595	0.120	1.006	2.096	10.789
1.00	0.500	0.348	2.917	5.013	91.667
1.25	0.420	0.591	4.954	9.967	5.541
1.50	0.354	0.872	7.333	15.601	97.208
1.75	0.297	1.066	8.936	24.537	2.045
2.00	0.250	2.780	23.305	47.841	99.254
					0.394
					99.648
					0.047
					0.181
					0.092
					99.891
					0.109
					100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
0.000		5.013		42.828		52.050	
0.000		0.000		9.967		89.832	
0.000		0.000		0.109		0.000	
0.000		0.000		0.201		0.000	

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.04	2.04	0.57	-0.44	3.68
Grain Size (mm)	0.24	0.24	0.55	-0.05	1.16

fine sand, med. well sorted,  
strongly coarse skewed, spt. 4, 5, 6.

Offshore Pensacola, FL (PEN-92-02)

Locality : Shelf  
Type : Sand  
Sample : 200 cm  
Date : 8-23-92  
Profile :  
Analysis Date : 2-23-94  
Analysis Date : 8/13.47  
X Position : 30106.74  
Y Position : 87113.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 12.005		Final Weight : 11.987		Deviation : 0.150 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	69.350
0.00	1.000	0.016	0.133	0.133	2.500
0.25	0.841	0.084	0.701	0.834	2.088
0.50	0.707	0.093	0.776	1.610	17.419
0.75	0.595	0.192	1.602	3.212	8.009
1.00	0.500	0.522	4.355	7.567	94.778
1.25	0.420	0.780	6.507	14.074	3.520
1.50	0.354	0.822	6.857	20.931	0.422
1.75	0.297	1.379	11.504	32.435	3.218
2.00	0.250	3.112	25.961	58.397	99.516
					0.146
					1.218
					99.758
					0.029
					0.242
					99.867
					0.108
					99.933
					0.067
					100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
0.000		7.567		50.820		41.537	
0.000		0.000		14.074		85.793	
0.000		0.000		0.067		0.000	
0.000		0.000		0.133		0.000	

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	1.92	1.91	0.58	-0.39	3.46
Grain Size (mm)	0.26	0.27	0.57	-0.08	1.06

medium sand, med. well sorted,  
strongly coarse - showing siltation.

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 225 cm Date 8-23-92 Profile Y Position : 30106.74 Analysis Date 2-18-94 Analysis Date 78/RM  
X Position : 30106.74 Y Position : 87113.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 11.525		Final Weight : 11.512		Deviation : 0.013 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.007	0.061	0.000	0.000
0.25	0.841	0.046	0.391	0.061	0.517
0.50	0.707	0.057	0.495	0.947	81.244
0.75	0.595	0.104	0.903	1.850	93.181
1.00	0.500	0.310	2.693	4.543	4.508
1.25	0.420	0.532	4.621	9.164	1.590
1.50	0.354	0.601	5.221	14.385	99.279
1.75	0.297	1.102	9.573	23.958	99.618
2.00	0.250	2.866	24.856	48.853	99.765

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
0.000	4.943	44.310	50.999
0.000	0.000	9.164	90.601
0.000	0.000	0.148	0.000
0.000	0.000	0.235	0.000

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	2.02	2.03	0.55	-0.39	3.93
Grain Size (mm)	0.25	0.25	0.52	-0.03	1.17

fine sand, med well sorted,  
at longly two size - at around 0.25 to 0.5 mm.

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 250 cm Date 8-23-92 Profile Y Position : 30106.74 Analysis Date 2-23-94 Analysis Date 78/RM  
X Position : 30106.74 Y Position : 87113.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.436		Final Weight : 11.400		Deviation : 0.315 %	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.003	0.026	0.026	0.210
0.25	0.841	0.028	0.246	0.272	2.224
0.50	0.707	0.056	0.491	0.763	2.500
0.75	0.595	0.112	0.982	1.746	2.750
1.00	0.500	0.336	2.947	4.693	3.000
1.25	0.420	0.598	5.246	9.939	3.250
1.50	0.354	0.659	5.781	15.719	3.500
1.75	0.297	1.166	10.228	25.947	3.750
2.00	0.250	2.842	24.930	50.877	4.000

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
0.000	4.693	46.184	48.991
0.000	0.000	9.939	89.833
0.000	0.000	0.132	0.000
0.000	0.000	0.228	0.000

Standard Statistics :

Method of Moments (PHI)	Median	Mean	Dev.	Skew	Kurt
Folk Graphic Measures (PHI)	1.99	2.01	0.56	-0.27	3.54
Grain Size (mm)	0.25	0.25	0.54	0.00	1.13

fine sand, med well sorted,  
coarse - medium grain, 0.25 to 0.5 mm.

Offshore Pensacola, FL (PEN-92-02)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 275 cm 8-23-92 8A/RH  
X Position : 30106.74 Y Position : 87113.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 12.816		Final Weight : 12.812		Deviation : 0.031 %	
PHI	MM	Weight	Percent	Cumul	Percent
----	----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	53.091
0.00	1.000	0.000	0.000	0.000	65.759
0.25	0.841	0.033	0.258	1.873	84.928
0.50	0.707	0.076	0.593	2.724	93.725
0.75	0.595	0.078	0.609	3.333	98.088
1.00	0.500	0.129	1.007	4.340	99.469
1.25	0.420	0.193	1.067	7.407	99.719
1.50	0.354	0.648	5.058	12.465	99.852
1.75	0.297	0.723	5.643	18.108	99.930
2.00	0.250	1.306	10.194	28.302	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Wentworth Classification		0.000		7.407		45.684	
Unified Classification		0.000		0.000		0.070	
						0.148	

Standard Statistics :

Method of Moments (PHI)		Median		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)		1.97		1.94		0.64		-1.05		5.31	
Grain Size (mm)		0.26		1.25		0.58		-0.10		1.18	

med. sand, med. well sorted,  
silt. coarse sand, silt. 10 ft.

Offshore Pensacola, FL (PEN-92-02)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 325 cm 8-23-92 7B/RH  
X Position : 30106.74 Y Position : 87113.47  
Elevation of Top of Core : 93'  
Length of Core : 4.57 m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 11.265		Final Weight : 11.235		Deviation : 0.266 %	
PHI	MM	Weight	Percent	Cumul	Percent
----	----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	12.212
0.00	1.000	0.000	0.000	0.000	20.899
0.25	0.841	0.011	0.098	0.098	23.348
0.50	0.707	0.039	0.347	0.445	26.800
0.75	0.595	0.091	0.810	1.255	29.680
1.00	0.500	0.305	2.715	3.970	32.600
1.25	0.420	0.524	4.664	8.634	35.520
1.50	0.354	0.587	5.225	13.859	38.440
1.75	0.297	1.019	9.070	22.928	41.360
2.00	0.250	2.679	23.845	46.773	44.280

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Wentworth Classification		0.000		3.970		42.804	
Unified Classification		0.000		0.000		0.089	
						0.187	

Standard Statistics :

Method of Moments (PHI)		Median		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)		2.07		2.07		0.54		-0.03		1.14	
Grain Size (mm)		0.24		0.24		0.24		0.24		0.24	

fine sand, med. well sorted,  
silt. coarse sand, silt. 10 ft.

## Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 350 cm Date 8-23-92 Profile Analysis Date 2-23-94 Analysis Date 7B/RM  
 X Position : 30106.74 Y Position : 87113.47  
 Elevation of Top of Core : 93'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 345 cm  
 Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 11.943 Final Weight : 11.903 Deviation : 0.335 %		PHI MM		Weight Percent		Cumul Percent	
PHI	MM	Weight	Percent	Cumul	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	0.000	0.000	0.000
0.00	1.000	0.016	0.134	0.016	11.451	64.606	37.6
0.25	0.841	0.056	0.470	0.605	2.334	18.768	83.374
0.50	0.707	0.093	0.781	1.386	2.334	18.768	83.374
0.75	0.595	0.160	1.344	2.730	1.105	9.283	92.657
1.00	0.500	0.434	3.646	6.377	0.582	4.690	97.547
1.25	0.420	0.690	5.797	12.173	0.214	1.798	99.345
1.50	0.354	0.708	5.948	18.121	0.040	0.336	99.681
1.75	0.297	1.222	10.266	28.388	0.074	0.610	99.832
2.00	0.250	2.948	24.767	53.155	0.008	0.067	99.899
					0.012	0.101	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	6.377	46.778	46.745	0.101	0.000	
Unified Classification	0.000	0.000	12.173	87.659	0.168	0.000	

Standard Statistics :

Method of Moments (PHI)		Median		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)	Grain Size (mm)										
		1.97	0.58	-0.39	3.50						
		1.97	0.57	-0.04	1.12						
		0.26	0.25								

med sand, med. well sorted,  
 strongly uniform-sorted, sub. lap. to

## Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 375 cm Date 8-23-92 Profile Analysis Date 2-21-94 Analysis Date 8A/RM  
 X Position : 30106.74 Y Position : 87113.47  
 Elevation of Top of Core : 93'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 370 cm  
 Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 12.243 Final Weight : 12.222 Deviation : 0.172 %		PHI MM		Weight Percent		Cumul Percent	
PHI	MM	Weight	Percent	Cumul	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	0.000	0.000	0.000
0.00	1.000	0.179	1.465	1.465	2.328	18.107	80.846
0.25	0.841	0.080	0.655	2.119	2.50	0.177	1.465
0.50	0.707	0.103	0.843	2.962	2.75	0.149	1.231
0.75	0.595	0.185	1.514	4.476	3.00	0.125	0.728
1.00	0.500	0.523	4.279	8.755	3.28	0.105	0.281
1.25	0.420	0.741	6.020	14.818	3.50	0.088	0.052
1.50	0.354	0.729	5.965	20.782	3.75	0.074	0.024
1.75	0.297	1.188	9.720	30.502	4.00	0.063	0.011
2.00	0.250	2.612	21.371	51.874	4.25	0.053	0.014

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Wentworth Classification	0.000	8.755	43.119	48.012	0.115	0.000	
Unified Classification	0.000	0.000	14.818	84.978	0.205	0.000	

Standard Statistics :

Method of Moments (PHI)		Median		Mean		Dev.		Skew		Kurt	
Folk Graphic Measures (PHI)	Grain Size (mm)										
		1.98	0.66	-0.61	3.72						
		1.98	0.64	-0.09	1.08						
		0.25	0.26								

med sand, med. well sorted,  
 strongly coarse-sorted, sub. lap. to

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 400 cm Date 8-23-92 Profile Analysis Date 2-21-94 SA/RM  
 X Position : 30106.74 Y Position : 87113.47  
 Elevation of Top of Core : 93'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 395 cm  
 Depth to Bottom of Sample : 405 cm

Comments : Thuy Bul

Start Weight : 12.891 Final Weight : 12.889 Deviation : 0.016 %			
PHI	MM	Weight Percent	Cumul Percent
-0.25	1.189	0.000	0.000
0.00	1.000	0.178	1.381
0.25	0.841	0.089	0.691
0.50	0.707	0.104	0.807
0.75	0.595	0.205	1.591
1.00	0.500	0.524	4.065
1.25	0.420	0.516	6.331
1.50	0.354	0.794	6.160
1.75	0.297	1.226	9.512
2.00	0.250	2.750	21.316

Sample Content by Weight Percent :

Gravel	Sand coarse	Sand medium	Sand fine	Silt	Clay
Wentworth Classification	0.000	8.534	43.339	48.049	0.078
Unified Classification	0.000	0.000	14.865	84.964	0.171

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
1.96	1.95	0.64	-0.09	1.08
Grain Size (mm)	0.25	0.26		

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)

med. sand, med. well sorted,  
 strongly coarse-skewed, sub. Septa

Offshore Pensacola, FL (PEN-92-02)

Locality Shelf Type Sand Sample 425 cm Date 8-23-92 Profile Analysis Date 2-21-94 TB/RM  
 X Position : 30106.74 Y Position : 87113.47  
 Elevation of Top of Core : 93'  
 Length of Core : 4.57 m  
 Depth to Top of Sample : 420 cm  
 Depth to Bottom of Sample : 430 cm

Comments : Thuy Bul

Start Weight : 11.534 Final Weight : 11.501 Deviation : 0.286 %			
PHI	MM	Weight Percent	Cumul Percent
-0.25	1.189	0.000	0.000
0.00	1.000	0.009	0.078
0.25	0.841	0.048	0.417
0.50	0.707	0.070	0.609
0.75	0.595	0.163	1.417
1.00	0.500	0.457	3.974
1.25	0.420	0.656	5.704
1.50	0.354	0.692	6.017
1.75	0.297	1.121	9.747
2.00	0.250	2.658	23.111

Sample Content by Weight Percent :

Gravel	Sand coarse	Sand medium	Sand fine	Silt	Clay
Wentworth Classification	0.000	6.495	44.579	48.804	0.122
Unified Classification	0.000	0.000	12.199	87.558	0.243

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
1.99	1.99	0.60	-0.31	1.32
Grain Size (mm)	0.25	0.25		

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)

fine sand, med. well sorted,  
 strongly coarse-skewed, sub. Septa

## Offshore Pensacola, FL (PEN92-03)

Locality Shelf Type Sand Sample 25 cm Date 8-23-92 Profile Analysis Date Analyz 1-27-94 Tc/RM

X Position : 30105.97 Y Position : 87119.15

Elevation of Top of Core : 107'  
Length of Core : 2.22 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 15.756 Final Weight : 15.765 Deviation : 0.007 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
0.25	0.841	0.000	0.000	0.000	0.000	2.50	0.177	2.814	17.850	37.926	240.000
0.50	0.707	0.000	0.000	0.000	0.000	2.75	0.149	2.996	19.004	56.930	240.000
0.75	0.595	0.004	0.025	0.025	0.031	3.00	0.125	3.290	20.869	77.799	240.000
1.00	0.500	0.045	0.285	0.311	0.311	3.25	0.105	2.466	15.642	93.441	240.000
1.25	0.420	0.080	0.507	0.818	0.818	3.50	0.088	0.640	4.060	97.501	240.000
1.50	0.354	0.119	0.755	1.573	1.573	3.75	0.074	0.262	1.662	99.163	240.000
1.75	0.297	0.274	1.728	3.311	3.311	4.00	0.063	0.109	0.691	99.854	240.000
2.00	0.250	1.256	7.967	11.278	11.278	4.25	0.053	0.023	0.146	100.000	240.000
2.25	0.210	1.387	8.798	20.076	20.076						

Sample Content by Weight Percent :

Gravel coarse medium fine Silt Clay

Wentworth Classification 0.000 0.311 10.967 88.576 0.146 0.000

Unified Classification 0.000 0.000 0.818 98.344 0.837 0.000

Standard Statistics :

Median Mean Dev. Skew Kurt

Method of Moments (PHI)

Folk Graphic Measures (PHI)

Grain Size (mm)

2.66 2.63 0.48 -0.10 3.43

0.16 0.16 0.16 0.16 0.98

## Offshore Pensacola, FL (PEN92-03)

Locality Shelf Type Sand Sample 5 cm Date 8-23-92 Profile Analysis Date Analyz 1-28-94 Tc/RM

X Position : 30105.97 Y Position : 87119.15

Elevation of Top of Core : 107'  
Length of Core : 2.32 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.003 Final Weight : 10.951 Deviation : 0.473 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
0.00	1.000	0.000	0.000	0.000	0.000	2.50	0.177	1.455	13.286	23.459	240.000
0.25	0.841	0.007	0.064	0.064	0.064	2.75	0.149	2.215	20.226	43.686	240.000
0.50	0.707	0.008	0.073	0.137	0.137	3.00	0.125	2.822	25.769	69.455	240.000
0.75	0.595	0.014	0.128	0.265	0.265	3.25	0.105	2.349	21.450	90.905	240.000
1.00	0.500	0.032	0.292	0.557	0.557	3.50	0.088	0.646	5.899	96.804	240.000
1.25	0.420	0.051	0.466	1.023	1.023	3.75	0.074	0.246	2.246	99.050	240.000
1.50	0.354	0.058	0.530	1.552	1.552	4.00	0.063	0.085	0.776	99.826	240.000
1.75	0.297	0.097	0.886	2.438	2.438	4.25	0.053	0.015	0.137	99.963	240.000
2.00	0.250	0.378	3.452	5.890	5.890	4.50	0.044	0.004	0.037	100.000	240.000
2.25	0.210	0.469	4.283	10.173	10.173						

Sample Content by Weight Percent :

Gravel coarse medium fine Silt Clay

Wentworth Classification 0.000 0.557 93.937 0.174 0.000

Unified Classification 0.000 0.000 1.023 98.028 0.950 0.000

Standard Statistics :

Median Mean Dev. Skew Kurt

Method of Moments (PHI)

Folk Graphic Measures (PHI)

Grain Size (mm)

2.81 2.78 0.43 -0.15 5.88

0.14 0.15 0.15 0.15 1.12

Offshore Pensacola, FL (PEN92-03)

Locality Shelf Type Sand Sample 50 cm Date 8-23-92 Profile Analysis Date 1-28-94 Analyz TB/RM

X Position : 30:05.97 Y Position : 87:19.15

Elevation of Top of Core : 107'  
Length of Core : 2.22 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 11.231 Final Weight : 11.193 Deviation : 0.338 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	2.068	18.476	46.878
0.25	0.841	0.006	0.054	0.054	2.75	0.149	1.913	17.091	63.969
0.50	0.707	0.009	0.080	0.134	3.00	0.125	1.972	17.618	81.587
0.75	0.595	0.013	0.116	0.250	3.25	0.105	1.477	13.196	94.782
1.00	0.500	0.029	0.259	0.509	3.50	0.088	0.372	3.324	98.106
1.25	0.420	0.083	0.742	1.251	3.75	0.074	0.151	1.349	99.455
1.50	0.354	0.140	1.251	2.502	4.00	0.063	0.051	0.456	99.911
1.75	0.297	0.334	2.984	5.486	4.25	0.053	0.008	0.071	99.982
2.00	0.250	1.447	12.928	18.413	4.50	0.044	0.002	0.018	100.000
2.25	0.210	1.118	9.988	28.402					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.509	17.904	81.497	0.089	0.000
Unified Classification	0.000	0.000	1.251	98.204	0.545	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.52	0.52	-0.32	3.33
Folk Graphic Measures (PHI)	2.55	2.51	0.51	-0.08	0.86
Grain Size (mm)	0.17	0.17			

Offshore Pensacola, FL (PEN92-03)

Locality Shelf Type Sand Sample 75 cm Date 8-23-92 Profile Analysis Date 1-28-94 Analyz TB/RM

X Position : 30:05.97 Y Position : 87:19.15

Elevation of Top of Core : 107'  
Length of Core : 2.22 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 11.102 Final Weight : 11.073 Deviation : 0.261 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.50	0.177	1.731	15.633	63.849
0.25	0.841	0.010	0.090	0.090	2.75	0.149	1.356	12.246	76.095
0.50	0.707	0.011	0.099	0.190	3.00	0.125	1.298	11.722	87.817
0.75	0.595	0.018	0.163	0.352	3.25	0.105	0.953	8.607	96.424
1.00	0.500	0.067	0.605	0.957	3.50	0.088	0.250	2.258	98.681
1.25	0.420	0.240	2.167	3.125	3.75	0.074	0.095	0.858	99.539
1.50	0.354	0.456	4.118	7.243	4.00	0.063	0.041	0.370	99.910
1.75	0.297	0.958	8.652	15.895	4.25	0.053	0.005	0.045	99.955
2.00	0.250	2.394	21.620	37.515	4.50	0.044	0.005	0.045	100.000
2.25	0.210	1.185	10.702	48.216					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.957	36.557	62.395	0.090	0.000
Unified Classification	0.000	0.000	3.125	96.415	0.461	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.29	0.58	0.03	2.78
Folk Graphic Measures (PHI)	2.28	2.32	0.57	0.05	0.87
Grain Size (mm)	0.21	0.21			



## Offshore Pensacola, FL (PEN92-03)

Locality : Shelf  
 Type : Sand  
 Sample : 100 cm  
 Date : 8-23-92  
 Profile :  
 Analysis Date : 1-28-94  
 Analyz : TB/RM  
 X Position : 30105.97  
 Y Position : 8719.15  
 Elevation of Top of Core : 107'  
 Length of Core : 2.22 m  
 Depth to Top of Sample : 95 cm  
 Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 11.276		Final Weight : 11.237		Deviation : 0.346 g	
PHI	MM	Weight	Percent	Cumul	Percent
0.00	1.000	0.000	0.000	0.000	72.635
0.25	0.841	0.012	0.107	0.107	81.614
0.50	0.707	0.035	0.311	0.418	89.79
0.75	0.595	0.101	0.899	1.317	98.01
1.00	0.500	0.598	5.322	6.639	90.416
1.25	0.420	1.052	9.362	16.001	97.108
1.50	0.354	0.925	8.232	24.232	98.950
1.75	0.297	1.179	10.492	34.725	99.653
2.00	0.250	2.093	18.626	53.351	99.982
2.25	0.210	0.891	7.929	61.280	99.982

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	fine	coarse	medium	fine	medium	fine	clay
Wentworth Classification	0.000	6.639	46.712	46.578	0.071	0.000	0.000
Unified Classification	0.000	0.000	16.001	83.652	0.347	0.000	0.000

Standard Statistics :

Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)	1.96	2.03	0.70	0.10	2.33	0.09	0.68	0.09	0.68
Folk Graphic Measures (PHI)	0.26	2.01	0.73	0.09	2.33	0.09	0.68	0.09	0.68
Grain Size (mm)	0.26	2.01	0.73	0.09	2.33	0.09	0.68	0.09	0.68

## Offshore Pensacola, FL (PEN92-03)

Locality : Shelf  
 Type : Sand  
 Sample : 125 cm  
 Date : 8-23-92  
 Profile :  
 Analysis Date : 1-28-94  
 Analyz : TB/RM  
 X Position : 30105.97  
 Y Position : 8719.15  
 Elevation of Top of Core : 107'  
 Length of Core : 2.22 m  
 Depth to Top of Sample : 120 cm  
 Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 11.617		Final Weight : 11.562		Deviation : 0.473 g	
PHI	MM	Weight	Percent	Cumul	Percent
0.00	1.000	0.000	0.000	0.000	77.383
0.25	0.841	0.139	1.202	1.202	84.172
0.50	0.707	0.259	2.240	3.442	91.135
0.75	0.595	0.506	4.376	7.819	96.921
1.00	0.500	1.277	11.045	18.864	98.685
1.25	0.420	1.326	11.469	30.332	99.498
1.50	0.354	0.949	8.208	38.540	99.862
1.75	0.297	1.064	9.203	47.743	99.931
2.00	0.250	1.734	14.997	62.740	99.931
2.25	0.210	0.702	6.072	68.812	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	coarse	medium	fine	medium	fine	clay
Wentworth Classification	0.000	18.864	43.876	37.122	0.138	0.000	0.000
Unified Classification	0.000	0.000	30.332	69.166	0.502	0.000	0.000

Standard Statistics :

Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)	1.79	1.81	0.81	0.21	2.29	0.06	0.81	0.21	2.29
Folk Graphic Measures (PHI)	0.29	1.82	0.84	0.06	2.29	0.06	0.81	0.06	2.29
Grain Size (mm)	0.29	1.82	0.84	0.06	2.29	0.06	0.81	0.06	2.29

## Offshore Pensacola, FL (PEN92-03)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 150 cm 8-23-92 1-31-94 TC/RH

X Position : 30105.97 Y Position : 87119.15

Elevation of Top of Core : 107'  
Length of Core : 2.22 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 15.819 Final Weight : 15.808 Deviation : 0.070 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.50	1.414	0.000	0.000	0.000	14.866	2.00	0.250	2.350	14.866	61.703	
-0.25	1.189	0.111	0.702	0.702	7.023	2.25	0.210	1.110	7.023	68.725	
0.00	1.000	0.242	1.531	2.233	2.50	0.177	1.477	9.343	78.068		
0.25	0.841	0.398	2.518	4.751	3.75	0.149	1.151	7.281	85.349		
0.50	0.707	0.366	2.315	7.066	3.00	0.125	1.138	7.199	92.548		
0.75	0.595	0.683	4.321	11.387	3.25	0.105	0.826	5.225	97.773		
1.00	0.500	1.543	9.761	21.148	3.50	0.088	0.218	1.379	99.152		
1.25	0.420	1.557	9.849	30.997	3.75	0.074	0.095	0.601	99.753		
1.50	0.354	1.148	7.262	38.259	4.00	0.063	0.029	0.183	99.937		
1.75	0.297	1.356	8.578	46.837	4.25	0.053	0.010	0.063	100.000		

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	fine	medium	fine		
Wentworth Classification	0.000	21.148	40.555	38.234	0.063	0.000
Unified Classification	0.000	0.000	30.997	68.756	0.247	0.000
Standard Statistics :	Median		Mean	Dev.	Skew	Kurt
Method of Moments (PHI)	1.60		1.76	0.86	-0.11	2.43
Folk Graphic Measures (PHI)	0.29		1.79	0.89	-0.03	0.88
Grain Size (mm)				0.30		

## Offshore Pensacola, FL (PEN92-03)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 175 cm 8-23-92 1-31-94 SA/RH

X Position : 30105.97 Y Position : 87119.15

Elevation of Top of Core : 107'  
Length of Core : 2.22 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 12.957 Final Weight : 12.851 Deviation : 0.818 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.293	10.061	77.869		
-0.25	1.189	0.824	6.412	6.412	2.25	0.210	0.534	4.155	82.025		
0.00	1.000	0.292	2.272	8.684	2.50	0.177	0.575	5.253	87.277		
0.25	0.841	0.309	3.961	12.645	2.75	0.149	0.511	3.976	91.254		
0.50	0.707	0.518	4.031	16.676	3.00	0.125	0.520	4.046	95.300		
0.75	0.595	0.939	7.307	23.983	3.25	0.105	0.402	3.128	98.428		
1.00	0.500	1.924	14.972	38.954	3.50	0.088	0.115	0.895	99.323		
1.25	0.420	1.724	13.415	52.369	3.75	0.074	0.049	0.381	99.704		
1.50	0.354	1.020	7.937	60.307	4.00	0.063	0.025	0.195	99.899		
1.75	0.297	0.964	7.501	67.808	4.25	0.053	0.013	0.101	100.000		

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	fine	medium	fine		
Wentworth Classification	0.000	38.954	38.915	22.029	0.101	0.000
Unified Classification	0.000	0.000	52.169	47.135	0.296	0.000
Standard Statistics :	Median		Mean	Dev.	Skew	Kurt
Method of Moments (PHI)	1.21		1.33	0.93	0.21	2.61
Folk Graphic Measures (PHI)	0.43		1.34	0.97	0.14	1.16
Grain Size (mm)				0.40		

## Offshore Pensacola, FL (PEN92-03)

Locality Shelf Type Sand Sample 200 cm Date 8-23-92 Profile 1-31-94 Analysis Date 8A/RH  
 X Position : 30:05.97 Y Position : 87:19.15  
 Elevation of Top of Core : 107'  
 Length of Core : 2.22 m  
 Depth to Top of Sample : 195 cm  
 Depth to Bottom of Sample : 205 cm  
 Comments : Thuy Bul

Start Weight : 13.481 Final Weight : 13.357 Deviation : 0.920 %			
PHI	MM	Weight Percent	Cumul Percent
-0.50	1.414	0.000	0.000
-0.25	1.189	0.000	0.000
0.00	1.000	0.000	0.000
0.25	0.841	0.015	0.015
0.50	0.707	0.015	0.030
0.75	0.595	0.025	0.055
1.00	0.500	0.082	0.137
1.25	0.420	0.197	0.334
1.50	0.354	0.339	0.673
1.75	0.297	0.343	1.016
2.00	0.250	0.343	1.359
2.25	0.210	1.746	3.105

Sample Content by Weight Percent :

Sample Content by Weight Percent :			
Gravel			
coarse	medium	fine	clay
Wentworth Classification	0.000	42.510	37.314
Unified Classification	0.000	54.930	44.823
Standard Statistics :			
Median	Mean	Dev.	Skew
1.15	1.24	0.94	0.20
Method of Moments (PHI)	1.15	1.22	0.99
Polk Graphic Measures (PHI)	0.45	0.42	0.10
Grain Size (mm)			1.09

Method of Moments (PHI)  
 Polk Graphic Measures (PHI)  
 Grain Size (mm)

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 5 cm Date 8-23-92 Profile 4-15-94 Analysis Date 7B/RH  
 X Position : 30:02.34 Y Position : 87:25.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.16 m  
 Depth to Top of Sample : 0 cm  
 Depth to Bottom of Sample : 10 cm  
 Comments : Thuy Bul

Start Weight : 11.088 Final Weight : 11.046 Deviation : 0.379 %			
PHI	MM	Weight Percent	Cumul Percent
-0.25	1.189	0.000	0.000
0.00	1.000	0.002	0.002
0.25	0.841	0.015	0.017
0.50	0.707	0.015	0.032
0.75	0.595	0.025	0.057
1.00	0.500	0.082	0.139
1.25	0.420	0.197	0.336
1.50	0.354	0.339	0.675
1.75	0.297	0.343	1.018
2.00	0.250	0.343	1.361
2.25	0.210	1.746	3.107

Sample Content by Weight Percent :

Sample Content by Weight Percent :			
Gravel			
coarse	medium	fine	clay
Wentworth Classification	0.000	1.258	46.334
Unified Classification	0.000	0.000	52.390
Standard Statistics :			
Median	Mean	Dev.	Skew
2.04	2.08	0.43	-0.14
Method of Moments (PHI)	2.04	2.08	0.40
Polk Graphic Measures (PHI)	0.24	0.24	0.13
Grain Size (mm)			1.00

Method of Moments (PHI)  
 Polk Graphic Measures (PHI)  
 Grain Size (mm)

fine sand, well sorted,  
 coarse, skewed, n.b. spto

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
 Sand 25 cm 8-23-92 4-8-94 TB/RM  
 X Position : 30:02.34 Y Position : 87:25.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 20 cm  
 Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.034 Final Weight : 10.991 Deviation : 0.390 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	81.967	2.50	0.177	2.352	21.399	81.967	
0.00	1.000	0.022	0.200	0.200	91.975	2.75	0.149	1.100	10.008	91.975	
0.25	0.841	0.069	0.628	0.828	96.907	3.00	0.125	0.542	4.931	96.907	
0.50	0.707	0.064	0.592	1.410	99.026	3.25	0.105	0.233	2.120	99.026	
0.75	0.595	0.081	0.737	2.147	99.434	3.50	0.088	0.047	0.428	99.434	
1.00	0.500	0.157	1.428	3.576	99.636	3.75	0.074	0.020	0.182	99.636	
1.25	0.420	0.269	2.447	6.023	99.745	4.00	0.063	0.012	0.109	99.745	
1.50	0.354	0.443	4.031	10.054	99.800	4.25	0.053	0.006	0.055	99.800	
1.75	0.297	0.992	9.026	19.079	99.900	4.50	0.044	0.011	0.100	99.900	
2.00	0.250	3.099	28.196	47.275	100.000	4.75	0.037	0.011	0.100	100.000	
2.25	0.210	1.461	13.293	60.568							

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	3.576	43.699	52.470	0.255	0.000
Unified Classification	0.000	0.000	6.023	93.613	0.364	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)	2.05	0.54	-0.39	5.32
Folk Graphic Measures (PHI)	2.09	0.49	0.05	1.17
Grain Size (mm)	0.24	0.24		

fine sand, med. well sorted,  
 strongly coarse skewed, inter. Supts

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
 Sand 50 cm 8-23-92 4-13-94 TB/RM  
 X Position : 30:02.34 Y Position : 87:25.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 45 cm  
 Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.189 Final Weight : 11.146 Deviation : 0.384 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	86.291	2.50	0.177	2.209	19.819	86.291	
0.00	1.000	0.012	0.106	0.106	97.734	2.75	0.149	0.862	7.734	94.025	
0.25	0.841	0.037	0.332	0.440	97.874	3.00	0.125	0.429	3.849	97.874	
0.50	0.707	0.053	0.476	0.915	98.118	3.25	0.105	0.161	1.444	98.118	
0.75	0.595	0.069	0.619	1.524	98.586	3.50	0.088	0.031	0.278	98.586	
1.00	0.500	0.173	1.552	3.086	98.748	3.75	0.074	0.017	0.153	98.748	
1.25	0.420	0.353	3.167	6.253	98.839	4.00	0.063	0.010	0.090	98.839	
1.50	0.354	0.549	4.926	11.179	98.882	4.25	0.053	0.005	0.045	98.882	
1.75	0.297	1.208	10.638	22.017	98.928	4.50	0.044	0.005	0.045	98.928	
2.00	0.250	3.535	31.715	53.732	100.000	4.75	0.037	0.008	0.072	100.000	
2.25	0.210	1.420	12.740	66.472							

Sample Content by Weight Percent :

Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	3.086	50.646	46.106	0.161
Unified Classification	0.000	0.000	6.253	93.495	0.251

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)	2.02	0.50	-0.21	5.03
Folk Graphic Measures (PHI)	1.97	0.47	0.09	1.17
Grain Size (mm)	0.26	0.25		

fine sand, well sorted,  
 coarse skewed, inter. Supts

Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 75 cm Date 8-23-92 Profile Analysis Date 4-13-94 Analyz TB/RM  
X Position : 30:02.34 Y Position : 87:25.10  
Elevation of Top of Core : 96'  
Length of Core : 3.18 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm  
Comments : Thuy Bul

Start Weight : 11.214		Final Weight : 11.173		Deviation : 0.366 g	
PHI	MM	Weight	Percent	Cumul	Percent
-----					
-0.25	1.189	0.000	0.000	0.000	85.188
0.00	1.000	0.054	0.054	0.137	93.359
0.25	0.841	0.024	0.215	0.269	97.557
0.50	0.707	0.030	0.269	0.537	99.311
0.75	0.595	0.048	0.430	0.967	99.651
1.00	0.500	0.150	1.343	2.309	99.803
1.25	0.420	0.445	3.983	6.292	99.875
1.50	0.354	0.666	5.961	12.253	99.910
1.75	0.297	1.266	11.331	23.584	99.964
2.00	0.250	3.390	30.341	53.925	100.000
2.25	0.210	1.414	12.656	66.580	

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification		0.000		2.309		51.616		45.950	
Unified Classification		0.000		0.000		6.292		93.711	
Standard Statistics :				Median		Mean		Dev.	
								Skew	
								Kurt	
Method of Moments (PHI)								2.02	
Folk Graphic Measures (PHI)								-0.50	
Grain Size (mm)								0.10	
								1.14	

fine sand, well sorted,  
near symmetrical, extra. Spts

Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 100 cm Date 8-23-92 Profile Analysis Date 4-8-94 Analyz TB/RM  
X Position : 30:02.34 Y Position : 87:25.10  
Elevation of Top of Core : 96'  
Length of Core : 3.18 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm  
Comments : Thuy Bul

Start Weight : 11.014		Final Weight : 10.983		Deviation : 0.281 g	
PHI	MM	Weight	Percent	Cumul	Percent
-----					
-0.25	1.189	0.000	0.000	0.000	86.133
0.00	1.000	0.015	0.137	0.137	93.963
0.25	0.841	0.029	0.264	0.401	97.787
0.50	0.707	0.038	0.295	0.856	99.363
0.75	0.595	0.044	0.401	1.056	99.663
1.00	0.500	0.178	1.631	2.677	99.800
1.25	0.420	0.491	4.471	7.147	99.873
1.50	0.354	0.662	6.037	12.175	99.909
1.75	0.297	1.355	12.337	25.512	99.964
2.00	0.250	3.315	30.183	55.695	100.000
2.25	0.210	1.335	12.155	67.850	

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification		0.000		2.677		53.018		44.177	
Unified Classification		0.000		0.000		7.147		92.852	
Standard Statistics :				Median		Mean		Dev.	
								Skew	
								Kurt	
Method of Moments (PHI)								2.00	
Folk Graphic Measures (PHI)								-0.51	
Grain Size (mm)								0.08	
								1.14	

red sand, well sorted,  
near symmetrical, extra. Spts

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf	Type Sand	Sample 125 cm	Date 8-23-92	Profile	Analysis Date 4-13-94	Analyst TB/RH			
X Position : 30:02.34 Y Position : 87:25.10									
Elevation of Top of Core : 96'									
Length of Core : 3.18 m									
Depth to Top of Sample : 120 cm									
Depth to Bottom of Sample : 130 cm									
Comments : Thuy Bui									
Start Weight : 11.501		Final Weight : 11.484		Deviation : 0.148 g					
PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.823	15.874	89.481
0.00	1.000	0.007	0.061	0.061	2.75	0.149	0.690	6.008	95.489
0.25	0.841	0.038	0.331	0.392	3.00	0.125	0.334	2.908	98.398
0.50	0.707	0.035	0.305	0.697	3.25	0.105	0.130	1.132	99.530
0.75	0.595	0.057	0.496	1.193	3.50	0.088	0.025	0.218	99.747
1.00	0.500	0.254	2.212	3.405	3.75	0.074	0.014	0.122	99.869
1.25	0.420	0.651	5.756	9.161	4.00	0.063	0.007	0.061	99.930
1.50	0.354	0.828	7.210	16.371	4.25	0.053	0.003	0.026	99.956
1.75	0.297	1.929	16.787	33.168	4.50	0.044	0.004	0.035	99.991
2.00	0.250	3.479	30.294	63.462	4.75	0.037	0.001	0.009	100.000
2.25	0.210	1.165	10.145	73.607					

Sample Content by Weight Percent :

Gravel	coarse	Sand medium	fine	Silt	Clay
Weightworth Classification	0.000	3.405	60.057	36.468	0.070
Unified Classification	0.000	0.000	9.161	90.709	0.131
Standard Statistics :					
Method of Moments (PHI)		Median	Mean	Dev.	Skew
Folk Graphic Measures (PHI)					
Grain Size (mm)					

med. sand, well sorted,  
near symmetrical, silt, silt.

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf	Type Sand	Sample 150 cm	Date 8-23-92	Profile	Analysis Date 4-13-94	Analyst TB/RH
X Position : 30:02.34 Y Position : 87:25.10						
Elevation of Top of Core : 96'						
Length of Core : 3.18 m						
Depth to Top of Sample : 145 cm						
Depth to Bottom of Sample : 155 cm						
Comments : Thuy Bui						
Start Weight : 11.338 Final Weight : 11.316 Deviation : 0.194 g						

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.978	8.643	74.841
0.00	1.000	0.002	0.027	0.027	2.50	0.177	0.690	6.008	80.849
0.25	0.761	0.043	0.380	0.407	2.75	0.149	0.334	2.908	83.757
0.50	0.577	0.093	0.804	0.436	3.00	0.125	0.130	1.132	84.889
0.75	0.505	0.091	0.780	0.440	3.25	0.105	0.148	1.280	86.169
1.00	0.500	0.389	3.438	0.478	3.50	0.088	0.032	0.292	86.461
1.25	0.420	0.901	7.962	12.840	3.75	0.074	0.015	0.133	86.594
1.50	0.354	0.966	8.537	21.377	4.00	0.063	0.006	0.053	86.647
1.75	0.257	1.817	16.057	37.434	4.25	0.053	0.003	0.027	86.673
2.00	0.250	3.255	28.765	66.198	4.50	0.044	0.003	0.027	100.000

Sample Content by Weight Percent :

Gravel	coarse	Sand medium	fine	Silt	Clay
Weightworth Classification	0.000	4.878	61.320	33.749	0.053
Unified Classification	0.000	0.000	12.840	87.054	0.106
Standard Statistics :					
Method of Moments (PHI)		Median	Mean	Dev.	Skew
Folk Graphic Measures (PHI)					
Grain Size (mm)					

med. sand, well sorted,  
near symmetrical, silt, silt.

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 175 cm Date 8-23-92 Profile Analysis Date 4-12-94 TB/RM  
 X Position : 30102.34 Y Position : 87125.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 170 cm  
 Depth to Bottom of Sample : 180 cm  
 Comments : Thuy Bui

Start Weight :	11.119	Final Weight :	11.111	Deviation :	0.072 %
PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	7.353	79.210
0.00	1.000	0.005	0.045	2.250	0.210
0.25	0.841	0.037	0.243	2.500	0.177
0.50	0.707	0.030	0.270	2.750	0.149
0.75	0.595	0.037	0.270	3.000	0.125
1.00	0.500	0.463	4.167	3.250	0.105
1.25	0.420	0.912	8.208	3.500	0.088
1.50	0.354	0.921	8.269	3.750	0.074
1.75	0.297	2.451	22.059	4.000	0.063
2.00	0.250	3.078	27.702	4.250	0.053
				4.50	0.044

## Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	5.598	66.259	28.143	0.000	0.000
Unified Classification	0.000	0.000	13.806	86.198	0.036	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)						
Folk Graphic Measures (PHI)	1.80	1.82	0.52	0.04	1.23	
Grain Size (mm)	0.29	0.28				

med. sand, med. well sorted,  
 near symmetrical, silt... 96%

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 200 cm Date 8-23-92 Profile Analysis Date 4-11-94 TB/RM  
 X Position : 30102.34 Y Position : 87125.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 193 cm  
 Depth to Bottom of Sample : 205 cm  
 Comments : Thuy Bui

Start Weight :	11.691	Final Weight :	11.627	Deviation :	0.547 %
PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	7.311	76.623
0.00	1.000	0.008	0.069	2.250	0.210
0.25	0.841	0.037	0.318	2.500	0.177
0.50	0.707	0.080	0.688	2.750	0.149
0.75	0.595	0.233	1.918	3.000	0.125
1.00	0.500	0.756	6.502	3.250	0.105
1.25	0.420	1.203	10.347	3.500	0.088
1.50	0.354	1.079	9.280	3.750	0.074
1.75	0.297	1.620	13.933	4.000	0.063
2.00	0.250	3.053	26.258	4.250	0.053
				4.50	0.044

## Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	9.495	59.818	30.618	0.069	0.000
Unified Classification	0.000	0.000	19.842	80.029	0.129	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)						
Folk Graphic Measures (PHI)	1.82	1.79	0.60	-0.05	0.98	
Grain Size (mm)	0.28	0.29				

med. sand, med. well sorted,  
 near symmetrical, silt... 96%

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
 8-23-92 8-23-92 4-11-94 TB/RH

X Position : 30:02.34 Y Position : 87:25.10

Elevation of Top of Core : 96'  
 Length of Core : 3.16 m  
 Depth to Top of Sample : 220 cm  
 Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 11.962 Final Weight : 11.936 Deviation : 0.217 %					
PHI	MM	Weight Percent	Cumul Percent	PHI	MM
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	2.25	0.210
0.00	1.000	0.016	0.134	2.50	0.177
0.25	0.841	0.065	0.679	2.75	0.149
0.50	0.707	0.103	0.863	3.00	0.125
0.75	0.595	0.249	2.086	3.25	0.105
1.00	0.500	0.804	6.736	3.50	0.088
1.25	0.420	1.212	10.154	3.75	0.074
1.50	0.354	1.031	8.638	4.00	0.063
1.75	0.297	2.031	17.016	4.25	0.053
2.00	0.250	3.199	26.801	4.50	0.044
			72.973		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification	0.000	10.364	62.609	26.994	0.034	0.000			
Unified Classification	0.000	0.000	20.518	79.415	0.067	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		1.75		0.57		-0.06		3.23			
Folk Graphic Measures (PHI)		1.79		0.59		-0.06		1.09			
Grain Size (mm)		0.29		0.30							

med. sand, med. well sorted,  
 near asymmetrical, extr. s. s. s. s.

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
 8-23-92 8-23-92 4-11-94 TB/RH

X Position : 30:02.34 Y Position : 87:25.10

Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 245 cm  
 Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.188 Final Weight : 11.142 Deviation : 0.411 %					
PHI	MM	Weight Percent	Cumul Percent	PHI	MM
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	2.50	0.177
0.00	1.000	0.035	0.314	2.75	0.149
0.25	0.841	0.141	1.458	3.00	0.125
0.50	0.707	0.237	3.207	3.25	0.105
0.75	0.595	0.425	3.814	3.50	0.088
1.00	0.500	1.007	9.038	3.75	0.074
1.25	0.420	1.218	10.932	4.00	0.063
1.50	0.354	0.934	8.383	4.25	0.053
1.75	0.297	1.951	13.920	4.50	0.044
2.00	0.250	2.509	22.518	4.75	0.037
2.25	0.210	0.850	7.629		
			79.941		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification	0.000	16.559	55.753	27.688	0.000	0.000			
Unified Classification	0.000	0.000	27.491	72.474	0.036	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		1.75		0.64		-0.12		2.78			
Folk Graphic Measures (PHI)		1.75		0.66		-0.11		0.97			
Grain Size (mm)		0.30		0.31							

med. sand, med. well sorted,  
 coarse - skewed, young s. s. s. s.



## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 275 cm Date 8-23-92 Profile Analysis Data TB/RM 4-11-94  
 X Position : 30:02.34 Y Position : 87:25.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 270 cm  
 Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight :	11.148	Final Weight :	11.120	Deviation :	0.251 %
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.25	1.189	0.000	0.000	0.000	92.167
0.00	1.000	0.232	2.086	0.232	96.187
0.25	0.841	0.464	4.173	6.259	98.408
0.50	0.707	0.441	3.966	10.225	99.523
0.75	0.595	0.683	6.142	16.367	99.802
1.00	0.500	1.245	11.196	27.563	99.910
1.25	0.420	1.159	10.423	37.986	99.964
1.50	0.354	0.855	7.689	45.674	99.982
1.75	0.297	1.195	10.746	56.421	100.000
2.00	0.250	2.210	19.874	76.295	100.000
2.25	0.210	0.645	5.800	82.095	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Hentworth Classification	0.000	27.563	48.732	21.669	0.036	0.000	
Unified Classification	0.000	0.000	37.986	61.924	0.090	0.000	
Standard Statistics :							
		Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)							
Folk Graphic Measures (PHI)		1.60	1.54	0.75	-0.10	2.53	
Grain Size (mm)		0.33	0.35	0.77	-0.12	0.98	

med sand, med. silt, clay  
 coarse - silty, green, grey

## Offshore Pensacola, FL (PEN-92-04)

Locality Shelf Type Sand Sample 300 cm Date 8-23-92 Profile Analysis Data TB/RM 4-25-94  
 X Position : 30:02.34 Y Position : 87:25.10  
 Elevation of Top of Core : 96'  
 Length of Core : 3.18 m  
 Depth to Top of Sample : 295 cm  
 Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight :	11.208	Final Weight :	11.192	Deviation :	0.143 %
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
0.00	1.000	0.000	0.000	0.000	80.915
0.25	0.841	0.104	0.929	0.929	90.368
0.50	0.707	0.209	1.867	2.797	95.415
0.75	0.595	0.332	2.966	5.763	98.731
1.00	0.500	0.702	6.272	12.035	99.455
1.25	0.420	0.768	6.862	18.897	99.823
1.50	0.384	0.696	6.219	25.116	99.920
1.75	0.297	1.030	9.203	34.319	100.000
2.00	0.250	2.359	21.078	55.397	100.000
2.25	0.210	1.146	10.239	65.636	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
Hentworth Classification	0.000	12.035	43.361	44.603	0.000	0.000	
Unified Classification	0.000	0.000	18.897	80.924	0.179	0.000	
Standard Statistics :							
		Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)							
Folk Graphic Measures (PHI)		1.94	1.89	0.69	-0.28	2.79	
Grain Size (mm)		0.26	0.27	0.70	-0.10	1.03	

med. sand, med. silt, clay  
 coarse - silty, green, grey

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Offshore Pensacola (PEN-92-05)

Locality Shelf	Type Sand	Sample 5 cm	Date 8-23-92	Profile	Analysis Date 9-15-93	Analys TB/RM
X Position : 30:08.54		Y Position : 87:33.32				
Elevation of Top of Core		: 77'				
Length of Core		: 255				
Depth to Top of Sample		: 0 cm				
Depth to Bottom of Sample		: 10 cm				

Comments : Thuy Bul

Start Weight : 12.164 Final Weight : 12.132 Deviation : 0.263 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.624	13.386	10.943
0.00	1.000	0.014	0.115	0.115	2.75	0.149	1.862	15.348	46.291
0.25	0.841	0.043	0.354	0.470	3.00	0.125	2.028	16.716	63.007
0.50	0.707	0.062	0.511	0.981	3.25	0.105	2.561	21.109	84.116
0.75	0.595	0.071	0.585	1.566	3.50	0.088	0.991	8.168	92.285
1.00	0.500	0.159	1.311	2.877	3.75	0.074	0.575	4.740	97.024
1.25	0.420	0.189	1.598	4.435	4.00	0.063	0.250	2.061	99.085
1.50	0.354	0.154	1.269	5.704	4.25	0.053	0.054	0.445	99.530
1.75	0.297	0.225	1.855	7.559	4.50	0.044	0.024	0.198	99.728
2.00	0.250	0.634	5.226	12.784	4.75	0.037	0.033	0.272	100.000
2.25	0.210	0.579	4.773	17.557					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	2.877	9.908	86.301	0.915	0.000
Unified Classification	0.000	0.000	4.435	92.590	2.976	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.71	0.67	-0.98	4.92
Folk Graphic Measures (PHI)	2.81	2.74	0.62	-0.22	1.24
Grain Size (mm)	0.14	0.15			

Offshore Pensacola (PEN-92-05)

Locality Shelf	Type Sand	Sample 25 cm	Date 8-23-92	Profile	Analysis 9-15-93	Date 9-15-93	Analys TB/RM
X Position		: 30:08.54		Y Position		: 87:33.32	
		Elevation of Top of Core		: 77'			
		Length of Core		: 255			
		Depth to Top of Sample		: 20 cm			
		Depth to Bottom of Sample		: 30 cm			

Comments : Thuy Bul

Start Weight : 10.362 Final Weight : 10.295 Deviation : 0.647 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.158	11.248	35.930
0.00	1.000	0.044	0.427	0.427	2.75	0.149	1.228	11.928	47.858
0.25	0.841	0.119	1.156	1.583	3.00	0.125	1.388	13.482	61.340
0.50	0.707	0.104	1.010	2.593	3.25	0.105	2.047	19.883	81.224
0.75	0.595	0.143	1.389	3.983	3.50	0.088	0.385	3.740	84.964
1.00	0.500	0.291	2.827	6.809	3.75	0.074	0.703	6.829	91.792
1.25	0.420	0.268	2.603	9.412	4.00	0.063	0.421	4.089	95.881
1.50	0.354	0.210	2.040	11.452	4.25	0.053	0.155	1.506	97.387
1.75	0.297	0.256	2.487	13.939	4.50	0.044	0.105	1.020	98.407
2.00	0.250	0.632	6.139	20.078	4.75	0.037	0.164	1.593	100.000
2.25	0.210	0.474	4.604	24.682					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	6.809	13.269	75.804	4.119	0.000
Unified Classification	0.000	0.000	9.412	82.380	8.208	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.65	0.90	-0.65	3.60
Folk Graphic Measures (PHI)	2.79	2.69	0.87	-0.22	1.39
Grain Size (mm)	0.14	0.16			

Offshore Pensacola (PEN-92-05)									
Locality Shelf	Type Sand	Sample 50 cm	Date 8-23-92	Profile	Analysis Date 9-15-93	Analyst TB/RH			
		X Position : 30108.54	Y Position : 87133.32						
		Elevation of Top of Core : 77'							
		Length of Core : 255							
		Depth to Top of Sample : 45 cm							
		Depth to Bottom of Sample : 55 cm							
Comments : Thuy Bui									
Start Weight : 7.414		Final Weight : 7.296		Deviation : 1.592 %					
PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	0.215	2.947	13.829
0.00	1.000	0.016	0.219	0.219	2.75	0.149	0.220	3.015	16.845
0.25	0.841	0.026	0.356	0.575	3.00	0.125	0.371	5.085	21.930
0.50	0.707	0.038	0.509	0.984	3.25	0.105	1.249	17.119	39.049
0.75	0.595	0.044	0.603	1.563	3.50	0.088	1.278	18.887	57.936
1.00	0.500	0.089	1.220	2.782	3.75	0.074	1.282	17.571	75.507
1.25	0.420	0.107	1.467	4.249	4.00	0.061	1.010	13.843	89.350
1.50	0.354	0.080	1.096	5.345	4.25	0.053	0.296	4.057	93.407
1.75	0.297	0.095	1.302	6.647	4.50	0.044	0.152	2.083	95.491
2.00	0.250	0.194	2.659	9.306	4.75	0.037	0.329	4.509	100.000
2.25	0.210	0.115	1.576	10.883					
Sample Content by Weight Percent :									
		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification		0.000		2.782		6.524		80.044	
Unified Classification		0.000		0.000		4.249		71.258	
Standard Statistics :									
		Median		Mean		Dev.		Skew	
Method of Moments (PHI)									
Folk Graphic Measures (PHI)									
Grain Size (mm)									

## Offshore Pensacola (PEN-92-05)

Locality Shelf  
Type Sand  
Sample 100 cm  
Date 8-23-92  
Profile  
Analysis Date 9-21-93  
TD/RM  
X Position : 30:08.54 Y Position : 87:33.32  
Elevation of Top of Core : 77'  
Length of Core : 235  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 2.148				Final Weight : 2.118				Deviation : 1.397 %			
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	PHI	MM	Weight	Percent
-0.25	1.189	0.000	0.000	2.50	0.177	0.155	7.318	36.261			
0.00	1.000	0.021	0.992	2.75	0.149	0.155	7.318	43.573			
0.25	0.841	0.050	2.361	3.00	0.125	0.203	9.585	53.163			
0.50	0.707	0.032	1.511	3.25	0.105	0.371	17.517	70.680			
0.75	0.595	0.037	1.747	3.50	0.088	0.217	10.246	80.925			
1.00	0.500	0.071	3.352	3.75	0.074	0.187	8.829	89.753			
1.25	0.420	0.069	3.258	4.00	0.063	0.120	5.666	95.420			
1.50	0.354	0.052	2.455	4.25	0.053	0.030	1.416	96.837			
1.75	0.297	0.068	3.211	4.50	0.044	0.025	1.180	98.017			
2.00	0.250	0.132	6.232	4.75	0.037	0.042	1.983	100.000			
2.25	0.210	0.081	3.824								

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	9.963	15.156	70.102	4.580	0.000		
0.000	0.000	13.220	76.334	10.246	0.000		

Standard Statistics :

Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.64	1.05	-0.71	2.98				
Folk Graphic Measures (PHI)		2.92	2.68	1.04	-0.37	1.04			
Grain Size (mm)		0.13	0.16						

## Offshore Pensacola (PEN-92-05)

Locality Shelf  
Type Sand  
Sample 125 cm  
Date 8-23-92  
Profile  
Analysis Date 9-21-93  
TD/RM  
X Position : 30:08.54 Y Position : 87:33.32  
Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 12.030				Final Weight : 11.974				Deviation : 0.466 %			
PHI	MM	Weight	Percent	PHI	MM	Weight	Percent	Cumul	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	2.50	0.177	1.732	14.465	9.942			
0.00	1.000	0.086	0.718	2.75	0.149	1.539	12.853	43.794			
0.25	0.841	0.132	1.269	3.00	0.125	1.446	12.076	74.871			
0.50	0.707	0.163	1.361	3.25	0.105	1.700	14.197	89.068			
0.75	0.595	0.221	1.846	3.50	0.088	0.657	5.487	94.555			
1.00	0.500	0.461	3.850	3.75	0.074	0.397	3.316	97.870			
1.25	0.420	0.451	3.766	4.00	0.063	0.173	1.445	99.315			
1.50	0.354	0.364	3.040	4.25	0.053	0.038	0.317	99.775			
1.75	0.297	0.472	3.942	4.50	0.044	0.017	0.142	99.633			
2.00	0.250	1.102	9.203	4.75	0.037	0.027	0.225	100.000			
2.25	0.210	0.776	6.481								

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	9.045	19.952	70.319	0.685	0.000		
0.000	0.000	12.811	85.059	2.130	0.000		

Standard Statistics :

Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.37	0.85	-0.68	3.20				
Folk Graphic Measures (PHI)		2.50	2.39	0.84	-0.23	1.04			
Grain Size (mm)		0.18	0.19						

## Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 150 cm Date 8-23-92 Profile Analysis Date 9-21-93 Analyz TB/RH

X Position : 10:08.54 Y Position : 87:33.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 12.670 Final Weight : 12.636 Deviation : 0.268 t

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	39.339	2.50	0.177	2.450	19.389	39.339	100.000
0.00	1.000	0.013	0.103	0.103	56.917	2.75	0.149	2.235	17.688	56.917	100.000
0.25	0.841	0.025	0.198	0.301	72.752	3.00	0.125	2.000	15.836	72.752	100.000
0.50	0.707	0.031	0.245	0.546	89.055	3.25	0.105	2.060	16.203	89.055	100.000
0.75	0.595	0.035	0.277	0.823	94.650	3.50	0.088	0.707	5.595	94.650	100.000
1.00	0.500	0.081	0.641	1.464	97.990	3.75	0.074	0.422	3.340	97.990	100.000
1.25	0.420	0.101	0.799	2.263	99.367	4.00	0.063	0.174	1.377	99.367	100.000
1.50	0.354	0.110	0.871	3.134	99.668	4.25	0.053	0.038	0.301	99.668	100.000
1.75	0.297	0.209	1.654	4.788	99.802	4.50	0.044	0.017	0.135	99.802	100.000
2.00	0.250	0.958	7.582	12.369	100.000	4.75	0.037	0.025	0.198	100.000	100.000
2.25	0.210	0.944	7.471	19.840							

Sample Content by Weight Percent :

Gravel	Sand coarse	Sand medium	Sand fine	Silt	Clay
0.000	1.464	10.905	86.997	0.633	0.000
0.000	0.000	2.263	95.726	2.010	0.000

Standard Statistics :

Method of Moments (PHI)	Mean	Dev.	Skew	Kurt
2.65	2.64	0.58	-0.58	4.93
0.16	0.16	0.53	-0.01	1.01

Folk Graphic Measures (PHI)  
Grain Size (mm)

## Offshore Pensacola (PEN-92-06)

Locality Shelf Type Sand Sample 173 Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RH

X Position : 10:08.54 Y Position : 87:33.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 171  
Depth to Bottom of Sample : 176

Comments : Thuy Bui

Start Weight : 12.670 Final Weight : 12.608 Deviation : 0.489 t

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.50	1.414	0.000	0.000	0.000	63.063	2.50	0.177	1.048	8.312	63.063	100.000
-0.25	1.189	0.048	0.381	0.381	73.247	2.75	0.149	1.284	10.184	73.247	100.000
0.00	1.000	0.128	1.015	1.396	88.814	3.00	0.125	0.828	6.567	88.814	100.000
0.25	0.841	0.320	2.538	3.934	90.879	3.25	0.105	1.395	11.064	90.879	100.000
0.50	0.707	0.377	2.990	6.924	95.273	3.50	0.088	0.554	4.394	95.273	100.000
0.75	0.595	0.640	5.076	12.000	97.216	3.75	0.074	0.245	1.943	97.216	100.000
1.00	0.500	1.233	9.780	21.780	98.644	4.00	0.063	0.180	1.428	98.644	100.000
1.25	0.420	1.095	8.685	30.465	99.120	4.25	0.053	0.060	0.476	99.120	100.000
1.50	0.354	0.634	5.039	35.493	99.413	4.50	0.044	0.037	0.293	99.413	100.000
1.75	0.297	0.645	5.116	40.609	99.619	4.75	0.037	0.026	0.206	99.619	100.000
2.00	0.250	1.048	8.312	48.921		5.00	0.031	0.048	0.381	100.000	100.000
2.25	0.210	0.735	5.830	54.751							

Sample Content by Weight Percent :

Gravel	Sand coarse	Sand medium	Sand fine	Silt	Clay
0.000	21.780	27.141	49.722	1.356	0.000
0.000	0.000	30.465	66.751	2.784	0.000

Standard Statistics :

Method of Moments (PHI)	Mean	Dev.	Skew	Kurt
2.05	1.99	1.03	-0.03	2.22
0.24	2.00	1.04	-0.08	0.75

Folk Graphic Measures (PHI)  
Grain Size (mm)

## Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 178 Date 8-23-92 Profile Analysis Date 8-10-93 Analysis Date 78/RM  
 X Position : 30:08.54 Y Position : 87:33.32  
 Elevation of Top of Core : 77'  
 Length of Core : 255  
 Depth to Top of Sample : 176  
 Depth to Bottom of Sample : 181  
 Comments : Thuy Bul

Start Weight : 12.033 Final Weight : 11.889 Deviation : 1.197 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-----	-----	-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	66.675	2.50	0.177
-0.25	1.189	0.163	1.371	1.371	67.964	2.75	0.149
0.00	1.000	0.307	2.582	3.953	69.564	3.00	0.125
0.25	0.841	0.527	4.433	6.386	70.966	3.25	0.105
0.50	0.707	0.539	4.534	12.920	72.500	3.50	0.088
0.75	0.595	0.746	6.275	19.194	74.063	3.75	0.074
1.00	0.500	1.167	9.816	29.010	75.329	4.00	0.063
1.25	0.420	0.891	7.494	36.504	76.413	4.25	0.053
1.50	0.354	0.567	4.769	41.273	77.083	4.50	0.044
1.75	0.297	0.575	4.836	46.110	77.698	4.75	0.037
2.00	0.250	0.919	7.730	53.840	78.294	5.00	0.031
2.25	0.210	0.515	4.332	58.171	79.084		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification		0.000	29.010	24.830	43.923	2.237	0.000		
Unified Classification		0.000	0.000	36.504	59.845	3.650	0.000		
Standard Statistics :		Median		Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)				1.86	1.15	0.09	2.19		
Folk Graphic Measures (PHI)				1.88	1.57	-0.02	0.77		
Grain Size (mm)				0.27	0.28				

## Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 183 Date 8-23-92 Profile Analysis Date 8-11-93 Analysis Date 78/RM  
 X Position : 30:08.54 Y Position : 87:33.32  
 Elevation of Top of Core : 77'  
 Length of Core : 255  
 Depth to Top of Sample : 181  
 Depth to Bottom of Sample : 186  
 Comments : Thuy Bul

Start Weight : 12.142 Final Weight : 11.973 Deviation : 1.392 %							
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM
-----	-----	-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	55.333	2.50	0.177
-0.25	1.189	0.363	3.032	3.032	61.364	2.75	0.149
0.00	1.000	0.437	3.483	6.515	63.819	3.00	0.125
0.25	0.841	0.510	4.250	10.774	65.333	3.25	0.105
0.50	0.707	0.463	3.859	14.633	66.833	3.50	0.088
0.75	0.595	0.561	4.686	19.318	68.400	3.75	0.074
1.00	0.500	0.807	6.740	26.059	69.200	4.00	0.063
1.25	0.420	0.598	4.935	31.053	70.133	4.25	0.053
1.50	0.354	0.369	3.062	34.115	71.200	4.50	0.044
1.75	0.297	0.430	3.591	37.727	72.733	4.75	0.037
2.00	0.250	0.785	6.556	44.283	74.266	5.00	0.031
2.25	0.210	0.449	3.750	48.033	75.016		

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification		0.000	26.059	18.224	52.184	3.533	0.000		
Unified Classification		0.000	0.000	31.053	63.050	5.897	0.000		
Standard Statistics :		Median		Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)				2.32	2.07	-0.22	2.10		
Folk Graphic Measures (PHI)				2.32	2.05	-0.27	0.76		
Grain Size (mm)				0.20	0.24				

Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 188 Date 8-23-92 Profile Analysis Date 8-10-93 Analyz TB/RM

X Position : 30:08.54 Y Position : 87:33.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 186  
Depth to Bottom of Sample : 191

Comments : Thuy Bui

Start Weight : 12.017 Final Weight : 11.821 Deviation : 1.631 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.056	8.933	62.093
-0.25	1.189	0.219	1.853	1.853	2.75	0.149	0.893	7.554	69.647
0.00	1.000	0.458	3.874	5.727	3.00	0.125	0.932	7.884	77.532
0.25	0.841	0.582	4.923	10.651	3.25	0.105	1.286	10.879	88.410
0.50	0.707	0.485	4.103	14.753	3.50	0.088	0.541	4.577	92.987
0.75	0.595	0.650	5.499	20.252	3.75	0.074	0.408	3.451	96.439
1.00	0.500	0.905	7.656	27.908	4.00	0.063	0.195	1.650	98.088
1.25	0.420	0.692	5.854	33.762	4.25	0.053	0.077	0.651	98.740
1.50	0.354	0.440	3.722	37.484	4.50	0.044	0.052	0.440	99.179
1.75	0.297	0.498	4.213	41.697	4.75	0.037	0.032	0.271	99.450
2.00	0.250	0.847	7.165	48.862	5.00	0.031	0.065	0.550	100.000
2.25	0.210	0.508	4.297	53.160					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	27.908	20.954	49.226
Unified Classification	0.000	0.000	33.762	62.677

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.93	1.19	-0.12	2.06
Folk Graphic Measures (PHI)	2.07	1.92	1.21	-0.15	0.75
Grain Size (mm)	0.24	0.26			

Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 193 Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RM

X Position : 30:08.54 Y Position : 87:33.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 191  
Depth to Bottom of Sample : 196

Comments : Thuy Bui

Start Weight : 12.719 Final Weight : 12.617 Deviation : 0.802 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.082	8.576	59.039
-0.25	1.189	0.216	1.870	1.870	2.75	0.149	0.909	7.205	66.244
0.00	1.000	0.395	3.131	5.001	3.00	0.125	0.915	7.252	73.496
0.25	0.841	0.643	5.096	10.097	3.25	0.105	1.594	12.634	86.130
0.50	0.707	0.558	4.423	14.520	3.50	0.088	0.662	5.247	91.377
0.75	0.595	0.701	5.556	20.076	3.75	0.074	0.490	3.884	95.260
1.00	0.500	0.908	7.197	27.273	4.00	0.063	0.251	1.989	97.250
1.25	0.420	0.642	5.088	32.361	4.25	0.053	0.110	0.872	98.122
1.50	0.354	0.462	3.662	36.023	4.50	0.044	0.093	0.737	98.859
1.75	0.297	0.460	3.446	39.689	4.75	0.037	0.050	0.396	99.255
2.00	0.250	0.854	6.769	46.437	5.00	0.031	0.094	0.745	100.000
2.25	0.210	0.508	4.026	50.464					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	27.273	19.165	50.812
Unified Classification	0.000	0.000	32.361	62.899

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.00	1.22	-0.15	2.05
Folk Graphic Measures (PHI)	2.22	2.00	1.23	-0.22	0.73
Grain Size (mm)	0.21	0.25			

## Offshore Pensacola (PEN-92-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 198 8-23-92 8-10-93 TP/RH

X Position : 30.08.54 Y Position : 87.13.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 196  
Depth to Bottom of Sample : 201

Comments : Thuy Bul

Start Weight : 12.774 Final Weight : 12.587 Deviation : 1.464 %									
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent
-0.50	1.414	0.000	0.000	0.000	0.000	2.50	0.177	1.121	8.906
-0.25	1.189	0.248	1.970	1.970	15.607	2.75	0.149	0.962	7.643
0.00	1.000	0.411	3.265	5.236	41.114	3.00	0.125	1.070	8.501
0.25	0.841	0.573	4.552	9.788	75.751	3.25	0.105	1.504	11.949
0.50	0.707	0.476	3.782	13.570	85.700	3.50	0.088	0.619	4.918
0.75	0.595	0.614	4.878	18.448	90.617	3.75	0.074	0.454	3.607
1.00	0.500	0.862	6.848	25.296	94.424	4.00	0.063	0.244	1.939
1.25	0.420	0.643	5.108	30.404	96.163	4.25	0.053	0.127	1.009
1.50	0.354	0.403	3.202	33.606	97.172	4.50	0.044	0.105	0.834
1.75	0.297	0.470	3.734	37.340	98.006	4.75	0.037	0.070	0.556
2.00	0.250	0.863	7.015	44.355	98.562	5.00	0.031	0.181	1.438
2.25	0.210	0.547	4.346	48.701	100.000				

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification	0.000	25.296	19.059	51.807	3.837	0.000			
Unified Classification	0.000	0.000	30.404	63.820	5.776	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.29	2.04	2.06	1.23	-0.15	2.22				
Polk Graphic Measures (PHI)		0.20	0.24	1.23	-0.24	0.78					
Grain Size (mm)											

## Offshore Pensacola (PEN-92-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 203 8-23-92 8-10-93 TP/RH

X Position : 30.08.54 Y Position : 87.13.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 201  
Depth to Bottom of Sample : 206

Comments : Thuy Bul

Start Weight : 12.024 Final Weight : 11.939 Deviation : 0.707 %									
PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent
-0.50	1.414	0.000	0.000	0.000	0.000	2.50	0.177	1.111	9.206
-0.25	1.189	0.135	1.131	1.131	9.206	2.75	0.149	0.995	8.234
0.00	1.000	0.284	2.379	3.510	29.582	3.00	0.125	1.144	9.582
0.25	0.841	0.370	3.099	6.609	55.174	3.25	0.105	1.731	14.499
0.50	0.707	0.372	3.116	9.724	80.673	3.50	0.088	0.733	6.140
0.75	0.595	0.488	4.087	13.812	115.819	3.75	0.074	0.555	4.649
1.00	0.500	0.710	5.947	19.759	165.566	4.00	0.063	0.283	2.370
1.25	0.420	0.541	4.531	24.290	200.000	4.25	0.053	0.116	0.972
1.50	0.354	0.377	3.158	27.448	229.526	4.50	0.044	0.084	0.704
1.75	0.297	0.425	3.560	31.008	259.981	4.75	0.037	0.049	0.410
2.00	0.250	0.797	6.676	37.683	310.000	5.00	0.031	0.118	0.988
2.25	0.210	0.521	4.364	42.047	349.526				

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	medium	fine					
Wentworth Classification	0.000	19.759	17.924	59.243	3.074	0.000			
Unified Classification	0.000	0.000	24.290	70.266	5.444	0.000			

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.46	2.19	2.23	1.19	-0.37	2.39				
Polk Graphic Measures (PHI)		0.18	0.21	1.16	-0.31	0.84					
Grain Size (mm)											



Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 208 Date 8-21-92 Profile 8-11-93 Analysis Date Analyz 78/94  
X Position : 30108.54 Y Position : 87133.32  
Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 206  
Depth to Bottom of Sample : 211  
Comments : Thuy Bul

Start Weight : 12.669		Final Weight : 12.470		Deviation : 1.571 %	
PHI	MM	Weight Percent	Cumul Percent	PHI	MM
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	2.50	0.177
-0.25	1.189	0.221	1.772	2.75	0.149
0.00	1.000	0.295	2.366	3.00	0.125
0.25	0.841	0.414	3.320	3.25	0.105
0.50	0.707	0.441	3.536	3.50	0.088
0.75	0.595	0.535	4.590	3.75	0.074
1.00	0.500	0.711	5.702	4.00	0.063
1.25	0.420	0.614	4.824	4.25	0.053
1.50	0.354	0.378	3.031	4.50	0.044
1.75	0.297	0.416	3.326	4.75	0.037
2.00	0.250	0.835	6.696	5.00	0.031
2.25	0.210	0.449	3.601		

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		finu			
Wentworth Classification	0.000	20.986	17.987	55.678	5.349	0.000	
Unified Classification	0.000	0.000	25.910	66.343	7.747	0.000	
Standard Statistics :							
Median		Mean		Dev.		Kurt	
Method of Moments (PHI)		2.49		1.24		2.31	
Folk Graphic Measures (PHI)		0.18		1.25		0.84	
Grain Size (mm)		0.21					

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 211 Date 8-23-92 Profile 8-11-93 Analysis Date Analyz 78/94  
X Position : 30108.54 Y Position : 87133.32  
Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 211  
Depth to Bottom of Sample : 216  
Comments : Thuy Bul

Start Weight : 12.121		Final Weight : 11.936		Deviation : 1.526 %	
PHI	MM	Weight Percent	Cumul Percent	PHI	MM
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	2.50	0.177
-0.25	1.189	0.138	1.156	2.75	0.149
0.00	1.000	0.208	1.743	3.00	0.125
0.25	0.841	0.246	2.061	3.25	0.105
0.50	0.707	0.226	1.893	3.50	0.088
0.75	0.595	0.264	2.212	3.75	0.074
1.00	0.500	0.387	3.242	4.00	0.063
1.25	0.420	0.356	2.983	4.25	0.053
1.50	0.354	0.180	1.508	4.50	0.044
1.75	0.297	0.248	2.078	4.75	0.037
2.00	0.250	0.443	3.711	5.00	0.031
2.25	0.210	0.328	2.748		

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Wentworth Classification	0.000	12.307	10.280	72.998	4.415	0.000	
Unified Classification	0.000	0.000	15.390	76.173	8.537	0.000	
Standard Statistics :							
Median		Mean		Dev.		Kurt	
Method of Moments (PHI)		3.01		1.10		3.41	
Folk Graphic Measures (PHI)		0.12		1.10		1.39	
Grain Size (mm)		0.16					

Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 218 Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RM

X Position : 30108.54 Y Position : 87133.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 216  
Depth to Bottom of Sample : 221

Comments : Thuy Bul

Start Weight : 12.565 Final Weight : 12.432 Deviation : 1.058 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	0.835	6.717	29.505
-0.25	1.189	0.050	0.402	0.402	2.75	0.149	0.799	6.427	35.931
0.00	1.000	0.107	0.861	1.263	3.00	0.125	1.559	12.540	48.472
0.25	0.841	0.189	1.520	2.783	3.25	0.105	2.823	22.708	71.179
0.50	0.707	0.169	1.359	4.143	3.50	0.088	1.176	9.459	80.639
0.75	0.595	0.222	1.786	5.928	3.75	0.074	0.957	7.698	88.337
1.00	0.500	0.139	2.727	8.655	4.00	0.063	0.561	4.513	92.849
1.25	0.420	0.101	2.421	11.076	4.25	0.053	0.273	2.196	95.045
1.50	0.354	0.210	1.689	12.765	4.50	0.044	0.207	1.665	96.710
1.75	0.297	0.294	2.365	15.130	4.75	0.037	0.132	1.062	97.772
2.00	0.250	0.575	4.625	19.755	5.00	0.031	0.277	2.228	100.000
2.25	0.210	0.177	3.032	22.788					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	8.655	11.100	73.094
Unified Classification	0.000	0.000	11.076	77.260

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.77	1.03	-0.79	3.65
Folk Graphic Measures (PHI)	3.02	2.81	1.00	-0.33	1.46
Grain Size (mm)	0.12	0.15			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 223 Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RM

X Position : 30108.54 Y Position : 87133.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 221  
Depth to Bottom of Sample : 226

Comments : Thuy Bul

Start Weight : 12.400 Final Weight : 12.310 Deviation : 0.726 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.046	8.497	36.604
-0.25	1.189	0.029	0.236	0.236	2.75	0.149	0.889	7.222	43.826
0.00	1.000	0.081	0.658	0.894	3.00	0.125	1.188	9.651	53.477
0.25	0.841	0.184	1.495	2.388	3.25	0.105	2.668	21.673	75.150
0.50	0.707	0.174	1.413	3.802	3.50	0.088	1.454	11.812	86.962
0.75	0.595	0.286	2.323	6.125	3.75	0.074	0.732	5.946	92.908
1.00	0.500	0.514	4.175	10.301	4.00	0.063	0.515	4.184	97.092
1.25	0.420	0.395	3.209	13.509	4.25	0.053	0.115	0.934	98.026
1.50	0.354	0.293	2.380	15.890	4.50	0.044	0.108	0.877	98.903
1.75	0.297	0.342	2.778	18.668	4.75	0.037	0.054	0.439	99.342
2.00	0.250	0.717	5.825	24.492	5.00	0.031	0.081	0.658	100.000
2.25	0.210	0.445	3.615	28.107					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	10.301	14.192	72.600
Unified Classification	0.000	0.000	13.509	79.399

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.61	1.00	-0.77	3.13
Folk Graphic Measures (PHI)	2.91	2.62	0.97	-0.43	1.10
Grain Size (mm)	0.13	0.16			

Offshore Pensacola (PEH-92-05)

Locality Shelf Type Sand Sample 228 Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RH

X Position : 30:08.54 Y Position : 87:33.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 226  
Depth to Bottom of Sample : 231

Comments : Thuy Bui

Start Weight : 12.142 Final Weight : 11.949 Deviation : 1.590 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	0.916	7.666	47.494
-0.25	1.189	0.052	0.435	0.435	2.75	0.149	0.883	7.390	54.883
0.00	1.000	0.092	0.770	1.205	3.00	0.125	1.089	9.114	63.997
0.25	0.841	0.242	2.025	3.230	3.25	0.105	1.950	16.319	80.316
0.50	0.707	0.274	2.293	5.523	3.50	0.088	0.770	6.444	86.760
0.75	0.595	0.321	2.666	8.210	3.75	0.074	0.472	3.950	90.711
1.00	0.500	0.696	5.825	14.035	4.00	0.063	0.380	3.180	93.891
1.25	0.420	0.715	5.984	20.018	4.25	0.053	0.226	1.891	95.782
1.50	0.354	0.451	3.774	23.793	4.50	0.044	0.117	0.979	96.761
1.75	0.297	0.527	4.410	28.203	4.75	0.037	0.083	0.695	97.456
2.00	0.250	0.800	6.695	34.898	5.00	0.031	0.304	2.544	100.000
2.25	0.210	0.589	4.929	39.828					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	14.035	20.864	58.992	6.109	0.000
Unified Classification	0.000	0.000	20.018	70.692	9.289	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.41	1.13	-0.20	2.53
Folk Graphic Measures (PHI)	2.58	2.35	1.14	-0.23	0.95
Grain Size (mm)	0.17	0.19			

\*\*\* Silt & clay exceeds 5.0%. Fine grain analysis may be required. \*\*\*

Offshore Pensacola (PEH-92-05)

Locality Shelf Type Sand Sample 233 Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RH

X Position : 30:08.54 Y Position : 87:33.32

Elevation of Top of Core : 77'  
Length of Core : 255  
Depth to Top of Sample : 231  
Depth to Bottom of Sample : 236

Comments : Thuy Bui

Start Weight : 12.312 Final Weight : 12.133 Deviation : 1.454 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.50	0.177	1.222	10.072	54.010
-0.25	1.189	0.213	1.756	1.756	2.75	0.149	1.054	8.687	62.697
0.00	1.000	0.281	2.316	4.072	3.00	0.125	1.158	9.544	72.241
0.25	0.841	0.388	3.198	7.269	3.25	0.105	1.534	12.643	84.884
0.50	0.707	0.357	2.942	10.212	3.50	0.088	0.704	5.802	90.687
0.75	0.595	0.482	3.973	14.184	3.75	0.074	0.536	4.418	95.104
1.00	0.500	0.704	5.802	19.987	4.00	0.063	0.270	2.225	97.330
1.25	0.420	0.581	4.789	24.775	4.25	0.053	0.099	0.816	98.146
1.50	0.354	0.399	3.289	28.064	4.50	0.044	0.079	0.651	98.797
1.75	0.297	0.463	3.816	31.880	4.75	0.037	0.048	0.396	99.192
2.00	0.250	0.901	7.426	39.306	5.00	0.031	0.098	0.808	100.000
2.25	0.210	0.562	4.632	43.938					

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	19.987	19.319	58.024	2.670	0.000
Unified Classification	0.000	0.000	24.775	70.329	4.896	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.18	1.15	-0.36	2.42
Folk Graphic Measures (PHI)	2.40	2.15	1.16	-0.29	0.84
Grain Size (mm)	0.19	0.22			

## Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 238 Date 8-23-92 Profile Analysis Date 8-11-93 TB/RM  
 X Position : 30:08.54 Y Position : 87:33.32  
 Elevation of Top of Core : 77'  
 Length of Core : 255  
 Depth to Top of Sample : 236  
 Depth to Bottom of Sample : 241  
 Comments : Thuy Bui

Start Weight : 12.050		Final Weight : 11.931		Deviation : 0.988	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	56.584
-0.25	1.189	0.152	1.274	0.152	8.080
0.00	1.000	0.263	2.204	0.415	8.524
0.25	0.841	0.445	3.730	0.860	12.027
0.50	0.707	0.393	3.294	1.253	16.321
0.75	0.595	0.551	4.618	1.804	24.125
1.00	0.500	0.796	6.672	2.600	34.797
1.25	0.420	0.624	5.230	3.224	42.027
1.50	0.354	0.417	3.495	3.641	46.522
1.75	0.297	0.482	4.040	3.913	50.562
2.00	0.250	0.900	7.543	4.813	62.105
2.25	0.210	0.564	4.727	5.377	68.832

## Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	21.792	20.308	54.798	3.101	0.000		
0.000	0.000	27.022	67.723	5.255	0.000		
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
2.33		2.13	1.16	-0.23	2.30		
0.20		2.11	1.17	-0.24	0.80		
Method of Moments (PHI)							
Folk Graphic Measures (PHI)							
Grain Size (mm)							

## Offshore Pensacola (PEN-92-05)

Locality Shelf Type Sand Sample 243 Date 8-23-92 Profile Analysis Date 8-10-93 TB/RM  
 X Position : 30:08.54 Y Position : 87:33.32  
 Elevation of Top of Core : 77'  
 Length of Core : 255  
 Depth to Top of Sample : 241  
 Depth to Bottom of Sample : 246  
 Comments : Thuy Bui

Start Weight : 10.591		Final Weight : 10.451		Deviation : 1.322	
PHI	MM	Weight	Percent	Cumul	Percent
-----	-----	-----	-----	-----	-----
-0.50	1.414	0.000	0.000	0.000	41.221
-0.25	1.189	0.102	0.976	0.102	7.674
0.00	1.000	0.152	1.434	0.254	9.645
0.25	0.841	0.235	2.249	0.489	18.678
0.50	0.707	0.210	2.201	0.699	26.880
0.75	0.595	0.323	3.091	0.972	38.971
1.00	0.500	0.460	4.401	1.432	53.358
1.25	0.420	0.367	3.512	1.789	66.870
1.50	0.354	0.252	2.411	2.200	81.281
1.75	0.297	0.303	2.859	2.503	94.140
2.00	0.250	0.589	5.636	3.092	100.000
2.25	0.210	0.409	3.914	3.501	100.000

## Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
		coarse	medium	fine			
Hentworth Classification		0.000	14.372	14.458	68.596	2.574	0.000
Unified Classification		0.000	0.000	17.883	75.514	6.602	0.000
Standard Statistics :							
		Median	Mean	Dev.	Skew	Kurt	
Method of Moments (Phi)			2.47	1.10	-0.71	2.80	
Folk Graphic Measures (Phi)		2.78	2.44	1.12	-0.41	1.05	
Grain Size (mm)		0.15	0.18				

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Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sand Sample 5 cm Date 8-23-92 Profile Analysis Date 8-13-93 Analyz TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 12.085 Final Weight : 12.014 Deviation : 0.588 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.063	0.524	2.730
0.00	1.000	0.092	0.766	0.766	2.00	0.250	0.167	1.390	4.120
0.25	0.841	0.021	0.175	0.941	2.25	0.210	0.189	1.573	5.693
0.50	0.707	0.025	0.208	1.149	2.50	0.177	1.563	13.010	18.703
0.75	0.595	0.023	0.191	1.340	2.75	0.149	5.055	42.076	60.779
1.00	0.500	0.041	0.341	1.681	3.00	0.125	3.012	25.071	85.850
1.25	0.420	0.033	0.275	1.956	3.25	0.105	1.296	10.787	96.637
1.50	0.354	0.030	0.250	2.206	3.50	0.088	0.404	3.363	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	1.681	2.439	95.880	0.000	0.000
Unified Classification	0.000	0.000	1.956	98.044	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.66	0.44	-3.12	19.13
Folk Graphic Measures (PHI)	2.69	2.71	0.30	0.04	1.24
Grain Size (mm)	0.16	0.16			

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sand Sample 25 cm Date 8-23-92 Profile Analysis Date 8-13-93 Analyz TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 12.062 Final Weight : 12.027 Deviation : 0.290 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.344	2.860	4.623
0.00	1.000	0.054	0.449	0.449	2.00	0.250	1.881	15.640	20.263
0.25	0.841	0.018	0.150	0.599	2.25	0.210	1.931	16.056	36.318
0.50	0.707	0.018	0.150	0.748	2.50	0.177	4.668	38.813	75.131
0.75	0.595	0.020	0.166	0.915	2.75	0.149	1.450	12.056	87.187
1.00	0.500	0.035	0.291	1.206	3.00	0.125	1.171	9.736	96.924
1.25	0.420	0.035	0.291	1.497	3.25	0.105	0.320	2.661	99.584
1.50	0.354	0.032	0.266	1.763	3.50	0.088	0.050	0.416	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand medium	fine	Silt	Clay
Wentworth Classification	0.000	1.206	19.057	79.737	0.000	0.000
Unified Classification	0.000	0.000	1.497	98.501	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.31	0.41	-1.34	9.65
Folk Graphic Measures (PHI)	2.34	2.32	0.37	-0.03	1.15
Grain Size (mm)	0.20	0.20			

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-13-93 TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 12.123 Final Weight : 12.108 Deviation : 0.124 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.482	12.240	17.583
0.00	1.000	0.085	0.702	0.702	2.00	0.250	4.033	33.309	50.892
0.25	0.841	0.029	0.240	0.942	2.25	0.210	1.510	12.471	63.363
0.50	0.707	0.020	0.165	1.107	2.50	0.177	2.163	17.864	81.227
0.75	0.595	0.039	0.322	1.429	2.75	0.149	1.260	10.406	91.634
1.00	0.500	0.072	0.595	2.023	3.00	0.125	0.743	6.136	97.770
1.25	0.420	0.130	1.074	3.097	3.25	0.105	0.234	1.933	99.703
1.50	0.354	0.272	2.246	5.344	3.50	0.088	0.036	0.297	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.023	48.869	49.108	0.000	0.000
Unified Classification	0.000	0.000	3.097	96.903	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.08	0.49	-0.65	5.95
Folk Graphic Measures (PHI)	1.99	2.09	0.43	0.30	0.96
Grain Size (mm)	0.25	0.24			

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sample Date Profile Analysis Date Analyz  
8-13-93 TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 12.072 Final Weight : 12.067 Deviation : 0.041 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	2.197	18.207	29.063
0.00	1.000	0.026	0.215	0.215	2.00	0.250	3.660	30.331	59.393
0.25	0.841	0.019	0.157	0.373	2.25	0.210	1.087	9.008	68.401
0.50	0.707	0.013	0.108	0.481	2.50	0.177	1.673	13.864	82.266
0.75	0.595	0.027	0.224	0.704	2.75	0.149	1.152	9.547	91.812
1.00	0.500	0.068	0.564	1.268	3.00	0.125	0.700	5.801	97.613
1.25	0.420	0.364	3.016	4.284	3.25	0.105	0.245	2.030	99.644
1.50	0.354	0.793	6.572	10.856	3.50	0.088	0.043	0.356	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.268	58.125	40.607	0.000	0.000
Unified Classification	0.000	0.000	4.284	95.716	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.01	0.49	0.04	3.64
Folk Graphic Measures (PHI)	1.92	2.01	0.49	0.24	0.98
Grain Size (mm)	0.26	0.25			

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sand Sample 100 cm Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 12.506 Final Weight : 12.461 Deviation : 0.360 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	2.250	18.056	39.515
0.00	1.000	0.039	0.313	0.313	2.00	0.250	3.115	24.998	64.513
0.25	0.841	0.031	0.249	0.562	2.25	0.210	0.925	7.423	71.936
0.50	0.707	0.026	0.209	0.770	2.50	0.177	1.425	11.436	83.372
0.75	0.595	0.043	0.345	1.115	2.75	0.149	1.010	8.105	91.477
1.00	0.500	0.237	1.902	3.017	3.00	0.125	0.712	5.714	97.191
1.25	0.420	0.950	7.624	10.641	3.25	0.105	0.295	2.367	99.559
1.50	0.354	1.348	10.818	21.459	3.50	0.088	0.055	0.441	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.017	61.496	35.487	0.000	0.000
Unified Classification	0.000	0.000	10.641	89.359	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.91	0.56	0.08	3.17
Folk Graphic Measures (PHI)	1.85	1.92	0.57	0.15	0.98
Grain Size (mm)	0.28	0.27			

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sand Sample 125 cm Date 8-23-92 Profile Analysis Date 8-11-93 Analyz TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.388 Final Weight : 12.380 Deviation : 0.065 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	2.354	19.015	50.751
0.00	1.000	0.045	0.363	0.363	2.00	0.250	2.503	20.218	70.969
0.25	0.841	0.043	0.347	0.711	2.25	0.210	0.999	8.069	79.039
0.50	0.707	0.037	0.299	1.010	2.50	0.177	1.228	9.919	88.958
0.75	0.595	0.094	0.759	1.769	2.75	0.149	0.760	6.139	95.097
1.00	0.500	0.597	4.822	6.591	3.00	0.125	0.427	3.449	98.546
1.25	0.420	1.550	12.520	19.111	3.25	0.105	0.156	1.260	99.806
1.50	0.354	1.563	12.625	31.737	3.50	0.088	0.024	0.194	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	6.591	64.378	29.031	0.000	0.000
Unified Classification	0.000	0.000	19.111	80.889	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.76	0.56	0.11	3.07
Folk Graphic Measures (PHI)	1.74	1.77	0.57	0.08	0.99
Grain Size (mm)	0.30	0.29			

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf	Type Sand	Sample 150 cm	Date 8-23-92	Profile	Analysis Date 8-13-93	Analyst TB/RH			
X Position : 30:12.46 Y Position : 87:27.38									
Elevation of Top of Core : 56'									
Length of Core : 210 cm									
Depth to Top of Sample : 145 cm									
Depth to Bottom of Sample : 155 cm									
Comments : Thuy Bui									
Start Weight : 12.036 Final Weight : 12.001 Deviation : 0.291 %									
PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.896	15.799	53.787
0.00	1.000	0.066	0.550	0.550	2.00	0.250	2.019	16.824	70.611
0.25	0.841	0.071	0.592	1.142	2.25	0.210	0.739	6.158	76.769
0.50	0.707	0.067	0.558	1.700	2.50	0.177	1.089	9.074	85.843
0.75	0.595	0.194	1.617	3.316	2.75	0.149	0.841	7.008	92.851
1.00	0.500	1.007	8.391	11.707	3.00	0.125	0.577	4.808	97.659
1.25	0.420	1.746	14.549	26.256	3.25	0.105	0.235	1.958	99.617
1.50	0.354	1.408	11.732	37.989	3.50	0.088	0.046	0.383	100.000
Sample Content by Weight Percent :									
		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification		0.000		11.707		58.903		29.389	
Unified Classification		0.000		0.000		26.256		73.744	
Standard Statistics :									
		Median		Mean		Dev.		Kurt	
Method of Moments (PHI)				1.73		0.64		0.16	
Polk Graphic Measures (PHI)				1.69		1.74		0.66	
Grain Size (mm)				0.31		0.30		0.12	

Offshore Pensacola, FL (PEN-92-06)

Locality Shelf	Type Sand	Sample 175 cm	Date 8-23-92	Profile	Analysis Date 8-13-93	Analyst TB/RH			
X Position : 30:12.46 Y Position : 87:27.38									
Elevation of Top of Core : 56'									
Length of Core : 210 cm									
Depth to Top of Sample : 170 cm									
Depth to Bottom of Sample : 180 cm									
Comments : Thuy Bui									
Start Weight : 12.101 Final Weight : 12.080 Deviation : 0.174 %									
PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.485	12.293	55.737
0.00	1.000	0.141	1.167	1.167	2.00	0.250	1.884	15.596	71.333
0.25	0.841	0.132	1.093	2.260	2.25	0.210	0.675	5.588	76.921
0.50	0.707	0.173	1.432	3.692	2.50	0.177	1.074	8.891	85.811
0.75	0.595	0.429	3.551	7.243	2.75	0.149	0.851	7.045	92.856
1.00	0.500	1.356	11.225	18.469	3.00	0.125	0.581	4.810	97.666
1.25	0.420	1.788	14.801	33.270	3.25	0.105	0.237	1.962	99.627
1.50	0.354	1.229	10.174	43.444	3.50	0.088	0.045	0.373	100.000
Sample Content by Weight Percent :									
		Gravel		Sand		Silt		Clay	
		coarse		medium		fine			
Wentworth Classification		0.000		18.469		28.667		0.000	
Unified Classification		0.000		0.000		33.270		66.730	
Standard Statistics :									
		Median		Mean		Dev.		Kurt	
				1.65		0.71		0.08	
Method of Moments (PHI)				1.63		0.72		0.08	
Polk Graphic Measures (PHI)				1.63		0.72		0.08	
Grain Size (mm)				0.32		0.32		0.08	



Offshore Pensacola, FL (PEN-92-06)

Locality Shelf Type Sand Sample 200 cm Date 8-23-92 Profile Analysis Date 8-13-93 Analyz TB/RM

X Position : 30:12.46 Y Position : 87:27.38

Elevation of Top of Core : 56'  
Length of Core : 210 cm  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bul

Start Weight : 12.146 Final Weight : 11.999 Deviation : 1.210 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.332	11.101	57.796
0.00	1.000	0.017	0.142	0.142	2.00	0.250	1.727	14.393	72.189
0.25	0.841	0.289	2.409	2.550	2.25	0.210	0.584	4.867	77.056
0.50	0.707	0.448	3.734	6.284	2.50	0.177	1.009	8.409	85.465
0.75	0.595	0.780	6.501	12.784	2.75	0.149	0.827	6.892	92.358
1.00	0.500	1.513	12.609	25.394	3.00	0.125	0.564	4.700	97.058
1.25	0.420	1.482	12.351	37.745	3.25	0.105	0.265	2.209	99.267
1.50	0.354	1.074	8.951	46.696	3.50	0.088	0.088	0.733	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	25.394	46.796	27.811
Unified Classification	0.000	0.000	37.745	62.255

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.59	0.76	0.18	2.27
Folk Graphic Measures (PHI)	1.57	1.61	0.79	0.07	0.88
Grain Size (mm)	0.34	0.33			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 5 cm Date 8-23-92 Profile Analysis Date 8-12-93 Analyz TB/RM

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 12.199 Final Weight : 12.199 Deviation : 0.000 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.582	12.968	25.633
0.00	1.000	0.172	1.410	1.410	2.00	0.250	4.322	35.429	61.062
0.25	0.841	0.039	0.320	1.730	2.25	0.210	1.785	14.632	75.695
0.50	0.707	0.049	0.402	2.131	2.50	0.177	1.847	15.141	90.835
0.75	0.595	0.080	0.656	2.787	2.75	0.149	0.755	6.189	97.024
1.00	0.500	0.237	1.943	4.730	3.00	0.125	0.228	1.869	98.893
1.25	0.420	0.437	3.582	8.312	3.25	0.105	0.101	0.828	99.721
1.50	0.354	0.531	4.353	12.665	3.50	0.088	0.034	0.279	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.730	56.332	38.938
Unified Classification	0.000	0.000	8.312	91.688

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.92	0.51	-1.05	6.27
Folk Graphic Measures (PHI)	1.92	1.96	0.46	0.02	1.35
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 25 cm Date 8-23-92 Profile Analysis Date 8-12-93 Analyz TB/RM

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 12.058 Final Weight : 12.007 Deviation : 0.423 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.394	11.610	26.018
0.00	1.000	0.348	2.898	2.898	2.00	0.250	4.493	37.420	63.438
0.25	0.841	0.065	0.541	3.440	2.25	0.210	1.407	11.718	75.156
0.50	0.707	0.046	0.383	3.823	2.50	0.177	1.903	15.849	91.005
0.75	0.595	0.077	0.641	4.464	2.75	0.149	0.684	5.697	96.702
1.00	0.500	0.241	2.007	6.471	3.00	0.125	0.244	2.032	98.734
1.25	0.420	0.439	3.656	10.127	3.25	0.105	0.107	0.891	99.625
1.50	0.354	0.514	4.281	14.408	3.50	0.088	0.045	0.375	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	6.471	56.967	36.562	0.000	0.000
Unified Classification	0.000	0.000	10.127	89.873	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.88	0.58	-1.27	6.22
Folk Graphic Measures (PHI)	1.91	1.94	0.50	-0.03	1.47
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 50 cm Date 8-23-92 Profile Analysis Date 8-12-93 Analyz TB/RM

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 12.006 Final Weight : 11.910 Deviation : 0.800 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.325	11.125	24.828
0.00	1.000	0.113	0.949	0.949	2.00	0.250	4.415	37.070	61.898
0.25	0.841	0.038	0.319	1.268	2.25	0.210	1.433	12.032	73.929
0.50	0.707	0.031	0.428	1.696	2.50	0.177	1.959	16.448	90.378
0.75	0.595	0.084	0.705	2.401	2.75	0.149	0.730	6.129	96.507
1.00	0.500	0.276	2.317	4.719	3.00	0.125	0.264	2.217	98.724
1.25	0.420	0.496	4.165	8.883	3.25	0.105	0.105	0.882	99.605
1.50	0.354	0.574	4.819	13.703	3.50	0.088	0.047	0.395	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	4.719	57.179	38.102	0.000	0.000
Unified Classification	0.000	0.000	8.883	91.117	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.93	0.51	-0.82	5.54
Folk Graphic Measures (PHI)	1.92	1.96	0.47	0.03	1.33
Grain Size (mm)	0.26	0.26			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 75 cm Date 8-23-92 Profile Analysis Date 8-12-93 Analyz TB/RH

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 12.208 Final Weight : 12.179 Deviation : 0.238 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.407	11.553	26.743
0.00	1.000	0.169	1.388	1.388	2.00	0.250	4.496	36.916	63.659
0.25	0.841	0.033	0.271	1.659	2.25	0.210	1.450	11.906	75.564
0.50	0.707	0.031	0.255	1.913	2.50	0.177	1.835	15.067	90.631
0.75	0.595	0.095	0.780	2.693	2.75	0.149	0.780	6.404	97.036
1.00	0.500	0.333	2.734	5.427	3.00	0.125	0.234	1.921	98.957
1.25	0.420	0.563	4.623	10.050	3.25	0.105	0.091	0.747	99.704
1.50	0.354	0.626	5.140	15.190	3.50	0.088	0.036	0.296	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.427	58.231	36.341	0.000	0.000
Unified Classification	0.000	0.000	10.050	89.950	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.90	0.52	-0.93	5.61
Folk Graphic Measures (PHI)	1.91	1.94	0.48	-0.00	1.33
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 100 cm Date 8-23-92 Profile Analysis Date 8-12-93 Analyz TB/RH

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 12.343 Final Weight : 12.321 Deviation : 0.178 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.359	11.030	26.710
0.00	1.000	0.098	0.795	0.795	2.00	0.250	4.530	36.766	63.477
0.25	0.841	0.043	0.349	1.144	2.25	0.210	1.462	11.866	75.343
0.50	0.707	0.059	0.479	1.623	2.50	0.177	2.053	16.663	92.006
0.75	0.595	0.134	1.088	2.711	2.75	0.149	0.644	5.227	97.232
1.00	0.500	0.387	3.141	5.852	3.00	0.125	0.219	1.777	99.010
1.25	0.420	0.572	4.642	10.494	3.25	0.105	0.083	0.674	99.683
1.50	0.354	0.639	5.186	15.681	3.50	0.088	0.039	0.317	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	5.852	57.625	36.523	0.000	0.000
Unified Classification	0.000	0.000	10.494	89.506	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.90	0.51	-0.81	5.08
Folk Graphic Measures (PHI)	1.91	1.93	0.48	-0.03	1.32
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 125 cm Date 8-23-92 Profile Analysis Date 8-12-91 Analyz TD/RM

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 120cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 12.616 Final Weight : 12.616 Deviation : 0.000 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.535	12.167	27.640
0.00	1.000	0.001	0.008	0.008	2.00	0.250	4.523	35.851	63.491
0.25	0.841	0.023	0.182	0.190	2.25	0.210	1.585	12.563	76.054
0.50	0.707	0.051	0.404	0.594	2.50	0.177	1.928	15.282	91.336
0.75	0.595	0.144	1.141	1.736	2.75	0.149	0.734	5.818	97.154
1.00	0.500	0.437	3.464	5.200	3.00	0.125	0.233	1.847	99.001
1.25	0.420	0.626	4.962	10.162	3.25	0.105	0.086	0.682	99.683
1.50	0.354	0.670	5.311	15.472	3.50	0.088	0.040	0.317	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.200	58.291	36.509
Unified Classification	0.000	0.000	10.162	89.838

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.91	0.48	-0.39	3.85
Folk Graphic Measures (PHI)	1.91	1.93	0.47	-0.01	1.28
Grain Size (mm)	0.27	0.27			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 150 cm Date 8-23-92 Profile Analysis Date 8-12-91 Analyz TR/RM

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 145cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 12.107 Final Weight : 12.048 Deviation : 0.487 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.496	12.417	35.101
0.00	1.000	0.127	1.054	1.054	2.00	0.250	3.923	32.561	67.663
0.25	0.841	0.055	0.457	1.511	2.25	0.210	1.302	10.807	78.469
0.50	0.707	0.088	0.730	2.241	2.50	0.177	1.678	13.928	92.397
0.75	0.595	0.201	1.668	3.909	2.75	0.149	0.597	4.955	97.352
1.00	0.500	0.624	5.179	9.089	3.00	0.125	0.198	1.643	98.996
1.25	0.420	0.866	7.188	16.277	3.25	0.105	0.078	0.647	99.643
1.50	0.354	0.772	6.408	22.684	3.50	0.088	0.043	0.357	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	9.089	58.574	32.337
Unified Classification	0.000	0.000	16.277	83.723

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.81	0.56	-0.65	4.10
Folk Graphic Measures (PHI)	1.86	1.82	0.55	-0.14	1.20
Grain Size (mm)	0.27	0.29			

Offshore Pensacola, FL (PEN-92-07)

Locality Shelf Type Sand Sample 175 cm Date 8-23-92 Profile Analysis Date 8-12-93 Analyz TB/RM

X Position : 30:16.18 Y Position : 87:31.91

Elevation of Top of Core : 20'  
Length of Core : 190 cm  
Depth to Top of Sample : 170cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bul

Start Weight : 12.259 Final Weight : 12.258 Deviation : 0.008 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.377	11.233	55.539
0.00	1.000	0.105	0.857	0.857	2.00	0.250	2.541	20.729	76.269
0.25	0.841	0.264	2.154	3.010	2.25	0.210	1.028	8.386	84.655
0.50	0.707	0.365	2.978	5.988	2.50	0.177	1.117	9.112	93.767
0.75	0.595	0.683	5.572	11.560	2.75	0.149	0.463	3.777	97.544
1.00	0.500	1.488	12.139	23.699	3.00	0.125	0.178	1.452	98.997
1.25	0.420	1.456	11.878	35.577	3.25	0.105	0.081	0.661	99.657
1.50	0.354	1.070	8.729	44.306	3.50	0.088	0.042	0.343	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	23.699	52.570	23.731	0.000	0.000
Unified Classification	0.000	0.000	35.577	64.423	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.55	0.67	-0.12	2.57
Folk Graphic Measures (PHI)	1.63	1.57	0.68	-0.12	0.93
Grain Size (mm)	0.32	0.34			

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 5 cm Date 7-29-93 Profile Analysis Date 4-22-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 11.009 Final Weight : 10.994 Deviation : 0.136 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.75	0.149	1.922	17.482	66.582
0.50	0.707	0.030	0.273	0.273	3.00	0.125	1.733	15.763	82.345
0.75	0.595	0.067	0.609	0.882	3.25	0.105	1.227	11.161	93.506
1.00	0.500	0.162	1.474	2.356	3.50	0.088	0.377	3.429	96.935
1.25	0.420	0.217	1.974	4.330	3.75	0.074	0.222	2.019	98.954
1.50	0.354	0.248	2.256	6.585	4.00	0.063	0.093	0.846	99.800
1.75	0.297	0.417	3.793	10.378	4.25	0.053	0.010	0.091	99.891
2.00	0.250	1.216	11.061	21.439	4.50	0.044	0.006	0.055	99.945
2.25	0.210	0.976	8.878	30.317	4.75	0.037	0.006	0.055	100.000
2.50	0.177	2.065	18.783	49.100					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	2.356	19.083	78.361	0.200	0.000
Unified Classification	0.000	0.000	4.330	94.624	1.046	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.47	0.61	-0.49	3.62
Folk Graphic Measures (PHI)	2.51	2.48	0.60	-0.13	1.06
Grain Size (mm)	0.18	0.18			

fine sand, med. sand, silt, clay  
no. of grains - 1000, 1000, 1000, 1000

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 25 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RH  
X Position : 30:01.04 Y Position : 87:31.51  
Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 11.193 Final Weight : 11.125 Deviation : 0.608 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.253	20.252	61.807
0.00	1.000	0.014	0.126	0.126	2.75	0.149	1.724	15.497	77.303
0.25	0.841	0.028	0.252	0.378	3.00	0.125	1.325	11.910	89.213
0.50	0.707	0.039	0.351	0.728	3.25	0.105	0.755	6.787	96.000
0.75	0.595	0.065	0.584	1.312	3.50	0.088	0.219	1.969	97.969
1.00	0.500	0.205	1.843	3.155	3.75	0.074	0.122	1.097	99.065
1.25	0.420	0.366	3.290	6.445	4.00	0.063	0.053	0.476	99.542
1.50	0.354	0.416	3.739	10.184	4.25	0.053	0.019	0.171	99.712
1.75	0.297	0.682	6.130	16.315	4.50	0.044	0.019	0.171	99.883
2.00	0.250	1.825	16.404	32.719	4.75	0.037	0.013	0.117	100.000
2.25	0.210	0.983	8.836	41.555					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.155	29.564	66.822	0.458	0.000
Unified Classification	0.000	0.000	6.445	92.620	0.935	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.29	0.63	-0.31	3.72
Folk Graphic Measures (PHI)	2.35	2.33	0.60	-0.12	1.02
Grain Size (mm)	0.20	0.20			

fine sand, med. well sorted,  
strongly asym - skewed, spt. 0.5 ft

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 50 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RH  
X Position : 30:01.04 Y Position : 87:31.51  
Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 11.381 Final Weight : 11.340 Deviation : 0.360 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.364	20.847	68.765
0.00	1.000	0.007	0.062	0.062	2.75	0.149	1.547	13.642	82.407
0.25	0.841	0.023	0.203	0.265	3.00	0.125	1.126	9.929	92.337
0.50	0.707	0.037	0.326	0.591	3.25	0.105	0.597	5.265	97.601
0.75	0.595	0.073	0.644	1.235	3.50	0.088	0.145	1.279	98.880
1.00	0.500	0.262	2.310	3.545	3.75	0.074	0.073	0.644	99.524
1.25	0.420	0.493	4.347	7.892	4.00	0.063	0.027	0.238	99.762
1.50	0.354	0.557	4.912	12.804	4.25	0.053	0.010	0.088	99.850
1.75	0.297	0.806	7.108	19.912	4.50	0.044	0.010	0.088	99.938
2.00	0.250	2.210	19.489	39.400	4.75	0.037	0.007	0.062	100.000
2.25	0.210	0.966	8.519	47.919					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.545	35.855	60.362	0.238	0.000
Unified Classification	0.000	0.000	7.892	91.631	0.476	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.19	0.61	-0.26	3.36
Folk Graphic Measures (PHI)	2.27	2.23	0.60	-0.15	1.05
Grain Size (mm)	0.21	0.22			

fine sand, med. well sorted,  
coarse - skewed, spt. 0.5 ft

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 75 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bul

Start Weight : 11.217 Final Weight : 11.180 Deviation : 0.330 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.100	18.784	71.762
0.00	1.000	0.010	0.089	0.089	2.75	0.149	1.425	12.746	84.508
0.25	0.841	0.038	0.340	0.429	3.00	0.125	0.988	8.837	93.345
0.50	0.707	0.041	0.367	0.796	3.25	0.105	0.523	4.678	98.023
0.75	0.595	0.091	0.814	1.610	3.50	0.088	0.121	1.082	99.106
1.00	0.500	0.340	3.041	4.651	3.75	0.074	0.055	0.492	99.597
1.25	0.420	0.611	5.465	10.116	4.00	0.063	0.023	0.206	99.803
1.50	0.354	0.653	5.841	15.957	4.25	0.053	0.008	0.072	99.875
1.75	0.297	0.941	8.417	24.374	4.50	0.044	0.009	0.081	99.955
2.00	0.250	2.244	20.072	44.445	4.75	0.037	0.005	0.045	100.000
2.25	0.210	0.954	8.533	52.979					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	4.651	39.794	55.358
Unified Classification	0.000	0.000	10.116	89.481

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.12	0.63	-0.23	3.18
Folk Graphic Measures (PHI)	2.16	2.13	0.62	-0.09	1.05
Grain Size (mm)	0.22	0.23			

fine sand, med. well sorted,  
coarse - abundant, some pebbles.

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 100 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bul

Start Weight : 11.578 Final Weight : 11.558 Deviation : 0.173 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.262	19.571	76.458
0.00	1.000	0.007	0.061	0.061	2.75	0.149	1.314	11.369	87.827
0.25	0.841	0.021	0.182	0.242	3.00	0.125	0.838	7.250	95.077
0.50	0.707	0.046	0.398	0.640	3.25	0.105	0.408	3.530	98.607
0.75	0.595	0.119	1.030	1.670	3.50	0.088	0.082	0.709	99.316
1.00	0.500	0.438	3.790	5.459	3.75	0.074	0.046	0.398	99.714
1.25	0.420	0.746	6.454	11.914	4.00	0.063	0.019	0.164	99.879
1.50	0.354	0.754	6.524	18.437	4.25	0.053	0.005	0.043	99.922
1.75	0.297	1.071	9.266	27.704	4.50	0.044	0.006	0.052	99.974
2.00	0.250	2.494	21.578	49.282	4.75	0.037	0.003	0.026	100.000
2.25	0.210	0.879	7.605	56.887					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.459	43.822	50.597
Unified Classification	0.000	0.000	11.914	87.801

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.05	0.62	-0.17	2.99
Folk Graphic Measures (PHI)	2.02	2.03	0.62	-0.01	1.03
Grain Size (mm)	0.25	0.24			

fine sand, med. well sorted,  
coarse - abundant, some pebbles.

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 125 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 11.455 Final Weight : 11.419 Deviation : 0.314 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.095	18.347	73.570
0.00	1.000	0.010	0.088	0.088	2.75	0.149	1.348	11.805	85.375
0.25	0.841	0.037	0.324	0.412	3.00	0.125	0.948	8.302	93.677
0.50	0.707	0.058	0.508	0.920	3.25	0.105	0.515	4.510	98.187
0.75	0.595	0.111	0.972	1.892	3.50	0.088	0.121	1.060	99.247
1.00	0.500	0.402	3.520	5.412	3.75	0.074	0.054	0.473	99.720
1.25	0.420	0.675	5.911	11.323	4.00	0.063	0.021	0.184	99.904
1.50	0.354	0.704	6.165	17.488	4.25	0.053	0.006	0.053	99.956
1.75	0.297	1.030	9.020	26.508	4.50	0.044	0.005	0.044	100.000
2.00	0.250	2.325	20.361	46.869	4.75	0.037	0.000	0.000	100.000
2.25	0.210	0.954	8.354	55.224					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.412	41.457	53.034
Unified Classification	0.000	0.000	11.323	88.397

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.09	0.64	-0.24	2.98
Folk Graphic Measures (PHI)	2.09	2.08	0.64	-0.04	1.05
Grain Size (mm)	0.25	0.24			

fine sand, med. well sorted,  
coarse - medium, very fine

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 150 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 11.201 Final Weight : 11.180 Deviation : 0.187 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.162	19.338	76.225
0.00	1.000	0.000	0.000	0.000	2.75	0.149	1.145	10.242	86.467
0.25	0.841	0.030	0.268	0.268	3.00	0.125	0.879	7.862	94.329
0.50	0.707	0.059	0.528	0.796	3.25	0.105	0.460	4.114	98.444
0.75	0.595	0.115	1.029	1.825	3.50	0.088	0.090	0.805	99.249
1.00	0.500	0.422	3.775	5.599	3.75	0.074	0.055	0.492	99.741
1.25	0.420	0.701	6.270	11.869	4.00	0.063	0.020	0.179	99.919
1.50	0.354	0.699	6.252	18.122	4.25	0.053	0.006	0.054	99.973
1.75	0.297	1.082	9.678	27.800	4.50	0.044	0.003	0.027	100.000
2.00	0.250	2.382	21.306	49.106	4.75	0.037	0.000	0.000	100.000
2.25	0.210	0.870	7.782	56.887					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	5.599	43.506	50.814
Unified Classification	0.000	0.000	11.869	87.871

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.06	0.63	-0.18	2.90
Folk Graphic Measures (PHI)	2.03	2.04	0.63	0.01	1.06
Grain Size (mm)	0.25	0.24			

fine sand, med. well sorted,  
coarse - medium, very fine



Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 175 cm Date 7-29-93 Profile Analysis Date 4-6-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.491 Final Weight : 11.460 Deviation : 0.270 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.702	14.852	75.061
0.00	1.000	0.005	0.044	0.044	2.75	0.149	1.256	10.960	86.021
0.25	0.841	0.045	0.393	0.436	3.00	0.125	0.913	7.967	93.988
0.50	0.707	0.084	0.733	1.169	3.25	0.105	0.493	4.302	98.290
0.75	0.595	0.203	1.771	2.941	3.50	0.088	0.114	0.995	99.284
1.00	0.500	0.671	5.855	8.796	3.75	0.074	0.048	0.419	99.703
1.25	0.420	0.957	8.151	17.147	4.00	0.063	0.020	0.175	99.878
1.50	0.354	0.843	7.356	24.503	4.25	0.053	0.007	0.061	99.939
1.75	0.297	1.124	9.808	34.311	4.50	0.044	0.006	0.052	99.991
2.00	0.250	2.099	18.316	52.627	4.75	0.037	0.001	0.009	100.000
2.25	0.210	0.869	7.583	60.209					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	8.796	43.831	47.251	0.122	0.000
Unified Classification	0.000	0.000	17.147	82.557	0.297	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.69	-0.11	2.58
Folk Graphic Measures (PHI)	1.96	1.96	0.71	-0.01	0.92
Grain Size (mm)	0.26	0.25			

med. sand, med. well sorted,  
coarse-sorted, very fine

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 200 cm Date 7-29-93 Profile Analysis Date 4-4-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.161 Final Weight : 11.127 Deviation : 0.305 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.451	13.040	74.971
0.00	1.000	0.021	0.189	0.189	2.75	0.149	1.127	10.129	85.099
0.25	0.841	0.082	0.737	0.926	3.00	0.125	0.878	7.891	92.990
0.50	0.707	0.106	0.953	1.878	3.25	0.105	0.527	4.736	97.726
0.75	0.595	0.243	2.184	4.062	3.50	0.088	0.132	1.186	98.913
1.00	0.500	0.738	6.633	10.695	3.75	0.074	0.057	0.512	99.425
1.25	0.420	0.977	8.780	19.475	4.00	0.063	0.028	0.252	99.676
1.50	0.354	0.839	7.540	27.015	4.25	0.053	0.010	0.090	99.766
1.75	0.297	1.048	9.419	36.434	4.50	0.044	0.012	0.108	99.874
2.00	0.250	1.947	17.498	53.932	4.75	0.037	0.014	0.126	100.000
2.25	0.210	0.890	7.999	61.930					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	10.695	43.237	45.745	0.324	0.000
Unified Classification	0.000	0.000	19.475	79.950	0.575	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.96	0.73	-0.03	2.75
Folk Graphic Measures (PHI)	1.94	1.94	0.74	-0.00	0.89
Grain Size (mm)	0.26	0.26			

med. sand, med. sorted,  
coarse-sorted, very fine

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 225 cm Date 7-29-93 Profile Analysis Date 4-4-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 11.631 Final Weight : 11.588 Deviation : 0.370 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.774	15.309	66.647
0.00	1.000	0.012	0.104	0.104	2.75	0.149	1.542	13.307	79.953
0.25	0.841	0.052	0.449	0.552	3.00	0.125	1.180	10.183	90.136
0.50	0.707	0.088	0.759	1.312	3.25	0.105	0.777	6.705	96.842
0.75	0.595	0.148	1.277	2.589	3.50	0.088	0.209	1.804	98.645
1.00	0.500	0.481	4.151	6.740	3.75	0.074	0.089	0.768	99.413
1.25	0.420	0.697	6.015	12.755	4.00	0.063	0.036	0.311	99.724
1.50	0.354	0.679	5.860	18.614	4.25	0.053	0.012	0.104	99.827
1.75	0.297	0.914	7.887	26.502	4.50	0.044	0.012	0.104	99.931
2.00	0.250	1.926	16.621	43.122	4.75	0.037	0.008	0.069	100.000
2.25	0.210	0.952	8.215	51.338					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	6.740	36.382	56.602
Unified Classification	0.000	0.000	12.755	86.659

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.71	-0.26	2.87
Folk Graphic Measures (PHI)	2.21	2.15	0.71	-0.14	0.98
Grain Size (mm)	0.22	0.23			

fine sand, med. well sorted,  
coarse - skewed, very high

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 250 cm Date 7-29-93 Profile Analysis Date 4-4-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.144 Final Weight : 11.114 Deviation : 0.269 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.715	15.431	68.796
0.00	1.000	0.017	0.153	0.153	2.75	0.149	1.408	12.669	81.465
0.25	0.841	0.052	0.468	0.621	3.00	0.125	1.117	10.050	91.515
0.50	0.707	0.079	0.711	1.332	3.25	0.105	0.659	5.929	97.445
0.75	0.595	0.152	1.368	2.699	3.50	0.088	0.155	1.395	98.839
1.00	0.500	0.486	4.373	7.072	3.75	0.074	0.075	0.675	99.514
1.25	0.420	0.680	6.118	13.191	4.00	0.063	0.030	0.270	99.784
1.50	0.354	0.634	5.705	18.895	4.25	0.053	0.010	0.090	99.874
1.75	0.297	0.921	8.287	27.182	4.50	0.044	0.007	0.063	99.937
2.00	0.250	1.970	17.725	44.907	4.75	0.037	0.007	0.063	100.000
2.25	0.210	0.940	8.458	53.365					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	7.072	37.835	54.877
Unified Classification	0.000	0.000	13.191	86.324

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.11	0.70	-0.27	2.90
Folk Graphic Measures (PHI)	2.15	2.11	0.70	-0.10	0.99
Grain Size (mm)	0.23	0.23			

fine sand, med. well sorted,  
coarse - skewed, very high

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 275 cm Date 7-29-93 Profile Analysis Date 4-4-94 Analyz TB/RM  
X Position : 30:01.04 Y Position : 87:31.51  
Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 11.124 Final Weight : 11.077 Deviation : 0.423 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.602	14.462	68.565
0.00	1.000	0.004	0.036	0.036	2.75	0.149	1.320	11.917	80.482
0.25	0.841	0.034	0.307	0.343	3.00	0.125	1.132	10.219	90.701
0.50	0.707	0.056	0.506	0.849	3.25	0.105	0.721	6.509	97.210
0.75	0.595	0.158	1.426	2.275	3.50	0.088	0.180	1.625	98.835
1.00	0.500	0.576	5.200	7.475	3.75	0.074	0.076	0.686	99.522
1.25	0.420	0.798	7.204	14.679	4.00	0.063	0.031	0.280	99.801
1.50	0.354	0.713	6.437	21.116	4.25	0.053	0.009	0.081	99.883
1.75	0.297	0.912	8.233	29.349	4.50	0.044	0.008	0.072	99.955
2.00	0.250	1.834	16.557	45.906	4.75	0.037	0.005	0.045	100.000
2.25	0.210	0.908	8.197	54.103					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	7.475	38.431	51.895
Unified Classification	0.000	0.000	14.679	84.842

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.10	0.71	-0.17	2.58
Folk Graphic Measures (PHI)	2.12	2.09	0.73	-0.08	0.92
Grain Size (mm)	0.23	0.23			

fine sand, med. silt, coarse - silty, very light.

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 300 cm Date 7-29-93 Profile Analysis Date 4-4-94 Analyz TB/RM  
X Position : 30:01.04 Y Position : 87:31.51  
Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 11.415 Final Weight : 11.365 Deviation : 0.438 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.488	11.093	74.149
0.00	1.000	0.050	0.440	0.440	2.75	0.149	1.158	10.189	84.338
0.25	0.841	0.107	0.941	1.381	3.00	0.125	0.954	8.394	92.732
0.50	0.707	0.141	1.241	2.622	3.25	0.105	0.579	5.095	97.827
0.75	0.595	0.263	2.314	4.936	3.50	0.088	0.142	1.249	99.076
1.00	0.500	0.725	6.379	11.315	3.75	0.074	0.059	0.519	99.595
1.25	0.420	0.901	7.928	19.243	4.00	0.063	0.024	0.211	99.806
1.50	0.354	0.822	7.233	26.476	4.25	0.053	0.007	0.062	99.868
1.75	0.297	1.039	9.142	35.618	4.50	0.044	0.008	0.070	99.938
2.00	0.250	1.969	17.325	52.943	4.75	0.037	0.007	0.062	100.000
2.25	0.210	0.922	8.113	61.056					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	11.315	41.628	46.863
Unified Classification	0.000	0.000	19.243	80.352

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.97	0.75	-0.17	2.71
Folk Graphic Measures (PHI)	1.96	1.95	0.76	-0.02	0.90
Grain Size (mm)	0.26	0.26			

med. sand, med. silt, coarse - silty, very light.

## Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 325 cm Date 7-29-93 Profile Analysis Date 4-4-94 TB/RH  
 X Position : 30101.04 Y Position : 87131.51  
 Elevation of Top of Core : 95'  
 Length of Core : 5.48 m  
 Depth to Top of Sample : 320 cm  
 Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 11.010		Final Weight : 10.959		Deviation : 0.463 %	
PHI	MM	Weight	Percent	Cumulative	Percent
-0.25	1.189	0.000	0.000	0.000	75.992
0.00	1.000	0.028	0.255	0.028	10.110
0.25	0.841	0.085	0.776	1.031	7.683
0.50	0.707	0.139	1.268	2.299	4.380
0.75	0.595	0.286	2.610	4.909	1.058
1.00	0.500	0.825	7.528	12.437	0.046
1.25	0.420	0.979	8.933	21.371	0.021
1.50	0.354	0.822	7.501	28.871	0.007
1.75	0.297	1.001	9.134	38.005	0.004
2.00	0.250	1.880	17.155	55.160	0.036
2.25	0.210	0.883	8.057	63.217	100.000

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
0.000	12.437	44.676	0.164
0.000	21.371	78.274	0.356

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
1.92	1.91	0.75	-0.10	2.57
0.26	0.26		-0.02	0.86

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

not sand, silt, and clay, but  
 near experimental, 100% silt

## Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 350 cm Date 7-29-93 Profile Analysis Date 4-3-94 TB/RH  
 X Position : 30101.04 Y Position : 87131.51  
 Elevation of Top of Core : 95'  
 Length of Core : 5.48 m  
 Depth to Top of Sample : 345 cm  
 Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 11.405		Final Weight : 11.393		Deviation : 0.105 %	
PHI	MM	Weight	Percent	Cumulative	Percent
-0.25	1.189	0.000	0.000	0.000	77.574
0.00	1.000	0.015	0.132	0.132	10.024
0.25	0.841	0.088	0.772	0.904	6.583
0.50	0.707	0.142	1.246	2.150	4.160
0.75	0.595	0.316	2.774	4.924	0.939
1.00	0.500	0.869	7.627	12.552	0.465
1.25	0.420	1.064	9.339	21.891	0.021
1.50	0.354	0.813	7.136	29.027	0.004
1.75	0.297	1.148	10.076	39.103	0.003
2.00	0.250	2.035	17.862	56.965	0.000
2.25	0.210	0.804	7.057	64.022	100.000

Sample Content by Weight Percent :

Gravel	Sand	Silt	Clay
coarse	medium	fine	
0.000	12.552	44.413	42.974
0.000	21.891	77.864	0.246

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
1.90	1.90	0.72	-0.09	2.49
0.27	0.27	0.74	-0.02	0.86

Method of Moments (PHI)  
 Folk Graphic Measures (PHI)  
 Grain Size (mm)

not sand, silt, and clay, but  
 near experimental, 100% silt

## Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 375 cm Date 7-29-93 Profile Analysis Date 4-5-94 TB/RM  
 X Position : 30101.04 Y Position : 87131.51  
 Elevation of Top of Core : 95'  
 Length of Core : 5.48 m  
 Depth to Top of Sample : 370 cm  
 Depth to Bottom of Sample : 380 cm

Comments : Thuy Bul

Start Weight : 11.984		Final Weight : 11.952		Deviation : 0.267 %	
PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.022	0.184	0.022	0.184
0.25	0.841	0.083	0.694	0.879	7.488
0.50	0.707	0.131	1.096	1.975	16.662
0.75	0.595	0.253	2.117	4.091	34.574
1.00	0.500	0.576	4.856	9.747	82.812
1.25	0.420	0.898	7.430	17.177	145.506
1.50	0.354	0.768	6.426	23.603	199.791
1.75	0.297	1.009	8.442	32.045	269.883
2.00	0.250	2.228	18.641	50.686	429.967
2.25	0.210	0.831	6.953	57.639	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	9.747	40.939	49.105	0.209	0.000	0.000	0.000
0.000	0.000	17.177	82.329	0.494	0.000	0.000	0.000
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)		2.01	0.72	-0.19	2.79		
Folk Graphic Measures (PHI)		1.99	0.73	-0.03	0.97		
Grain Size (mm)		0.25	0.25				

fine sand, mixed silt/clay,  
 common - increased silt/clay content.

## Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 400 cm Date 7-29-93 Profile Analysis Date 4-5-94 TB/RM  
 X Position : 30101.04 Y Position : 87131.51  
 Elevation of Top of Core : 95'  
 Length of Core : 5.48 m  
 Depth to Top of Sample : 395 cm  
 Depth to Bottom of Sample : 405 cm

Comments : Thuy Bul

Start Weight : 11.504		Final Weight : 11.460		Deviation : 0.382 %	
PHI	MM	Weight	Percent	Cumul	Percent
-0.25	1.189	0.000	0.000	0.000	0.000
0.00	1.000	0.031	0.271	0.271	2.351
0.25	0.841	0.166	1.449	1.719	14.700
0.50	0.707	0.221	1.928	3.647	30.928
0.75	0.595	0.425	3.709	7.356	61.857
1.00	0.500	1.041	9.084	16.440	138.180
1.25	0.420	1.147	10.009	26.449	222.625
1.50	0.354	0.882	7.696	34.145	286.817
1.75	0.297	1.014	8.848	42.993	360.887
2.00	0.250	1.870	16.318	59.311	499.965
2.25	0.210	0.759	6.623	65.934	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse	medium	fine					
0.000	16.440	42.871	40.506	0.183	0.000	0.000	0.000
0.000	0.000	26.449	73.176	0.375	0.000	0.000	0.000
Standard Statistics :							
Median		Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)		1.86	0.77	-0.03	2.46		
Folk Graphic Measures (PHI)		1.83	0.79	-0.04	0.83		
Grain Size (mm)		0.28	0.28				

fine sand, mixed silt/clay,  
 common - increased silt/clay content.

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 425 cm Date 7-29-93 Profile Analysis Date 4-5-94 Analyz TB/RH

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 420 cm  
Depth to Bottom of Sample : 430 cm

Comments : Thuy Bui

Start Weight : 11.077 Final Weight : 11.048 Deviation : 0.262 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	1.572	14.229	78.014
0.00	1.000	0.026	0.235	0.235	2.75	0.149	1.069	9.676	87.690
0.25	0.841	0.138	1.249	1.484	3.00	0.125	0.743	6.725	94.415
0.50	0.707	0.188	1.702	3.186	3.25	0.105	0.423	3.829	98.244
0.75	0.595	0.285	2.580	5.766	3.50	0.088	0.106	0.959	99.203
1.00	0.500	0.848	7.676	13.441	3.75	0.074	0.051	0.462	99.665
1.25	0.420	0.996	9.015	22.457	4.00	0.063	0.022	0.199	99.864
1.50	0.354	0.793	7.178	29.634	4.25	0.053	0.008	0.072	99.937
1.75	0.297	0.995	9.006	38.640	4.50	0.044	0.005	0.045	99.982
2.00	0.250	2.043	18.492	57.133	4.75	0.037	0.002	0.018	100.000
2.25	0.210	0.735	6.653	63.785					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	13.441	43.691	42.732	0.136	0.000
Unified Classification	0.000	0.000	22.457	77.209	0.335	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.89	0.74	-0.13	2.61
Folk Graphic Measures (PHI)	1.90	1.88	0.75	-0.05	0.87
Grain Size (mm)	0.27	0.27			

mean, standard deviation, skewness, kurtosis, grain size, etc.

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 450 cm Date 7-29-93 Profile Analysis Date 4-5-94 Analyz TB/RH

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 445 cm  
Depth to Bottom of Sample : 455 cm

Comments : Thuy Bui

Start Weight : 11.532 Final Weight : 11.480 Deviation : 0.451 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	2.50	0.177	2.205	19.207	61.394
0.00	1.000	0.004	0.035	0.035	2.75	0.149	1.682	14.652	76.045
0.25	0.841	0.021	0.183	0.218	3.00	0.125	1.467	12.779	88.824
0.50	0.707	0.038	0.331	0.549	3.25	0.105	0.834	7.265	96.089
0.75	0.595	0.071	0.618	1.167	3.50	0.088	0.229	1.995	98.084
1.00	0.500	0.250	2.178	3.345	3.75	0.074	0.127	1.106	99.190
1.25	0.420	0.447	3.894	7.239	4.00	0.063	0.050	0.436	99.625
1.50	0.354	0.491	4.277	11.516	4.25	0.053	0.017	0.148	99.774
1.75	0.297	0.725	6.315	17.831	4.50	0.044	0.016	0.139	99.913
2.00	0.250	1.837	16.002	33.833	4.75	0.037	0.010	0.087	100.000
2.25	0.210	0.959	8.354	42.186					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.345	30.488	65.793	0.375	0.000
Unified Classification	0.000	0.000	7.239	91.951	0.810	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.28	0.64	-0.29	3.30
Folk Graphic Measures (PHI)	2.35	2.31	0.63	-0.14	0.99
Grain Size (mm)	0.20	0.21			

mean, standard deviation, skewness, kurtosis, grain size, etc.

Locality Shelf Type Sand Sample 475 cm Date 7-29-93 Profile Analysis Date 4-5-94 TDU/RM  
X Position : 30:01.04 Y Position : 87:31.51  
Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 470 cm  
Depth to Bottom of Sample : 480 cm  
Comments : Thuy Bul

Start Weight : 11.403		Final Weight : 11.363		Deviation : 0.051 %	
PHI	MM	Weight	Cumul	Weight	Cumul
		Percent	Percent		
-0.25	1.189	0.000	0.000	2.50	0.177
0.00	1.000	0.003	0.026	2.75	0.149
0.25	0.841	0.030	0.264	3.00	0.125
0.50	0.707	0.043	0.469	3.25	0.103
0.75	0.595	0.093	0.578	3.50	0.084
1.00	0.500	0.291	2.561	4.00	0.043
1.25	0.420	0.485	4.268	4.25	0.053
1.50	0.354	0.479	4.215	4.50	0.044
1.75	0.257	0.667	5.870	4.75	0.037
2.00	0.250	1.749	15.392	5.00	0.016
2.25	0.210	0.893	7.859	5.25	0.012

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	fine	coarse	fine	coarse	fine	coarse	fine
Wentworth Classification	0.000	4.066	29.746	65.784	0.405	0.000	0.000	0.000	0.000
Unified Classification	0.000	0.000	8.334	90.795	0.871	0.000	0.000	0.000	0.000

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.36	0.66	2.28	0.66	-0.35	1.29	-0.17	1.01		
Folk Graphic Measures (PHI)		0.19	0.21	2.31	0.64	-0.17	1.01				
Grain Size (mm)											

fine sand, med. well sorted,  
slightly coarse-textured, silt. 90 phi

Locality Shelf Type Sand Sample 500 cm Date 7-29-93 Profile Analysis Date 4-5-94 TDU/RM  
X Position : 30:01.04 Y Position : 87:31.51  
Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 495 cm  
Depth to Bottom of Sample : 505 cm  
Comments : Thuy Bul

Start Weight : 11.581		Final Weight : 11.537		Deviation : 0.380 %	
PHI	MM	Weight	Cumul	Weight	Cumul
		Percent	Percent		
-0.25	1.189	0.000	0.000	2.50	0.177
0.00	1.000	0.005	0.043	2.75	0.149
0.25	0.841	0.021	0.182	3.00	0.125
0.50	0.707	0.077	0.221	3.25	0.103
0.75	0.595	0.172	1.351	3.50	0.084
1.00	0.500	0.372	1.997	3.75	0.074
1.25	0.420	0.362	3.172	4.00	0.063
1.50	0.354	0.285	3.320	4.25	0.053
1.75	0.257	0.600	5.201	4.50	0.044
2.00	0.250	1.636	14.354	4.75	0.037
2.25	0.210	0.948	8.217	5.00	0.016

Sample Content by Weight Percent :

		Gravel		Sand		Silt		Clay	
		coarse	fine	coarse	fine	coarse	fine	coarse	fine
Wentworth Classification	0.000	3.077	26.047	70.504	0.373	0.000	0.000	0.000	0.000
Unified Classification	0.000	0.000	8.249	92.866	0.884	0.000	0.000	0.000	0.000

Standard Statistics :

		Median		Mean		Dev.		Skew		Kurt	
Method of Moments (PHI)		2.41	0.63	2.35	0.63	-0.42	3.55	-0.16	1.00		
Folk Graphic Measures (PHI)		0.19	0.20	2.37	0.61	-0.16	1.00				
Grain Size (mm)											

fine sand, med. well sorted,  
slightly coarse-textured, silt. 90 phi

Offshore Pensacola, FL (PEN-93-01)

Locality Shelf Type Sand Sample 525 cm Date 7-29-93 Profile Analysis Date 4-27-94 Analyz TB/RM

X Position : 30:01.04 Y Position : 87:31.51

Elevation of Top of Core : 95'  
Length of Core : 5.48 m  
Depth to Top of Sample : 520 cm  
Depth to Bottom of Sample : 530 cm

Comments : Thuy Bul

Start Weight : 11.900 Final Weight : 11.865 Deviation : 0.294 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.25	0.841	0.000	0.000	0.000	2.75	0.149	1.513	12.752	72.760
0.50	0.707	0.032	0.270	0.270	3.00	0.125	1.577	13.291	86.051
0.75	0.595	0.132	1.113	1.382	3.25	0.105	1.123	9.465	95.516
1.00	0.500	0.469	3.953	5.335	3.50	0.088	0.319	2.689	98.205
1.25	0.420	0.673	5.672	11.007	3.75	0.074	0.160	1.349	99.553
1.50	0.354	0.677	5.706	16.713	4.00	0.063	0.053	0.447	100.000
1.75	0.297	0.918	7.737	24.450	4.25	0.053	0.000	0.000	100.000
2.00	0.250	1.740	14.665	39.115	4.50	0.044	0.000	0.000	100.000
2.25	0.210	0.931	7.847	46.962	4.75	0.037	0.000	0.000	100.000
2.50	0.177	1.548	13.047	60.008					

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	5.335	33.780	60.885	0.000	0.000	0.000
Unified Classification	0.000	0.000	11.007	88.546	0.447	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.23	0.70	-0.26	2.37
Folk Graphic Measures (PHI)	2.31	2.25	0.72	-0.15	0.90
Grain Size (mm)	0.20	0.21			

fine sand, no shell, no 0.075 mm  
coarse - all sand, no shell, no 0.075 mm

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 10 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TB/RM

X Position : 30:01.75 Y Position : 87:21.22

Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 5 cm  
Depth to Bottom of Sample : 15 cm

Comments : Thuy Bul

Start Weight : 9.720 Final Weight : 9.657 Deviation : 0.710 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.862	19.281	39.039
0.25	1.189	0.003	0.031	0.031	2.25	0.210	1.242	12.861	51.900
0.00	1.000	0.004	0.041	0.072	2.50	0.177	1.961	20.307	72.207
0.25	0.841	0.017	0.176	0.249	2.75	0.149	1.157	11.981	84.188
0.50	0.707	0.030	0.311	0.559	3.00	0.125	0.706	7.311	91.498
0.75	0.595	0.087	0.901	1.460	3.25	0.105	0.382	3.956	95.454
1.00	0.500	0.257	2.661	4.121	3.50	0.088	0.130	1.346	96.800
1.25	0.420	0.403	4.173	8.295	3.75	0.074	0.083	0.859	97.660
1.50	0.354	0.411	4.256	12.550	4.00	0.063	0.067	0.694	98.354
1.75	0.297	0.696	7.207	19.758	4.25	0.053	0.159	1.646	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	4.121	34.918	59.114	1.646	0.000	0.000
Unified Classification	0.000	0.000	8.295	89.365	2.340	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.19	0.65	0.13	1.92
Folk Graphic Measures (PHI)	2.21	2.19	0.61	0.06	1.20
Grain Size (mm)	0.22	0.22			



Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 25 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TH/RM  
X Position : 30:01.75 Y Position : 87:21.22  
Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bul

Start Weight : 11.328 Final Weight : 11.297 Deviation : 0.274 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.453	21.714	45.809
-0.25	1.189	0.002	0.018	0.018	2.25	0.210	1.497	13.251	59.060
0.00	1.000	0.018	0.159	0.177	2.50	0.177	2.343	20.740	79.800
0.25	0.841	0.036	0.319	0.496	2.75	0.149	1.211	10.720	90.520
0.50	0.707	0.065	0.575	1.071	3.00	0.125	0.626	5.541	96.061
0.75	0.595	0.131	1.160	2.231	3.25	0.105	0.268	2.372	98.433
1.00	0.500	0.418	3.700	5.931	3.50	0.088	0.058	0.513	98.947
1.25	0.420	0.580	5.134	11.065	3.75	0.074	0.031	0.274	99.221
1.50	0.354	0.572	5.063	16.128	4.00	0.063	0.024	0.212	99.433
1.75	0.297	0.900	7.967	24.095	4.25	0.053	0.064	0.567	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	5.931	39.878	51.625	0.567	0.000
Unified Classification	0.000	0.000	11.065	88.156	0.779	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.05	0.61	-0.25	3.90
Folk Graphic Measures (PHI)		2.08	2.06	0.58	-0.10	1.21
Grain Size (mm)		0.24	0.24			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 50 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TH/RM  
X Position : 30:01.75 Y Position : 87:21.22  
Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bul

Start Weight : 11.284 Final Weight : 11.240 Deviation : 0.390 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.372	21.103	48.496
-0.25	1.189	0.009	0.080	0.080	2.25	0.210	1.469	13.069	61.566
0.00	1.000	0.020	0.178	0.258	2.50	0.177	2.223	19.778	81.343
0.25	0.841	0.050	0.445	0.703	2.75	0.149	1.137	10.116	91.459
0.50	0.707	0.089	0.792	1.495	3.00	0.125	0.583	5.187	96.646
0.75	0.595	0.200	1.779	3.274	3.25	0.105	0.239	2.126	98.772
1.00	0.500	0.515	4.582	7.856	3.50	0.088	0.051	0.454	99.226
1.25	0.420	0.637	5.667	13.523	3.75	0.074	0.026	0.231	99.457
1.50	0.354	0.625	5.560	19.084	4.00	0.063	0.018	0.160	99.617
1.75	0.297	0.934	8.110	27.393	4.25	0.053	0.043	0.383	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	7.856	40.641	51.121	0.383	0.000
Unified Classification	0.000	0.000	13.523	85.934	0.543	0.000
Standard Statistics :		Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)			2.00	0.63	0.36	3.64
Folk Graphic Measures (PHI)		2.03	1.99	0.62	-0.12	1.15
Grain Size (mm)		0.25	0.25			

Offshore Pensacola, FL (PEN-93-2)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 75 cm 7-29-93 11-7-94 TB/RM

X Position : 30:01.75 Y Position : 87:21.22

Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.052 Final Weight : 11.020 Deviation : 0.290 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.267	20.572	49.283
-0.25	1.189	0.009	0.082	0.082	2.25	0.210	1.401	12.713	61.996
0.00	1.000	0.013	0.118	0.200	2.50	0.177	2.104	19.093	81.089
0.25	0.841	0.053	0.481	0.681	2.75	0.149	1.081	9.809	90.898
0.50	0.707	0.089	0.808	1.488	3.00	0.125	0.595	5.399	96.298
0.75	0.595	0.194	1.760	3.249	3.25	0.105	0.244	2.214	98.512
1.00	0.500	0.569	5.163	8.412	3.50	0.088	0.057	0.517	99.029
1.25	0.420	0.688	6.243	14.655	3.75	0.074	0.032	0.290	99.319
1.50	0.354	0.629	5.708	20.363	4.00	0.063	0.022	0.200	99.519
1.75	0.297	0.920	8.348	28.711	4.25	0.053	0.053	0.481	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	8.412	40.871	50.236
Unified Classification	0.000	0.000	14.655	84.664

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.99	0.64	-0.26	3.51
Folk Graphic Measures (PHI)	2.01	1.97	0.64	-0.12	1.10
Grain Size (mm)	0.25	0.25			

Offshore Pensacola, FL (PEN-93-2)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 100 cm 7-29-93 11-7-94 TB/RM

X Position : 30:01.75 Y Position : 87:21.22

Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.196 Final Weight : 11.161 Deviation : 0.313 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.319	20.778	47.989
-0.25	1.189	0.012	0.108	0.108	2.25	0.210	1.392	12.472	60.461
0.00	1.000	0.020	0.179	0.287	2.50	0.177	2.186	19.586	80.047
0.25	0.841	0.062	0.556	0.842	2.75	0.149	1.137	10.187	90.234
0.50	0.707	0.081	0.726	1.568	3.00	0.125	0.645	5.779	96.013
0.75	0.595	0.196	1.756	3.324	3.25	0.105	0.273	2.446	98.459
1.00	0.500	0.530	4.749	8.073	3.50	0.088	0.062	0.556	99.014
1.25	0.420	0.621	5.564	13.637	3.75	0.074	0.015	0.314	99.328
1.50	0.354	0.603	5.403	19.040	4.00	0.063	0.022	0.197	99.525
1.75	0.297	0.912	8.171	27.211	4.25	0.053	0.053	0.475	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	8.073	39.916	51.537
Unified Classification	0.000	0.000	13.637	85.691

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.01	0.65	-0.33	3.64
Folk Graphic Measures (PHI)	2.04	2.00	0.63	-0.12	1.15
Grain Size (mm)	0.24	0.25			

Offshore Pensacola, FL (PEN-91-2)

Locality Shelf Type Sand Sample 125 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TH/RM  
 X Position : 30:01.75 Y Position : 87:21.22  
 Elevation of Top of Core : 97'  
 Length of Core : 3.68 m  
 Depth to Top of Sample : 120 cm  
 Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 9.746 Final Weight : 9.711 Deviation : 0.359 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.994	20.533	46.380
-0.25	1.189	0.005	0.051	0.051	2.25	0.210	1.220	12.563	58.943
0.00	1.000	0.012	0.124	0.175	2.50	0.177	1.926	19.833	78.777
0.25	0.841	0.042	0.432	0.608	2.75	0.149	1.039	10.699	89.476
0.50	0.707	0.074	0.762	1.370	3.00	0.125	0.589	6.065	95.541
0.75	0.595	0.153	1.576	2.945	3.25	0.105	0.261	2.688	98.229
1.00	0.500	0.432	4.449	7.394	3.50	0.088	0.063	0.649	98.878
1.25	0.420	0.541	5.571	12.965	3.75	0.074	0.038	0.391	99.269
1.50	0.354	0.461	4.747	17.712	4.00	0.063	0.022	0.227	99.495
1.75	0.297	0.790	8.135	25.847	4.25	0.053	0.049	0.505	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	7.394	38.987	53.115	0.505	0.000
Unified Classification	0.000	0.000	12.965	86.304	0.731	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.04	0.64	-0.28	3.61
Folk Graphic Measures (PHI)	2.07	2.03	0.62	-0.12	1.19
Grain Size (mm)	0.24	0.24			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 150 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TH/RM  
 X Position : 30:01.75 Y Position : 87:21.22  
 Elevation of Top of Core : 97'  
 Length of Core : 3.68 m  
 Depth to Top of Sample : 145 cm  
 Depth to Bottom of Sample : 155 cm

Comments : Thuy Bul

Start Weight : 8.928 Final Weight : 8.899 Deviation : 0.325 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.822	20.474	47.140
-0.25	1.189	0.005	0.056	0.056	2.25	0.210	1.127	12.664	59.804
0.00	1.000	0.017	0.191	0.247	2.50	0.177	1.741	19.564	79.368
0.25	0.841	0.030	0.337	0.584	2.75	0.149	0.925	10.394	89.763
0.50	0.707	0.070	0.787	1.371	3.00	0.125	0.522	5.866	95.629
0.75	0.595	0.137	1.539	2.910	3.25	0.105	0.231	2.596	98.225
1.00	0.500	0.407	4.574	7.484	3.50	0.088	0.055	0.618	98.843
1.25	0.420	0.528	5.933	13.417	3.75	0.074	0.033	0.371	99.213
1.50	0.354	0.458	5.147	18.564	4.00	0.063	0.021	0.216	99.449
1.75	0.297	0.721	8.102	26.666	4.25	0.053	0.049	0.551	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	7.484	39.656	52.309	0.551	0.000
Unified Classification	0.000	0.000	13.417	85.796	0.787	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.03	0.64	-0.25	3.61
Folk Graphic Measures (PHI)	2.06	2.01	0.63	-0.12	1.16
Grain Size (mm)	0.24	0.25			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 175 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TB/RM

X Position : 30:01.75 Y Position : 87:21.22

Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.131 Final Weight : 11.096 Deviation : 0.314 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.339	21.080	55.317
-0.25	1.189	0.008	0.072	0.072	2.25	0.210	1.313	11.833	67.150
0.00	1.000	0.051	0.460	0.532	2.50	0.177	1.936	17.448	84.598
0.25	0.841	0.079	0.712	1.244	2.75	0.149	0.947	8.535	93.133
0.50	0.707	0.161	1.451	2.695	3.00	0.125	0.481	4.335	97.468
0.75	0.595	0.326	2.938	5.633	3.25	0.105	0.184	1.658	99.126
1.00	0.500	0.744	6.705	12.338	3.50	0.088	0.034	0.306	99.432
1.25	0.420	0.801	7.219	19.557	3.75	0.074	0.019	0.171	99.603
1.50	0.354	0.644	5.804	25.360	4.00	0.063	0.012	0.108	99.712
1.75	0.297	0.985	8.877	34.238	4.25	0.053	0.032	0.288	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	12.338	42.979	44.394
Unified Classification	0.000	0.000	19.557	80.047

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.88	0.67	-0.36	3.20
Folk Graphic Measures (PHI)	1.94	1.85	0.67	-0.17	1.01
Grain Size (mm)	0.26	0.27			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 200 cm Date 7-29-93 Profile Analysis Date 11-7-94 Analyz TB/RM

X Position : 30:01.75 Y Position : 87:21.22

Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.018 Final Weight : 10.960 Deviation : 0.454 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	2.179	19.867	58.388
-0.25	1.189	0.012	0.109	0.109	2.25	0.210	1.243	11.333	69.721
0.00	1.000	0.074	0.675	0.784	2.50	0.177	1.762	16.065	85.786
0.25	0.841	0.168	1.532	2.316	2.75	0.149	0.865	7.887	93.673
0.50	0.707	0.221	2.015	4.331	3.00	0.125	0.443	4.039	97.712
0.75	0.595	0.409	3.729	8.060	3.25	0.105	0.167	1.523	99.234
1.00	0.500	0.867	7.905	15.965	3.50	0.088	0.032	0.292	99.526
1.25	0.420	0.873	7.960	23.924	3.75	0.074	0.018	0.164	99.690
1.50	0.354	0.635	5.790	29.714	4.00	0.063	0.011	0.100	99.790
1.75	0.297	0.966	8.807	38.521	4.25	0.053	0.023	0.210	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	15.965	42.423	41.402
Unified Classification	0.000	0.000	23.924	75.766

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.81	0.71	-0.37	2.93
Folk Graphic Measures (PHI)	1.89	1.79	0.71	-0.20	0.91
Grain Size (mm)	0.27	0.29			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 225 cm Date 7-29-93 Profile Analysis Date 11-9-94 Analyz TB/RM  
X Position : 30;01.75 Y Position : 87;21.22  
Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 11.197 Final Weight : 11.140 Deviation : 0.509 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.883	16.903	58.025
-0.50	1.414	0.025	0.224	0.224	2.25	0.210	1.177	10.566	68.591
-0.25	1.189	0.073	0.655	0.880	2.50	0.177	1.714	15.386	83.977
0.00	1.000	0.112	1.005	1.885	2.75	0.149	0.951	8.537	92.513
0.25	0.841	0.280	2.513	4.399	3.00	0.125	0.513	4.605	97.118
0.50	0.707	0.359	3.223	7.621	3.25	0.105	0.189	1.697	98.815
0.75	0.595	0.584	5.242	12.864	3.50	0.088	0.050	0.449	99.264
1.00	0.500	0.936	8.402	21.266	3.75	0.074	0.028	0.251	99.515
1.25	0.420	0.763	6.849	28.115	4.00	0.063	0.018	0.162	99.677
1.50	0.354	0.616	5.530	33.645	4.25	0.053	0.016	0.323	100.000
1.75	0.297	0.833	7.478	41.122					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	21.266	36.759	41.652
Unified Classification	0.000	0.000	28.115	71.400

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.75	0.81	0.38	2.77
Folk Graphic Measures (PHI)	1.88	1.74	0.81	-0.24	0.87
Grain Size (mm)	0.27	0.10			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 250 cm Date 7-29-93 Profile Analysis Date 11-9-94 Analyz TB/RM  
X Position : 30;01.75 Y Position : 87;21.22  
Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bui

Start Weight : 11.206 Final Weight : 11.155 Deviation : 0.455 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	0.786	7.046	51.161
-1.00	2.000	0.000	0.000	0.000	2.00	0.250	1.674	15.007	66.168
-0.75	1.682	0.005	0.045	0.045	2.25	0.210	0.944	8.463	74.630
-0.50	1.414	0.050	0.448	0.493	2.50	0.177	1.426	12.784	87.414
-0.25	1.189	0.133	1.192	1.685	2.75	0.149	0.730	6.544	93.958
0.00	1.000	0.265	2.376	4.061	3.00	0.125	0.393	3.523	97.481
0.25	0.841	0.474	4.249	8.310	3.25	0.105	0.168	1.506	98.987
0.50	0.707	0.611	5.477	13.788	3.50	0.088	0.046	0.412	99.399
0.75	0.595	0.789	7.073	20.861	3.75	0.074	0.023	0.206	99.606
1.00	0.500	1.145	10.264	31.125	4.00	0.063	0.015	0.134	99.740
1.25	0.420	0.844	7.566	38.691	4.25	0.053	0.029	0.260	100.000
1.50	0.354	0.605	5.424	44.115					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	31.125	35.043	31.572
Unified Classification	0.000	0.000	38.691	60.914

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.55	0.88	-0.18	2.37
Folk Graphic Measures (PHI)	1.71	1.57	0.88	-0.21	0.81
Grain Size (mm)	0.31	0.34			

## Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 275 cm Date 7-29-93 Profile Analyze Date 11-9-94 TH/RM  
 X Position : 10:01.75 Y Position : 87:21.22  
 Elevation of Top of Core : 97'  
 Length of Core : 3.68 m  
 Depth to Top of Sample : 270 cm  
 Depth to Bottom of Sample : 280 cm  
 Comments : Thuy Bul

Start Weight	11.186	Final Weight	11.164	Deviation	0.197	
PHI	MM	Weight	Percent	Cumul	Percent	
-1.25	2.378	0.000	0.000	0.000	6.817	46.247
-1.50	2.000	0.029	0.260	0.260	15.496	61.743
-1.75	1.682	0.028	0.251	0.511	9.289	71.032
-2.00	1.414	0.075	0.672	1.182	14.618	85.650
-2.25	1.189	0.175	1.568	2.750	7.372	93.022
-2.50	1.000	0.229	2.051	4.801	4.111	97.134
-2.75	0.841	0.420	3.762	8.563	1.774	98.907
-3.00	0.707	0.437	3.914	12.478	0.457	99.364
-3.25	0.595	0.637	5.706	18.183	0.051	99.415
-3.50	0.500	1.007	9.020	27.204	0.233	99.597
-3.75	0.420	0.780	6.967	34.190	0.143	99.740
-4.00	0.354	0.585	5.240	39.430	0.029	100.000

## Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Weight Classification	0.260	26.944	34.540	37.997	0.260	0.000
Unified Classification	0.000	0.260	33.930	65.407	0.401	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		1.62	0.90	-0.43	2.70	
Folk Graphic Measures (PHI)	1.81	1.65	0.89	-0.27	0.85	
Grain Size (mm)	0.29	0.33				

## Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 300 cm Date 7-29-93 Profile Analyze Date 11-9-94 TH/RM  
 X Position : 10:01.75 Y Position : 87:21.22  
 Elevation of Top of Core : 97'  
 Length of Core : 3.68 m  
 Depth to Top of Sample : 295 cm  
 Depth to Bottom of Sample : 305 cm  
 Comments : Thuy Bul

Start Weight	11.131	Final Weight	11.092	Deviation	0.150	
PHI	MM	Weight	Percent	Cumul	Percent	
-1.75	3.164	0.000	0.000	0.000	1.50	0.354
-1.50	2.828	0.000	0.000	0.000	1.75	0.497
-1.25	2.378	0.000	0.622	0.622	2.00	0.250
-1.00	2.000	0.095	0.856	1.479	2.25	0.210
-0.75	1.682	0.189	1.704	3.182	2.50	0.177
-0.50	1.414	0.338	3.047	6.230	2.75	0.149
-0.25	1.189	0.408	3.678	9.908	3.00	0.125
0.00	1.000	0.432	3.895	13.803	3.25	0.105
0.25	0.841	0.647	5.833	19.636	3.50	0.088
0.50	0.707	0.575	5.184	24.820	3.75	0.074
0.75	0.595	0.652	6.239	31.058	4.00	0.063
1.00	0.500	0.852	7.681	38.740	4.25	0.053
1.25	0.420	0.618	5.572	44.311		

## Sample Content by Weight Percent :

Gravel	coarse	Sand	medium	fine	Silt	Clay
Weight Classification	1.479	37.261	28.083	32.952	0.225	0.000
Unified Classification	0.000	1.479	42.833	55.346	0.143	0.000
Standard Statistics :						
	Median	Mean	Dev.	Skew	Kurt	
Method of Moments (PHI)		1.34	1.10	-0.36	2.25	
Folk Graphic Measures (PHI)	1.58	1.37	1.11	-0.26	0.80	
Grain Size (mm)	0.33	0.39				

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 325 cm Date 7-29-93 Profile Analysis Date 11-9-94 Analyz TB/RM  
X Position : 30:01.75 Y Position : 87:21.22  
Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 11.642 Final Weight : 11.584 Deviation : 0.498 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.75	3.364	0.000	0.000	0.000	1.50	0.354	0.469	4.049	54.368
-1.50	2.828	0.045	0.388	0.388	1.75	0.297	0.607	5.240	59.608
-1.25	2.378	0.234	2.020	2.408	2.00	0.250	1.458	12.586	72.194
-1.00	2.000	0.255	2.201	4.610	2.25	0.210	0.793	6.846	79.040
-0.75	1.682	0.241	2.080	6.690	2.50	0.177	1.254	10.825	89.865
-0.50	1.414	0.419	3.617	10.307	2.75	0.149	0.649	5.603	95.468
-0.25	1.189	0.258	2.227	12.535	3.00	0.125	0.333	2.875	98.343
0.00	1.000	0.389	3.358	15.893	3.25	0.105	0.126	1.088	99.430
0.25	0.841	0.750	6.474	22.367	3.50	0.088	0.028	0.242	99.672
0.50	0.707	0.739	6.379	28.747	3.75	0.074	0.013	0.112	99.784
0.75	0.595	0.820	7.079	35.825	4.00	0.063	0.008	0.069	99.853
1.00	0.500	1.010	8.719	44.544	4.25	0.053	0.017	0.147	100.000
1.25	0.420	0.669	5.775	50.319					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	4.610	39.934	27.650	0.147
Unified Classification	0.000	4.610	45.710	0.216

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.17	1.14	-0.37	2.34
Folk Graphic Measures (PHI)	1.24	1.20	1.15	-0.12	0.86
Grain Size (mm)	0.42	0.44			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 350 cm Date 7-29-93 Profile Analysis Date 11-9-94 Analyz TB/RM  
X Position : 30:01.75 Y Position : 87:21.22  
Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 11.604 Final Weight : 11.573 Deviation : 0.267 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.75	3.364	0.000	0.000	0.000	1.50	0.354	0.367	3.171	45.451
-1.50	2.828	0.122	1.054	1.054	1.75	0.297	0.519	4.485	49.935
-1.25	2.378	0.533	4.606	5.660	2.00	0.250	1.418	12.253	62.188
-1.00	2.000	0.255	2.203	7.863	2.25	0.210	0.924	7.984	70.172
-0.75	1.682	0.250	2.160	10.023	2.50	0.177	1.575	13.609	83.781
-0.50	1.414	0.513	4.433	14.456	2.75	0.149	0.973	8.408	92.189
-0.25	1.189	0.272	2.350	16.806	3.00	0.125	0.529	4.571	96.760
0.00	1.000	0.333	2.877	19.684	3.25	0.105	0.217	2.048	98.808
0.25	0.841	0.496	4.286	23.970	3.50	0.088	0.060	0.518	99.326
0.50	0.707	0.485	4.191	28.160	3.75	0.074	0.033	0.285	99.611
0.75	0.595	0.530	4.580	32.740	4.00	0.063	0.016	0.138	99.749
1.00	0.500	0.643	5.556	38.296	4.25	0.053	0.029	0.251	100.000
1.25	0.420	0.461	3.983	42.279					

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	7.863	30.433	23.892	0.251
Unified Classification	0.000	7.863	34.416	0.389

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.28	1.31	-0.58	2.26
Folk Graphic Measures (PHI)	1.75	1.31	1.35	-0.46	0.85
Grain Size (mm)	0.30	0.41			

Offshore Pensacola, FL (PEN-93-2)

Locality Shelf Type Sand Sample 368 cm Date 7-29-93 Profile Analysis Date 11-9-94 Analyz TB/RM

X Position : 30:01.75 Y Position : 87:21.22

Elevation of Top of Core : 97'  
Length of Core : 3.68 m  
Depth to Top of Sample : 363 cm  
Depth to Bottom of Sample : 373 cm

Comments : Thuy Bui

Start Weight : 9.458 Final Weight : 9.441 Deviation : 0.180 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.75	3.364	0.000	0.000	0.000	1.50	0.354	0.321	3.400	27.751
-1.50	2.828	0.116	1.229	1.229	1.75	0.297	0.484	5.127	32.878
-1.25	2.378	0.261	2.765	3.993	2.00	0.250	1.474	15.613	48.491
-1.00	2.000	0.250	2.648	6.641	2.25	0.210	0.963	10.200	58.691
-0.75	1.682	0.130	1.377	8.018	2.50	0.177	1.734	18.367	77.058
-0.50	1.414	0.227	2.404	10.423	2.75	0.149	1.098	11.630	88.688
-0.25	1.189	0.072	0.763	11.185	3.00	0.125	0.614	6.504	95.191
0.00	1.000	0.057	0.604	11.789	3.25	0.105	0.280	2.966	98.157
0.25	0.841	0.177	1.875	13.664	3.50	0.088	0.073	0.773	98.930
0.50	0.707	0.142	1.504	15.168	3.75	0.074	0.043	0.455	99.386
0.75	0.595	0.214	2.267	17.435	4.00	0.063	0.021	0.222	99.608
1.00	0.500	0.307	3.252	20.686	4.25	0.053	0.037	0.392	100.000
1.25	0.420	0.346	3.665	24.351					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	6.641	14.945	27.804	51.117	0.392	0.000
Unified Classification	0.000	6.641	17.710	75.034	0.614	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.70	1.20	-1.24	3.85
Folk Graphic Measures (PHI)	2.04	1.76	1.14	-0.47	1.45
Grain Size (mm)	0.24	0.31			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 5 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 6.731 Final Weight : 6.724 Deviation : 0.104 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.679	10.098	71.386
0.25	0.841	0.005	0.074	0.074	2.50	0.177	0.871	12.954	84.340
0.50	0.707	0.023	0.342	0.416	2.75	0.149	0.442	6.573	90.913
0.75	0.595	0.058	0.883	1.279	3.00	0.125	0.300	4.462	95.375
1.00	0.500	0.273	4.060	5.339	3.25	0.105	0.190	2.826	98.200
1.25	0.420	0.537	7.986	13.325	3.50	0.088	0.055	0.818	99.018
1.50	0.354	0.630	9.369	22.695	3.75	0.074	0.025	0.372	99.390
1.75	0.297	0.900	13.385	36.080	4.00	0.063	0.012	0.178	99.569
2.00	0.250	1.695	25.208	61.288	4.25	0.053	0.029	0.431	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	5.339	55.949	38.281	0.431	0.000
Unified Classification	0.000	0.000	13.325	86.065	0.610	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.93	0.60	0.36	3.47
Folk Graphic Measures (PHI)	1.89	1.90	0.60	0.06	1.06
Grain Size (mm)	0.27	0.26			



Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 25 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 8.180 Final Weight : 8.161 Deviation : 0.232 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.306	3.750	93.481
0.00	1.000	0.017	0.208	0.208	2.50	0.177	0.283	3.468	96.949
0.25	0.841	0.066	0.809	1.017	2.75	0.149	0.109	1.336	98.285
0.50	0.707	0.155	1.899	2.916	3.00	0.125	0.059	0.723	99.007
0.75	0.595	0.464	5.686	8.602	3.25	0.105	0.039	0.478	99.485
1.00	0.500	1.331	16.309	24.911	3.50	0.088	0.015	0.184	99.669
1.25	0.420	1.551	19.005	43.916	3.75	0.074	0.008	0.098	99.767
1.50	0.354	1.222	14.974	58.890	4.00	0.063	0.006	0.074	99.841
1.75	0.297	1.319	16.162	75.052	4.25	0.053	0.013	0.159	100.000
2.00	0.250	1.198	14.680	89.732					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	24.911	64.820	10.109	0.159	0.000
Unified Classification	0.000	0.000	43.916	55.851	0.233	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.40	0.55	0.66	4.47
Folk Graphic Measures (PHI)	1.35	1.37	0.53	0.10	0.97
Grain Size (mm)	0.39	0.38			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 50 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.077 Final Weight : 11.058 Deviation : 0.172 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.355	3.210	94.773
0.25	0.841	0.089	0.805	0.805	2.50	0.177	0.318	2.876	97.649
0.50	0.707	0.205	1.854	2.659	2.75	0.149	0.113	1.022	98.671
0.75	0.595	0.572	5.173	7.831	3.00	0.125	0.059	0.534	99.204
1.00	0.500	1.784	16.133	23.965	3.25	0.105	0.041	0.371	99.575
1.25	0.420	2.301	20.808	44.773	3.50	0.088	0.015	0.136	99.711
1.50	0.354	1.746	15.789	60.562	3.75	0.074	0.009	0.081	99.792
1.75	0.297	1.726	15.609	76.171	4.00	0.063	0.008	0.072	99.864
2.00	0.250	1.702	15.392	91.563	4.25	0.053	0.015	0.136	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	23.965	67.598	8.302	0.136	0.000
Unified Classification	0.000	0.000	44.773	55.019	0.208	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.38	0.52	0.68	4.69
Folk Graphic Measures (PHI)	1.33	1.36	0.50	0.11	0.94
Grain Size (mm)	0.40	0.38			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 75 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 8.992 Final Weight : 8.975 Deviation : 0.189 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.349	3.889	92.981
0.25	0.841	0.050	0.557	0.557	2.50	0.177	0.330	3.677	96.657
0.50	0.707	0.143	1.593	2.150	2.75	0.149	0.125	1.393	98.050
0.75	0.595	0.418	4.657	6.808	3.00	0.125	0.071	0.791	98.841
1.00	0.500	1.362	15.175	21.983	3.25	0.105	0.047	0.524	99.365
1.25	0.420	1.718	19.142	41.125	3.50	0.088	0.020	0.223	99.588
1.50	0.354	1.378	15.354	56.479	3.75	0.074	0.013	0.145	99.733
1.75	0.297	1.408	15.688	72.167	4.00	0.063	0.007	0.078	99.811
2.00	0.250	1.519	16.925	89.092	4.25	0.053	0.017	0.189	100.000

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	21.983	67.109	10.719	0.189	0.000	
Unified Classification	0.000	0.000	41.125	58.607	0.267	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.44	0.55	0.74	4.63
Folk Graphic Measures (PHI)	1.39	1.41	0.52	0.09	0.94
Grain Size (mm)	0.38	0.37			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 100 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.216 Final Weight : 11.187 Deviation : 0.259 %

PHI	MM	Weight	Perent	Cumul Perent	PHI	MM	Weight	Perent	Cumul Perent
-0.25	1.189	0.000	0.000	0.000	2.25	0.210	0.353	3.155	94.949
0.00	1.000	0.090	0.805	0.805	2.50	0.177	0.308	2.753	97.703
0.25	0.841	0.332	2.968	3.772	2.75	0.149	0.114	1.019	98.722
0.50	0.707	0.502	4.487	8.260	3.00	0.125	0.059	0.527	99.249
0.75	0.595	0.993	8.876	17.136	3.25	0.105	0.038	0.340	99.589
1.00	0.500	2.042	18.253	35.389	3.50	0.088	0.016	0.143	99.732
1.25	0.420	2.033	18.173	53.562	3.75	0.074	0.009	0.080	99.812
1.50	0.354	1.460	13.051	66.613	4.00	0.063	0.006	0.054	99.866
1.75	0.297	1.457	13.024	79.637	4.25	0.053	0.015	0.134	100.000
2.00	0.250	1.360	12.157	91.794					

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	35.389	56.405	8.072	0.134	0.000	
Unified Classification	0.000	0.000	53.562	46.250	0.188	0.000	

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.26	0.59	0.49	4.02
Folk Graphic Measures (PHI)	1.20	1.25	0.57	0.11	0.99
Grain Size (mm)	0.43	0.42			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 125 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 8.340 Final Weight : 8.319 Deviation : 0.252 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.168	14.040	89.963
-0.25	1.189	0.020	0.240	0.240	2.25	0.210	0.320	3.847	93.809
0.00	1.000	0.051	0.613	0.853	2.50	0.177	0.273	3.282	97.091
0.25	0.841	0.152	1.827	2.681	2.75	0.149	0.106	1.274	98.365
0.50	0.707	0.232	2.789	5.469	3.00	0.125	0.054	0.649	99.014
0.75	0.595	0.575	6.912	12.381	3.25	0.105	0.039	0.469	99.483
1.00	0.500	1.433	17.226	29.607	3.50	0.088	0.014	0.168	99.651
1.25	0.420	1.555	18.692	48.299	3.75	0.074	0.009	0.108	99.760
1.50	0.354	1.176	14.136	62.435	4.00	0.063	0.006	0.072	99.832
1.75	0.297	1.122	13.487	75.923	4.25	0.053	0.014	0.168	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	29.607	60.356	9.869	0.168	0.000
Unified Classification	0.000	0.000	48.299	51.461	0.240	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.34	0.59	0.49	4.28
Folk Graphic Measures (PHI)	1.28	1.33	0.56	0.13	0.96
Grain Size (mm)	0.41	0.40			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 150 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RM

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 11.271 Final Weight : 11.237 Deviation : 0.302 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.579	14.052	90.273
-0.25	1.189	0.029	0.258	0.258	2.25	0.210	0.403	3.586	93.860
0.00	1.000	0.062	0.552	0.810	2.50	0.177	0.346	3.079	96.939
0.25	0.841	0.195	1.735	2.545	2.75	0.149	0.132	1.175	98.113
0.50	0.707	0.359	3.195	5.740	3.00	0.125	0.076	0.676	98.790
0.75	0.595	0.855	7.609	13.349	3.25	0.105	0.052	0.463	99.252
1.00	0.500	1.916	17.051	30.400	3.50	0.088	0.021	0.187	99.439
1.25	0.420	2.082	18.528	48.928	3.75	0.074	0.016	0.142	99.582
1.50	0.354	1.605	14.283	63.211	4.00	0.063	0.014	0.125	99.706
1.75	0.297	1.462	13.011	76.221	4.25	0.053	0.033	0.294	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	30.400	59.874	9.433	0.294	0.000
Unified Classification	0.000	0.000	48.928	50.654	0.418	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.33	0.60	0.65	4.78
Folk Graphic Measures (PHI)	1.27	1.32	0.56	0.13	0.97
Grain Size (mm)	0.42	0.40			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 175 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RH

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.455 Final Weight : 11.423 Deviation : 0.279 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.642	14.375	88.619
-0.25	1.189	0.011	0.096	0.096	2.25	0.210	0.439	3.843	92.463
0.00	1.000	0.034	0.298	0.394	2.50	0.177	0.397	3.475	95.938
0.25	0.841	0.120	1.051	1.444	2.75	0.149	0.161	1.409	97.347
0.50	0.707	0.284	2.486	1.931	3.00	0.125	0.101	0.884	98.232
0.75	0.595	0.744	6.513	10.444	3.25	0.105	0.079	0.692	98.923
1.00	0.500	2.006	17.561	28.005	3.50	0.088	0.036	0.315	99.238
1.25	0.420	2.128	18.629	46.634	3.75	0.074	0.025	0.219	99.457
1.50	0.354	1.649	14.436	61.070	4.00	0.063	0.020	0.175	99.632
1.75	0.297	1.505	13.175	74.245	4.25	0.053	0.042	0.368	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	28.005	60.615	11.013	0.368	0.000
Unified Classification	0.000	0.000	46.634	52.823	0.543	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.38	0.61	0.87	5.03
Folk Graphic Measures (PHI)	1.31	1.35	0.56	0.15	0.96
Grain Size (mm)	0.40	0.38			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 200 cm Date 7-29-93 Profile Analysis Date 10-14-94 Analyz TB/RH

X Position : 30:02.56 Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.045 Final Weight : 11.011 Deviation : 0.308 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.490	13.532	88.766
-0.25	1.189	0.029	0.263	0.263	2.25	0.210	0.412	3.742	92.507
0.00	1.000	0.071	0.645	0.908	2.50	0.177	0.371	3.369	95.877
0.25	0.841	0.220	1.998	2.906	2.75	0.149	0.156	1.417	97.294
0.50	0.707	0.446	4.050	6.957	3.00	0.125	0.097	0.881	98.175
0.75	0.595	0.810	7.356	14.313	3.25	0.105	0.074	0.672	98.847
1.00	0.500	1.946	17.673	31.986	3.50	0.088	0.032	0.291	99.137
1.25	0.420	1.959	17.791	49.777	3.75	0.074	0.026	0.236	99.373
1.50	0.354	1.385	12.578	62.356	4.00	0.063	0.020	0.182	99.555
1.75	0.297	1.418	12.878	75.234	4.25	0.053	0.049	0.445	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	31.986	56.780	10.789	0.445	0.000
Unified Classification	0.000	0.000	49.777	49.596	0.627	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.34	0.65	0.76	4.80
Folk Graphic Measures (PHI)	1.25	1.31	0.60	0.15	1.00
Grain Size (mm)	0.42	0.40			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 225 cm Date 7-29-93 Profile Analysis Date 10-17-94 Analyz TB/RM  
X Position : 30:02.56 Y Position : 87:13.80  
Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bul

Start Weight : 11.313 Final Weight : 11.300 Deviation : 0.115 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	2.00	0.250	1.484	13.133	89.920
-0.25	1.189	0.066	0.584	0.584	2.25	0.210	0.403	3.566	93.487
0.00	1.000	0.123	1.088	1.673	2.50	0.177	0.356	3.150	96.637
0.25	0.841	0.299	2.646	4.319	2.75	0.149	0.147	1.301	97.938
0.50	0.707	0.471	4.168	8.487	3.00	0.125	0.083	0.735	98.673
0.75	0.595	0.903	7.991	16.478	3.25	0.105	0.066	0.584	99.257
1.00	0.500	1.916	16.956	33.434	3.50	0.088	0.026	0.230	99.487
1.25	0.420	2.060	18.230	51.664	3.75	0.074	0.020	0.177	99.664
1.50	0.354	1.444	12.779	64.442	4.00	0.063	0.015	0.133	99.796
1.75	0.297	1.395	12.345	76.788	4.25	0.053	0.023	0.204	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	33.434	56.487	9.876	0.204	0.000
Unified Classification	0.000	0.000	51.664	48.000	0.336	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.29	0.64	0.50	4.27
Folk Graphic Measures (PHI)	1.23	1.28	0.60	0.12	1.02
Grain Size (mm)	0.43	0.41			

Offshore Pensacola, FL (PEN-93-3a)

Locality Shelf Type Sand Sample 250 cm Date 7-29-93 Profile Analysis Date 10-17-94 Analyz TB/RM  
X Position : 30:02.56 Y Position : 87:13.80  
Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bul

Start Weight : 11.028 Final Weight : 11.013 Deviation : 0.136 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.298	11.786	91.655
-0.50	1.414	0.051	0.463	0.463	2.25	0.210	0.337	3.060	94.715
-0.25	1.189	0.124	1.126	1.589	2.50	0.177	0.291	2.642	97.358
0.00	1.000	0.257	2.334	3.923	2.75	0.149	0.113	1.026	98.384
0.25	0.841	0.480	4.358	8.281	3.00	0.125	0.071	0.645	99.028
0.50	0.707	0.555	5.039	13.321	3.25	0.105	0.045	0.409	99.437
0.75	0.595	0.898	8.154	21.475	3.50	0.088	0.022	0.200	99.637
1.00	0.500	1.883	17.098	38.573	3.75	0.074	0.016	0.145	99.782
1.25	0.420	1.912	17.361	55.934	4.00	0.063	0.011	0.100	99.882
1.50	0.354	1.334	12.113	68.047	4.25	0.053	0.013	0.118	100.000
1.75	0.297	1.302	11.822	79.869					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	38.573	53.083	8.227	0.118	0.000
Unified Classification	0.000	0.000	55.934	43.848	0.218	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.20	0.67	0.22	3.87
Folk Graphic Measures (PHI)	1.16	1.19	0.65	0.04	1.07
Grain Size (mm)	0.45	0.44			

Offshore Pensacola, FL (PEN-93-3a)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      275 cm      7-29-93           10-17-94      TB/RM

X Position : 30:02.56      Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bul

Start Weight : 11.099      Final Weight : 11.077      Deviation : 0.198 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.75	1.682	0.000	0.000	0.000	2.00	0.250	1.362	12.296	90.647
-0.50	1.414	0.024	0.217	0.217	2.25	0.210	0.370	3.340	91.988
-0.25	1.189	0.030	0.271	0.487	2.50	0.177	0.327	2.952	96.940
0.00	1.000	0.150	1.354	1.842	2.75	0.149	0.123	1.110	98.050
0.25	0.841	0.317	2.862	4.703	3.00	0.125	0.078	0.704	98.754
0.50	0.707	0.494	4.460	9.163	3.25	0.105	0.054	0.487	99.242
0.75	0.595	0.923	8.333	17.496	3.50	0.088	0.027	0.244	99.485
1.00	0.500	1.999	18.046	35.542	3.75	0.074	0.020	0.181	99.666
1.25	0.420	2.020	18.236	53.778	4.00	0.063	0.016	0.144	99.810
1.50	0.354	1.356	12.242	66.020	4.25	0.053	0.021	0.190	100.000
1.75	0.297	1.366	12.332	78.352					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	35.542	55.105	9.163	0.190	0.000
Unified Classification	0.000	0.000	53.778	45.888	0.334	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.26	0.64	0.51	4.37
Folk Graphic Measures (PHI)	1.20	1.26	0.60	0.12	1.02
Grain Size (mm)	0.44	0.42			

Offshore Pensacola, FL (PEN-93-3a)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      300 cm      7-29-93           10-17-94      TB/RM

X Position : 30:02.56      Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bul

Start Weight : 11.080      Final Weight : 11.046      Deviation : 0.307 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.313	11.887	78.897
-0.75	1.682	0.028	0.253	0.253	2.00	0.250	1.329	12.032	90.929
-0.50	1.414	0.082	0.742	0.996	2.25	0.210	0.364	3.295	94.224
-0.25	1.189	0.137	1.240	2.236	2.50	0.177	0.321	2.906	97.130
0.00	1.000	0.241	2.182	4.418	2.75	0.149	0.142	1.286	98.416
0.25	0.841	0.415	3.757	8.175	3.00	0.125	0.063	0.570	98.986
0.50	0.707	0.552	4.997	13.172	3.25	0.105	0.049	0.444	99.430
0.75	0.595	0.934	8.456	21.628	3.50	0.088	0.023	0.208	99.638
1.00	0.500	1.801	16.305	37.932	3.75	0.074	0.016	0.145	99.783
1.25	0.420	1.864	16.875	54.807	4.00	0.063	0.015	0.136	99.919
1.50	0.354	1.348	12.204	67.011	4.25	0.053	0.009	0.081	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	37.932	52.997	8.990	0.081	0.000
Unified Classification	0.000	0.000	54.807	44.976	0.217	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.21	0.69	0.10	3.84
Folk Graphic Measures (PHI)	1.18	1.21	0.66	0.03	1.08
Grain Size (mm)	0.44	0.43			

Offshore Pensacola, FL (PEN-93-3a)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      325 cm      7-29-93           10-17-94      TB/RM

X Position : 30:02.56      Y Position : 87:13.80

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bul

Start Weight : 11.096      Final Weight : 11.077      Deviation : 0.171 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.00	2.000	0.000	0.000	0.000	1.75	0.297	1.199	10.824	80.527
-0.75	1.682	0.039	0.352	0.352	2.00	0.250	1.231	11.113	91.640
-0.50	1.414	0.127	1.147	1.499	2.25	0.210	0.340	3.069	94.710
-0.25	1.189	0.173	1.562	3.060	2.50	0.177	0.296	2.672	97.382
0.00	1.000	0.309	2.790	5.850	2.75	0.149	0.125	1.128	98.510
0.25	0.841	0.626	5.651	11.501	3.00	0.125	0.065	0.587	99.097
0.50	0.707	0.656	5.922	17.423	3.25	0.105	0.048	0.433	99.531
0.75	0.595	0.962	8.685	26.108	3.50	0.088	0.021	0.190	99.720
1.00	0.500	1.846	16.665	42.773	3.75	0.074	0.014	0.126	99.847
1.25	0.420	1.762	15.907	58.680	4.00	0.063	0.012	0.108	99.955
1.50	0.354	1.221	11.023	69.703	4.25	0.053	0.005	0.045	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	42.773	48.867	8.315	0.045	0.000
Unified Classification	0.000	0.000	58.680	41.166	0.153	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.13	0.71	0.07	3.50
Folk Graphic Measures (PHI)	1.11	1.13	0.70	0.01	1.07
Grain Size (mm)	0.46	0.46			

Offshore Pensacola, FL (PEN-93-3a)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      350 cm      7-29-93           10-17-94      TB/RM

X Position : 30:02.56      Y Position : 87:13.00

Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bul

Start Weight : 11.797      Final Weight : 11.775      Deviation : 0.186 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.25	2.378	0.000	0.000	0.000	1.75	0.297	1.192	10.123	81.877
-1.00	2.000	0.047	0.399	0.399	2.00	0.250	1.262	10.718	92.594
-0.75	1.682	0.072	0.611	1.011	2.25	0.210	0.330	2.803	95.397
-0.50	1.414	0.230	1.953	2.964	2.50	0.177	0.289	2.454	97.851
-0.25	1.189	0.289	2.454	5.418	2.75	0.149	0.102	0.866	98.718
0.00	1.000	0.356	3.023	8.442	3.00	0.125	0.060	0.510	99.227
0.25	0.841	0.602	5.113	13.554	3.25	0.105	0.044	0.374	99.601
0.50	0.707	0.666	5.656	19.210	3.50	0.088	0.019	0.161	99.762
0.75	0.595	1.015	8.620	27.830	3.75	0.074	0.012	0.102	99.864
1.00	0.500	2.005	17.028	44.858	4.00	0.063	0.009	0.076	99.941
1.25	0.420	1.866	15.847	60.705	4.25	0.053	0.007	0.059	100.000
1.50	0.354	1.301	11.049	71.754					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.399	44.459	47.737	7.346	0.059	0.000
Unified Classification	0.000	0.399	60.306	39.159	0.136	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.07	0.74	-0.13	3.55
Folk Graphic Measures (PHI)	1.08	1.08	0.74	-0.05	1.13
Grain Size (mm)	0.47	0.48			

Offshore Pensacola, FL (PEH-93-3a)

Locality Type Sample Date Profile Analysis Date Analyz  
Shell Sand 364 cm 7-23-93 10-17-94 TP/RH  
X Position : 30102.56 Y Position : 87113.80  
Elevation of Top of Core : 117'  
Length of Core : 3.77 m  
Depth to Top of Sample : 359 cm  
Depth to Bottom of Sample : 369 cm

Comments : Thuy Bul

Start Weight : 11.248 Final Weight : 11.209 Deviation : 0.0347 %			
PHI	MM	Weight Percent	Cumul Percent
-----	-----	-----	-----
-1.25	2.378	0.000	0.000
-1.00	2.000	0.034	0.303
-0.75	1.602	0.102	0.910
-0.50	1.414	0.231	2.061
-0.25	1.189	0.319	2.846
0.00	1.000	0.489	4.363
0.25	0.841	0.792	7.066
0.50	0.707	0.965	8.609
0.75	0.580	1.341	11.964
1.00	0.500	1.194	15.574
1.25	0.420	1.583	14.123
1.50	0.354	0.939	8.377
			80.194

Sample Content by Weight Percent :

Sample Content by Weight Percent :			
Gravel coarse medium fine silt clay			
Wentworth Classification	0.303	57.391	37.095
Unified Classification	0.000	0.303	71.514

Standard Statistics :

Standard Statistics :			
Median Mean Dev. Skew Kurt			
Method of Moments (PHI)			
Folk Graphic Measures (PHI)	0.90	0.91	0.73
Grain Size (mm)	0.54	0.53	0.16

Method of Moments (PHI)

Folk Graphic Measures (PHI)

Grain Size (mm)

Offshore Pensacola, FL (PEH-93-04)

Locality Type Sample Date Profile Analysis Date Analyz  
Shell Sand 5 cm 7-23-93 3-10-94 SA/RH  
X Position : 30102.07 Y Position : 87105.32  
Elevation of Top of Core : 132'  
Length of Core : 1.46 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 12.548 Final Weight : 12.510 Deviation : 0.303 %			
PHI	MM	Weight Percent	Cumul Percent
-----	-----	-----	-----
-0.25	1.189	0.000	0.000
0.00	1.000	0.006	0.048
0.25	0.841	0.015	0.120
0.50	0.707	0.045	0.360
0.75	0.580	0.116	0.528
1.00	0.500	0.404	3.229
1.25	0.420	1.138	9.097
1.50	0.354	1.536	12.438
1.75	0.297	2.848	22.766
			48.985

Sample Content by Weight Percent :

Sample Content by Weight Percent :			
Gravel coarse medium fine silt clay			
Wentworth Classification	0.000	4.684	75.851
Unified Classification	0.000	0.000	13.781

Standard Statistics :

Standard Statistics :			
Median Mean Dev. Skew Kurt			
Method of Moments (PHI)			
Folk Graphic Measures (PHI)	1.76	1.72	0.44
Grain Size (mm)	0.30	0.30	0.08

Method of Moments (PHI)

Folk Graphic Measures (PHI)

Grain Size (mm)

Method of Moments (PHI)

Folk Graphic Measures (PHI)

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Folk Graphic Measures (PHI)

Grain Size (mm)



Offshore Pensacola, FL (PEN-93-04)

Locality Shelf Type Sand Sample 25 cm Date 7-29-93 Profile Analysis Date 3-3-94 Analyz SA/RH

X Position : 30:02.07 Y Position : 87:05.32

Elevation of Top of Core : 132'  
Length of Core : 1.46 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 13.366 Final Weight : 13.318 Deviation : 0.359 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-1.00	2.000	0.000	0.000	0.000	1.25	0.420	2.868	21.535	68.697
-0.75	1.682	0.025	0.188	0.188	1.50	0.354	1.743	13.088	81.784
-0.50	1.414	0.056	0.420	0.608	1.75	0.297	1.404	10.542	92.326
-0.25	1.189	0.136	1.021	1.629	2.00	0.250	0.864	6.487	98.814
0.00	1.000	0.346	2.598	4.227	2.25	0.210	0.096	0.721	99.534
0.25	0.841	0.739	5.549	9.776	2.50	0.177	0.043	0.323	99.857
0.50	0.707	0.907	6.810	16.587	2.75	0.149	0.012	0.090	99.947
0.75	0.595	1.236	9.281	25.867	3.00	0.125	0.007	0.053	100.000
1.00	0.500	2.836	21.294	47.162					

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	47.162	51.652	1.186	0.000	0.000
Unified Classification	0.000	0.000	68.697	31.303	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.01	0.54	-0.37	3.27
Folk Graphic Measures (PHI)	1.03	1.02	0.54	-0.07	1.16
Grain Size (mm)	0.49	0.50			

Med. sand, med. well sorted,  
slightly coarse skewed, opt. lept.

Offshore Pensacola, FL (PEN-93-04)

Locality Shelf Type Sand Sample 50 cm Date 7-29-93 Profile Analysis Date 3-10-94 Analyz SA/RH

X Position : 30:02.07 Y Position : 87:05.32

Elevation of Top of Core : 132'  
Length of Core : 1.46 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 14.211 Final Weight : 14.145 Deviation : 0.464 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.75	1.682	0.000	0.000	0.000	1.25	0.420	2.745	19.406	81.690
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.249	8.830	90.520
-0.25	1.189	0.382	2.701	2.701	1.75	0.297	0.832	5.882	96.402
0.00	1.000	0.800	5.656	8.356	2.00	0.250	0.447	3.160	99.562
0.25	0.841	1.572	11.113	19.470	2.25	0.210	0.041	0.290	99.852
0.50	0.707	1.260	8.908	28.378	2.50	0.177	0.014	0.099	99.951
0.75	0.595	1.661	11.743	40.120	2.75	0.149	0.004	0.028	99.979
1.00	0.500	3.135	22.163	62.283	3.00	0.125	0.003	0.021	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	62.283	37.278	0.438	0.000	0.000
Unified Classification	0.000	0.000	81.690	18.310	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.80	0.54	-0.14	2.59
Folk Graphic Measures (PHI)	0.86	0.78	0.56	-0.15	0.99
Grain Size (mm)	0.55	0.57			

Coarse sand, med. well sorted,  
coarse-skewed, very lept.

## Offshore Pensacola, FL (PEN-93-04)

Locality Shelf Type Sand Sample 75 cm Date 7-29-93 Profile 132' Elevation of Top of Core : 1.46 m Length of Core : 70 cm Depth to Top of Sample : 70 cm Depth to Bottom of Sample : 80 cm  
X Position : 30102.07 Y Position : 87105.32  
Analysis Date 3-3-94 SA/RM  
Comments : Thuy Bul

Start Weight : 12.928 Final Weight : 12.867 Deviation : 0.473 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-1.25	2.378	0.000	0.000	0.000	0.000	1.25	0.420	1.848	14.362	80.524	
-1.00	2.000	0.152	1.181	1.181	8.801	1.50	0.354	1.065	8.277	88.801	
-0.75	1.682	0.215	1.671	2.852	6.140	1.75	0.297	0.790	6.140	94.941	
-0.50	1.414	0.455	3.536	6.388	3.956	2.00	0.250	0.509	3.956	98.896	
-0.25	1.189	0.662	5.145	11.533	2.25	0.210	0.073	0.567	99.464		
0.00	1.000	1.102	8.565	20.098	2.50	0.177	0.042	0.326	99.790		
0.25	0.841	1.381	10.733	30.831	2.75	0.149	0.017	0.132	99.922		
0.50	0.707	1.146	8.907	39.737	3.00	0.125	0.005	0.039	99.961		
0.75	0.595	1.192	9.264	49.001	3.25	0.105	0.005	0.039	100.000		
1.00	0.500	2.208	17.160	66.161							

Sample Content by Weight Percent :

	Gravel	Sand coarse medium	Silt fine	Clay
Wentworth Classification	1.181	64.980	32.735	1.104
Unified Classification	0.000	1.181	79.343	19.476
				0.000
				0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)	0.65	0.71	-0.21	2.59	
Folk Graphic Measures (PHI)	0.76	0.67	0.73	-0.18	0.93
Grain Size (mm)	0.59	0.64			

Coarse sand, med. sorted,  
coarse-sorted, very lept.

## Offshore Pensacola, FL (PEN-93-04)

Locality Shelf Type Sand Sample 100 cm Date 7-29-93 Profile 132' Elevation of Top of Core : 1.46 m Length of Core : 95 cm Depth to Top of Sample : 95 cm Depth to Bottom of Sample : 105 cm  
X Position : 30102.07 Y Position : 87105.32  
Analysis Date 3-10-94 SA/RM  
Comments : Thuy Bul

Start Weight : 15.274 Final Weight : 15.156 Deviation : 0.773 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-1.00	2.000	0.000	0.000	0.000	0.000	1.00	0.500	2.520	16.627	72.783	
-0.75	1.682	0.560	3.695	3.695	1.25	0.420	1.896	12.510	85.293		
-0.50	1.414	0.280	1.847	5.542	1.50	0.354	0.946	6.242	91.535		
-0.25	1.189	0.951	6.275	11.817	1.75	0.297	0.768	5.067	96.602		
0.00	1.000	1.681	11.091	22.908	2.00	0.250	0.425	2.804	99.406		
0.25	0.841	2.067	13.638	36.547	2.25	0.210	0.055	0.363	99.769		
0.50	0.707	1.392	9.184	45.731	2.50	0.177	0.025	0.165	99.934		
0.75	0.595	1.580	10.425	56.156	2.75	0.149	0.010	0.066	100.000		

Sample Content by Weight Percent :

Gravel	coarse	Sand medium	fine	silt	clay
Wentworth Classification	0.000	72.783	26.623	0.594	0.000
Unified Classification	0.000	0.000	85.293	14.707	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		0.56	0.68	-0.05	2.43
Folk Graphic Measures (PHI)	0.60	0.56	0.69	-0.07	0.91
Grain Size (mm)	0.66	0.68			

Coarse sand, med. well sorted,  
med. - asymmetrical, very lept.

Offshore Pensacola, FL (PEN-93-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 5 cm 7-31-93 1-05-94 TS/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bul

Start Weight : 11.097 Final Weight : 11.051 Deviation : 0.415 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-0.50	1.414	0.000	0.000	0.000	0.000	1.50	0.354	1.775	16.062	49.579	
-0.25	1.159	0.005	0.045	0.045	0.045	1.75	0.257	2.122	19.202	68.781	
0.00	1.000	0.020	0.181	0.226	0.226	2.00	0.250	2.407	21.781	90.562	
0.25	0.841	0.040	0.362	0.588	0.588	2.25	0.210	0.456	4.126	94.688	
0.50	0.707	0.091	0.823	1.412	1.412	2.50	0.177	0.326	2.950	97.638	
0.75	0.558	0.291	2.613	4.045	4.045	2.75	0.149	0.156	1.412	99.050	
1.00	0.500	1.206	10.913	14.958	14.958	3.00	0.125	0.073	0.661	99.710	
1.25	0.420	2.051	18.559	33.517	33.517	3.25	0.105	0.032	0.290	100.000	

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	14.958	75.604	9.438	0.000	0.000	0.000
Unified Classification	0.000	0.000	33.517	66.483	0.000	0.000	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
1.51	1.49	0.47	0.12	3.45

Method of Moments (PHI)  
Folk Graphic Measures (PHI)  
Grain Size (mm)

Median	Mean	Dev.	Skew	Kurt
0.35	1.48	0.46	-0.03	0.90

Offshore Pensacola, FL (PEN-93-04)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 125 cm 7-29-93 3-3-94 SA/RM

X Position : 30:02.07 Y Position : 87:05.32

Elevation of Top of Core : 132'  
Length of Core : 1.46 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bul

Start Weight : 16.076 Final Weight : 15.946 Deviation : 0.809 %

PHI	MM	Weight	Percent	Cumul	Percent	PHI	MM	Weight	Percent	Cumul	Percent
-1.25	2.378	0.000	0.000	0.000	0.000	0.75	0.595	1.377	8.635	83.551	
-1.00	2.000	1.637	10.203	10.203	10.203	1.00	0.500	1.486	9.319	92.870	
-0.75	1.682	0.760	4.766	14.969	14.969	1.25	0.420	0.709	4.446	97.316	
-0.50	1.414	1.425	8.936	23.906	23.906	1.50	0.354	0.235	1.474	98.790	
-0.25	1.189	1.658	10.398	34.303	34.303	1.75	0.297	0.122	0.765	99.555	
0.00	1.000	2.185	13.702	48.006	48.006	2.00	0.250	0.053	0.332	99.887	
0.25	0.841	2.671	16.750	64.756	64.756	2.25	0.210	0.008	0.030	99.937	
0.50	0.707	1.620	10.159	74.915	74.915	2.50	0.177	0.010	0.063	100.000	

Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	10.203	82.666	7.017	0.113	0.000	0.000	0.000
Unified Classification	0.000	10.203	87.113	2.684	0.000	0.000	0.000

Standard Statistics :

Median	Mean	Dev.	Skew	Kurt
0.03	0.02	0.68	0.09	2.46

Method of Moments (PHI)  
Folk Graphic Measures (PHI)  
Grain Size (mm)

Median	Mean	Dev.	Skew	Kurt
0.98	0.71	-0.02	0.94	0.94

Coarse sand, med. well sorted,  
near-symmetrical, very light.

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 25 cm Date 7-11-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.116 Final Weight : 11.060 Deviation : 0.504 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.760	15.913	62.776
-0.25	1.189	0.008	0.072	0.072	1.75	0.297	1.765	15.958	78.734
0.00	1.000	0.033	0.298	0.371	2.00	0.250	1.686	15.244	93.978
0.25	0.841	0.107	0.967	1.338	2.25	0.210	0.270	2.441	96.420
0.50	0.707	0.251	2.269	3.608	2.50	0.177	0.204	1.844	98.264
0.75	0.595	0.582	5.262	8.870	2.75	0.149	0.104	0.940	99.204
1.00	0.500	1.873	16.935	25.805	3.00	0.125	0.056	0.506	99.711
1.25	0.420	2.329	21.058	46.863	3.25	0.105	0.032	0.289	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	25.805	68.174	6.022	0.000	0.000
Unified Classification	0.000	0.000	46.863	53.137	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.33	0.50	0.24	3.49
Folk Graphic Measures (PHI)	1.30	1.33	0.48	0.07	0.90
Grain Size (mm)	0.41	0.40			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 50 cm Date 7-11-93 Profile Analysis Date 1-05-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.237 Final Weight : 11.189 Deviation : 0.427 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.718	15.354	67.736
-0.25	1.189	0.013	0.116	0.116	1.75	0.297	1.678	14.997	82.733
0.00	1.000	0.083	0.742	0.858	2.00	0.250	1.454	12.995	95.728
0.25	0.841	0.230	2.056	2.914	2.25	0.210	0.223	1.993	97.721
0.50	0.707	0.335	2.994	5.908	2.50	0.177	0.147	1.314	99.035
0.75	0.595	0.737	6.587	12.494	2.75	0.149	0.070	0.626	99.660
1.00	0.500	2.093	18.706	31.200	3.00	0.125	0.029	0.259	99.920
1.25	0.420	2.370	21.182	52.382	3.25	0.105	0.009	0.080	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	31.200	64.528	4.272	0.000	0.000
Unified Classification	0.000	0.000	52.382	47.618	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.25	0.50	0.01	3.30
Folk Graphic Measures (PHI)	1.22	1.26	0.48	0.05	0.91
Grain Size (mm)	0.43	0.42			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 75 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.539 Final Weight : 11.509 Deviation : 0.260 g

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.00	0.250	1.163	10.105	96.194
0.25	0.841	0.387	3.363	3.363	2.25	0.210	0.147	1.277	97.472
0.50	0.707	0.523	4.544	7.907	2.50	0.177	0.125	1.086	98.558
0.75	0.595	0.943	8.194	16.100	2.75	0.149	0.078	0.678	99.235
1.00	0.500	2.187	19.003	35.103	3.00	0.125	0.050	0.434	99.670
1.25	0.420	2.306	20.036	55.139	3.25	0.105	0.024	0.209	99.878
1.50	0.354	1.739	15.110	70.249	3.50	0.088	0.005	0.043	99.922
1.75	0.297	1.823	15.840	86.089	3.75	0.074	0.009	0.078	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	35.103	61.091	3.806	0.000	0.000
Unified Classification	0.000	0.000	55.139	44.861	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.21	0.51	0.32	3.72
Folk Graphic Measures (PHI)	1.19	1.22	0.49	0.03	0.94
Grain Size (mm)	0.44	0.43			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 100 cm Date 7-31-93 Profile Analysis Date 1-05-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.134 Final Weight : 11.107 Deviation : 0.243 g

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.502	13.523	69.389
-0.25	1.189	0.011	0.099	0.099	1.75	0.297	1.481	13.334	82.723
0.00	1.000	0.058	0.522	0.621	2.00	0.250	1.358	12.227	94.949
0.25	0.841	0.250	2.251	2.872	2.25	0.210	0.227	2.044	96.993
0.50	0.707	0.423	3.808	6.680	2.50	0.177	0.168	1.513	98.505
0.75	0.595	0.954	8.589	15.270	2.75	0.149	0.095	0.855	99.361
1.00	0.500	2.273	20.465	35.734	3.00	0.125	0.048	0.432	99.793
1.25	0.420	2.216	20.131	55.866	3.25	0.105	0.023	0.207	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	35.734	59.215	5.051	0.000	0.000
Unified Classification	0.000	0.000	55.866	44.134	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.23	0.52	0.26	3.31
Folk Graphic Measures (PHI)	1.18	1.24	0.50	0.10	0.90
Grain Size (mm)	0.44	0.43			

Offshore Pensacola, FL (PEN-93-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 125 cm 7-31-93 1-04-94 TB/RH

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 11.070 Final Weight : 10.995 Deviation : 0.678 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.394	14.497	68.149
-0.25	1.189	0.029	0.264	0.264	1.75	0.297	1.540	14.006	82.156
0.00	1.000	0.040	0.364	0.628	2.00	0.250	1.360	12.369	94.525
0.25	0.841	0.203	1.846	2.474	2.25	0.210	0.220	2.001	96.526
0.50	0.707	0.342	3.111	5.584	2.50	0.177	0.176	1.601	98.126
0.75	0.595	0.818	7.440	13.024	2.75	0.149	0.104	0.946	99.072
1.00	0.500	2.150	19.554	32.578	3.00	0.125	0.064	0.582	99.654
1.25	0.420	2.317	21.073	53.652	3.25	0.105	0.038	0.346	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	32.578	61.946	5.475	0.000	0.000
Unified Classification	0.000	0.000	53.652	46.348	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.26	0.52	0.30	3.63
Folk Graphic Measures (PHI)	1.21	1.26	0.49	0.11	0.92
Grain Size (mm)	0.43	0.42			

Offshore Pensacola, FL (PEN-93-05)

Locality Type Sample Date Profile Analysis Date Analyz  
Shelf Sand 150 cm 7-31-93 1-05-94 TB/RH

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Bui

Start Weight : 11.059 Final Weight : 11.030 Deviation : 0.262 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.489	13.500	72.811
-0.25	1.189	0.026	0.236	0.236	1.75	0.297	1.440	13.055	85.866
0.00	1.000	0.128	1.160	1.396	2.00	0.250	1.189	10.780	96.646
0.25	0.841	0.274	2.484	3.880	2.25	0.210	0.175	1.587	98.232
0.50	0.707	0.458	4.182	8.033	2.50	0.177	0.113	1.024	99.257
0.75	0.595	0.982	8.903	16.936	2.75	0.149	0.050	0.453	99.710
1.00	0.500	2.357	21.369	38.305	3.00	0.125	0.022	0.199	99.909
1.25	0.420	2.317	21.006	59.311	3.25	0.105	0.010	0.091	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	38.305	58.341	3.354	0.000	0.000
Unified Classification	0.000	0.000	59.311	40.689	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.17	0.51	0.06	3.28
Folk Graphic Measures (PHI)	1.14	1.19	0.50	0.08	0.97
Grain Size (mm)	0.45	0.44			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 175 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm

Comments : Thuy Bui

Start Weight : 11.886 Final Weight : 11.847 Deviation : 0.328 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.717	14.493	64.751
-0.25	1.189	0.006	0.051	0.051	1.75	0.297	1.628	13.742	78.492
0.00	1.000	0.100	0.844	0.895	2.00	0.250	1.629	13.750	92.243
0.25	0.841	0.219	1.849	2.743	2.25	0.210	0.282	2.380	94.623
0.50	0.707	0.410	3.461	6.204	2.50	0.177	0.256	2.161	96.784
0.75	0.595	0.788	6.651	12.856	2.75	0.149	0.174	1.469	98.253
1.00	0.500	2.142	18.081	30.936	3.00	0.125	0.118	0.996	99.249
1.25	0.420	2.289	19.321	50.257	3.25	0.105	0.089	0.751	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	30.936	61.307	7.757
Unified Classification	0.000	0.000	50.257	49.743

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.30	0.57	0.37	3.56
Folk Graphic Measures (PHI)	1.25	1.30	0.55	0.13	1.00
Grain Size (mm)	0.42	0.40			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 200 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 195 cm  
Depth to Bottom of Sample : 205 cm

Comments : Thuy Bui

Start Weight : 11.446 Final Weight : 11.299 Deviation : 1.284 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
0.00	1.000	0.000	0.000	0.000	2.00	0.250	0.870	7.700	97.973
0.25	0.841	0.352	3.115	3.115	2.25	0.210	0.101	0.894	98.867
0.50	0.707	0.513	4.540	7.656	2.50	0.177	0.063	0.558	99.425
0.75	0.595	1.080	9.558	17.214	2.75	0.149	0.032	0.283	99.708
1.00	0.500	2.764	24.462	41.676	3.00	0.125	0.018	0.159	99.867
1.25	0.420	2.584	22.869	64.546	3.25	0.105	0.009	0.080	99.947
1.50	0.354	1.550	13.718	78.264	3.50	0.088	0.003	0.027	99.973
1.75	0.297	1.357	12.010	90.273	3.75	0.074	0.003	0.027	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	41.676	56.297	2.027
Unified Classification	0.000	0.000	64.546	35.454

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.13	0.46	0.33	3.67
Folk Graphic Measures (PHI)	1.09	1.14	0.46	0.11	1.04
Grain Size (mm)	0.47	0.46			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 225 cm Date 7-31-93 Profile Analysis Date 1-05-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 220 cm  
Depth to Bottom of Sample : 230 cm

Comments : Thuy Bui

Start Weight : 11.281 Final Weight : 11.249 Deviation : 0.284 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.615	14.357	75.056
-0.25	1.189	0.006	0.053	0.053	1.75	0.297	1.432	12.730	87.786
0.00	1.000	0.116	1.031	1.085	2.00	0.250	1.093	9.716	97.502
0.25	0.841	0.344	3.058	4.143	2.25	0.210	0.139	1.236	98.738
0.50	0.707	0.467	4.151	8.294	2.50	0.177	0.079	0.702	99.440
0.75	0.595	0.987	8.774	17.068	2.75	0.149	0.036	0.320	99.760
1.00	0.500	2.439	21.682	38.750	3.00	0.125	0.015	0.133	99.893
1.25	0.420	2.469	21.949	60.699	3.25	0.105	0.012	0.107	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	38.750	58.752	2.498	0.000	0.000
Unified Classification	0.000	0.000	60.699	39.301	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.15	0.49	0.05	3.30
Folk Graphic Measures (PHI)	1.13	1.17	0.49	0.07	1.02
Grain Size (mm)	0.46	0.45			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 250 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bui

Start Weight : 11.194 Final Weight : 11.164 Deviation : 0.268 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.00	0.250	1.615	14.466	90.093
0.25	0.841	0.196	1.756	1.756	2.25	0.210	0.294	2.633	92.727
0.50	0.707	0.357	3.198	4.953	2.50	0.177	0.295	2.642	95.369
0.75	0.595	0.705	6.315	11.268	2.75	0.149	0.212	1.899	97.268
1.00	0.500	1.841	16.491	27.759	3.00	0.125	0.171	1.532	98.800
1.25	0.420	2.083	18.658	46.417	3.25	0.105	0.090	0.806	99.606
1.50	0.354	1.591	14.251	60.668	3.50	0.088	0.021	0.197	99.803
1.75	0.297	1.670	14.959	75.627	3.75	0.074	0.022	0.197	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	27.759	62.334	9.907	0.000	0.000
Unified Classification	0.000	0.000	46.417	53.583	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.37	0.58	0.59	3.73
Folk Graphic Measures (PHI)	1.31	1.34	0.57	0.13	1.03
Grain Size (mm)	0.40	0.39			



Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 275 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 11.169 Final Weight : 11.135 Deviation : 0.304 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.513	13.588	64.526
-0.25	1.189	0.032	0.287	0.287	1.75	0.297	1.527	13.714	78.240
0.00	1.000	0.087	0.781	1.069	2.00	0.250	1.453	13.049	91.289
0.25	0.841	0.242	2.173	3.242	2.25	0.210	0.271	2.434	93.722
0.50	0.707	0.389	3.493	6.736	2.50	0.177	0.255	2.290	96.013
0.75	0.595	0.740	6.646	13.381	2.75	0.149	0.199	1.787	97.800
1.00	0.500	2.031	18.240	31.621	3.00	0.125	0.139	1.248	99.048
1.25	0.420	2.151	19.317	50.938	3.25	0.105	0.106	0.952	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	31.621	59.668	8.711	0.000	0.000
Unified Classification	0.000	0.000	50.938	49.062	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.11	0.59	0.39	3.59
Folk Graphic Measures (PHI)	1.24	1.29	0.57	0.15	1.06
Grain Size (mm)	0.42	0.40			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 300 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RM

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 11.555 Final Weight : 11.519 Deviation : 0.312 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.00	0.250	1.101	9.558	96.232
0.25	0.841	0.372	3.229	3.229	2.25	0.210	0.158	1.372	97.604
0.50	0.707	0.580	5.035	8.265	2.50	0.177	0.120	1.042	98.646
0.75	0.595	1.111	9.645	17.910	2.75	0.149	0.073	0.634	99.279
1.00	0.500	2.675	23.223	41.132	3.00	0.125	0.047	0.408	99.687
1.25	0.420	2.361	20.497	61.629	3.25	0.105	0.023	0.200	99.887
1.50	0.354	1.505	13.065	74.694	3.50	0.088	0.007	0.061	99.948
1.75	0.297	1.380	11.980	86.674	3.75	0.074	0.006	0.052	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	41.132	55.100	3.768	0.000	0.000
Unified Classification	0.000	0.000	61.629	38.371	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.16	0.51	0.50	3.80
Folk Graphic Measures (PHI)	1.11	1.17	0.50	0.12	0.98
Grain Size (mm)	0.46	0.45			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 325 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RH

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Sui

Start Weight : 11.356 Final Weight : 11.291 Deviation : 0.572 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.636	14.489	65.415
-0.25	1.189	0.043	0.381	0.381	1.75	0.297	1.598	14.153	79.568
0.00	1.000	0.106	0.939	1.320	2.00	0.250	1.510	13.373	92.941
0.25	0.841	0.215	1.904	3.224	2.25	0.210	0.244	2.161	95.102
0.50	0.707	0.357	3.162	6.386	2.50	0.177	0.223	1.975	97.077
0.75	0.595	0.748	6.625	13.010	2.75	0.149	0.154	1.364	98.441
1.00	0.500	2.037	18.041	31.051	3.00	0.125	0.099	0.877	99.318
1.25	0.420	2.244	19.874	50.926	3.25	0.105	0.077	0.682	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	31.051	61.890	7.059	0.000	0.000
Unified Classification	0.000	0.000	50.926	49.074	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.29	0.56	0.27	3.70
Folk Graphic Measures (PHI)	1.24	1.29	0.54	0.11	1.01
Grain Size (mm)	0.42	0.41			

Offshore Pensacola, FL (PEN-93-05)

Locality Shelf Type Sand Sample 350 cm Date 7-31-93 Profile Analysis Date 1-04-94 Analyz TB/RH

X Position : 30:17.47 Y Position : 87:17.73

Elevation of Top of Core : 31'  
Length of Core : 3.70 m  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Sui

Start Weight : 11.275 Final Weight : 11.247 Deviation : 0.248 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.50	1.414	0.000	0.000	0.000	1.50	0.354	1.589	14.128	77.470
-0.25	1.189	0.063	0.560	0.560	1.75	0.297	1.367	12.154	89.624
0.00	1.000	0.271	2.410	2.970	2.00	0.250	1.007	8.953	98.577
0.25	0.841	0.333	2.961	5.930	2.25	0.210	0.089	0.791	99.369
0.50	0.707	0.478	4.250	10.180	2.50	0.177	0.034	0.302	99.671
0.75	0.595	0.963	8.562	18.743	2.75	0.149	0.013	0.116	99.787
1.00	0.500	2.515	22.362	41.104	3.00	0.125	0.009	0.080	99.867
1.25	0.420	2.501	22.237	63.341	3.25	0.105	0.015	0.133	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	41.104	57.473	1.423	0.000	0.000
Unified Classification	0.000	0.000	63.341	36.659	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.11	0.50	-0.21	3.49
Folk Graphic Measures (PHI)	1.10	1.13	0.50	0.02	1.11
Grain Size (mm)	0.47	0.46			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 10 cm Date 7-11-93 Profile Analysis Date 11-2-94 Analyz TH/RM

X Position : 30:19.54 Y Position : 87:14.09

Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 5 cm  
Depth to Bottom of Sample : 15 cm

Comments : Thuy Bui

Start Weight : 3.395 Final Weight : 3.380 Deviation : 0.442 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.201	5.947	20.148
0.25	0.841	0.002	0.059	0.059	2.50	0.177	0.388	11.479	31.627
0.50	0.707	0.000	0.000	0.059	2.75	0.149	0.402	11.893	43.521
0.75	0.595	0.005	0.148	0.207	3.00	0.125	0.431	12.751	56.272
1.00	0.500	0.019	0.562	0.769	3.25	0.105	0.506	14.970	71.243
1.25	0.420	0.049	1.450	2.219	3.50	0.088	0.341	10.089	81.331
1.50	0.354	0.054	1.598	3.817	3.75	0.074	0.348	10.296	91.627
1.75	0.297	0.106	3.136	6.953	4.00	0.063	0.232	6.864	98.491
2.00	0.250	0.245	7.249	14.201	4.25	0.053	0.051	1.509	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.769	13.432	84.290	1.509	0.000
Unified Classification	0.000	0.000	2.219	89.408	8.373	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.82	0.70	-0.42	2.77
Folk Graphic Measures (PHI)	2.88	2.84	0.72	-0.10	0.95
Grain Size (mm)	0.14	0.14			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 25 cm Date 7-11-93 Profile Analysis Date 11-2-94 Analyz TH/RM

X Position : 30:19.54 Y Position : 87:14.09

Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 4.788 Final Weight : 4.756 Deviation : 0.668 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.337	7.086	31.602
0.25	0.841	0.014	0.294	0.294	2.50	0.177	0.609	12.805	44.407
0.50	0.707	0.014	0.294	0.589	2.75	0.149	0.530	11.144	55.551
0.75	0.595	0.027	0.568	1.156	3.00	0.125	0.546	11.480	67.031
1.00	0.500	0.098	2.061	3.217	3.25	0.105	0.576	12.111	79.142
1.25	0.420	0.140	2.944	6.161	3.50	0.088	0.340	7.149	86.291
1.50	0.354	0.145	3.049	9.209	3.75	0.074	0.335	7.044	93.335
1.75	0.297	0.225	4.731	13.940	4.00	0.063	0.254	5.341	98.675
2.00	0.250	0.503	10.576	24.516	4.25	0.053	0.063	1.325	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	3.217	21.299	74.159	1.325	0.000
Unified Classification	0.000	0.000	6.161	87.174	6.665	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.59	0.79	-0.32	2.69
Folk Graphic Measures (PHI)	2.63	2.61	0.81	-0.06	0.96
Grain Size (mm)	0.16	0.17			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 50 cm Date 7-31-93 Profile Analysis Date 11-2-94 Analyz TB/RM

X Position : 30:19.54 Y Position : 87:14.09

Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 6.838 Final Weight : 6.831 Deviation : 0.102 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.547	8.008	32.118
0.25	0.841	0.006	0.088	0.088	2.50	0.177	1.058	15.488	47.606
0.50	0.707	0.009	0.132	0.220	2.75	0.149	0.939	13.746	61.353
0.75	0.595	0.024	0.351	0.571	3.00	0.125	0.917	13.424	74.777
1.00	0.500	0.091	1.332	1.903	3.25	0.105	0.845	12.370	87.147
1.25	0.420	0.177	2.591	4.494	3.50	0.088	0.349	5.109	92.256
1.50	0.354	0.209	3.060	7.554	3.75	0.074	0.284	4.158	96.413
1.75	0.297	0.344	5.036	12.590	4.00	0.063	0.197	2.884	99.297
2.00	0.250	0.787	11.521	24.111	4.25	0.053	0.048	0.703	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.903	22.208	75.187	0.703	0.000
Unified Classification	0.000	0.000	4.494	91.919	3.587	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.52	0.69	-0.22	2.88
Folk Graphic Measures (PHI)	2.54	2.52	0.70	-0.06	1.00
Grain Size (mm)	0.17	0.17			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 75 cm Date 7-31-93 Profile Analysis Date 11-2-94 Analyz TB/RM

X Position : 30:19.54 Y Position : 87:14.09

Elevation of Top of Core : 21'  
Length of Core : 3.95 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 8.788 Final Weight : 8.759 Deviation : 0.330 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.666	7.604	32.778
0.25	0.841	0.003	0.034	0.034	2.50	0.177	1.462	16.691	49.469
0.50	0.707	0.007	0.080	0.114	2.75	0.149	1.326	15.139	64.608
0.75	0.595	0.022	0.251	0.365	3.00	0.125	1.245	14.214	78.822
1.00	0.500	0.130	1.484	1.850	3.25	0.105	1.089	12.433	91.255
1.25	0.420	0.246	2.809	4.658	3.50	0.088	0.365	4.167	95.422
1.50	0.354	0.284	3.242	7.900	3.75	0.074	0.237	2.706	98.128
1.75	0.297	0.435	4.966	12.867	4.00	0.063	0.126	1.439	99.566
2.00	0.250	1.078	12.307	25.174	4.25	0.053	0.038	0.434	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	1.850	23.325	74.392	0.434	0.000
Unified Classification	0.000	0.000	4.658	93.470	1.872	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.47	0.65	-0.28	2.93
Folk Graphic Measures (PHI)	2.51	2.48	0.66	-0.10	0.96
Grain Size (mm)	0.18	0.18			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 100 cm Date 7-31-93 Profile Analysis Date 11-2-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Hui

Start Weight : 6.796 Final Weight : 6.771 Deviation : 0.368 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.494	7.296	29.198
0.25	0.841	0.004	0.059	0.059	2.50	0.177	1.142	16.866	46.064
0.50	0.707	0.008	0.118	0.177	2.75	0.149	1.043	15.404	61.468
0.75	0.595	0.013	0.192	0.369	3.00	0.125	1.036	15.301	76.769
1.00	0.500	0.064	0.945	1.314	3.25	0.105	0.930	13.735	90.504
1.25	0.420	0.151	2.230	3.545	3.50	0.088	0.328	4.844	95.348
1.50	0.354	0.176	2.599	6.144	3.75	0.074	0.181	2.673	98.021
1.75	0.297	0.289	4.268	10.412	4.00	0.063	0.105	1.551	99.572
2.00	0.250	0.778	11.490	21.902	4.25	0.053	0.029	0.428	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.314	20.588	77.669
Unified Classification	0.000	0.000	3.545	94.476

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.52	0.63	-0.34	3.12
Folk Graphic Measures (PHI)	2.56	2.52	0.63	-0.11	0.99
Grain Size (mm)	0.17	0.17			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 125 cm Date 7-31-93 Profile Analysis Date 11-2-94 Analyz TH/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Hui

Start Weight : 7.895 Final Weight : 7.863 Deviation : 0.405 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.00	1.000	0.000	0.000	0.000	2.25	0.210	0.533	6.779	26.669
0.25	0.841	0.001	0.013	0.013	2.50	0.177	1.195	15.198	41.867
0.50	0.707	0.001	0.013	0.025	2.75	0.149	1.205	15.325	57.192
0.75	0.595	0.011	0.140	0.165	3.00	0.125	1.246	15.846	73.038
1.00	0.500	0.075	0.954	1.119	3.25	0.105	1.207	15.350	88.389
1.25	0.420	0.162	2.060	3.179	3.50	0.088	0.465	5.914	94.302
1.50	0.354	0.192	2.442	5.621	3.75	0.074	0.280	3.561	97.863
1.75	0.297	0.314	3.993	9.615	4.00	0.063	0.150	1.908	99.771
2.00	0.250	0.808	10.276	19.891	4.25	0.053	0.018	0.229	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	1.119	18.771	79.880
Unified Classification	0.000	0.000	3.179	94.684

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.58	0.63	-0.38	2.96
Folk Graphic Measures (PHI)	2.63	2.57	0.64	-0.14	1.03
Grain Size (mm)	0.16	0.17			

Offshore Pensacola, FL (PEN-93 6)

Locality Shelf Type Sand Sample 150 cm Date 7 31-93 Profile Analysis Date Analyz 11-2-94 TU/HM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm  
Comments : Thuy Bul

Start Weight : 8.213		Final Weight : 8.184		Deviation : 0.353	
PHI	MM	Weight	Percent	Cumul	Percent
0.25	0.841	0.000	0.000	0.000	42.962
0.50	0.702	0.004	0.049	0.004	57.490
0.75	0.595	0.013	0.232	0.281	72.752
1.00	0.500	0.066	1.806	1.087	84.720
1.25	0.420	0.167	2.041	3.128	97.318
1.50	0.354	0.209	2.554	5.682	98.082
1.75	0.297	0.363	4.435	10.117	99.890
2.00	0.250	0.834	10.191	20.308	100.000
2.25	0.210	0.594	7.258	27.566	

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Wentworth Classification	0.000	1.087	19.220	79.582	0.110	0.000	
Unified Classification	0.000	0.000	3.128	94.954	1.918	0.000	
Standard Statistics :							
				Median	Mean	Dev.	Kurt
Method of Moments (PHI)				2.62	2.57	0.61	2.68
Folk Graphic Measures (PHI)				0.16	0.57	0.64	0.99
Grain Size (mm)					0.17		

Offshore Pensacola, FL (PEN-93 6)

Locality Shelf Type Sand Sample 175 cm Date 7-31-93 Profile Analysis Date Analyz 11-2-94 TU/HM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 170 cm  
Depth to Bottom of Sample : 180 cm  
Comments : Thuy Bul

Start Weight : 6.803		Final Weight : 6.784		Deviation : 0.279	
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.702	0.000	0.000	0.000	48.025
0.75	0.595	0.008	0.118	0.118	58.053
1.00	0.500	0.057	0.838	1.006	73.273
1.25	0.420	0.192	2.830	3.936	85.289
1.50	0.354	0.245	3.611	7.547	92.836
1.75	0.297	0.395	5.823	13.370	97.391
2.00	0.250	0.826	12.176	25.545	99.912
2.25	0.210	0.501	7.385	32.930	100.000

Sample Content by Weight Percent :

Gravel		Sand		Silt		Clay	
coarse		medium		fine			
Wentworth Classification	0.000	1.106	24.440	74.366	0.088	0.000	
Unified Classification	0.000	0.000	3.936	93.455	2.609	0.000	
Standard Statistics :							
				Median	Mean	Dev.	Kurt
Method of Moments (PHI)				2.54	2.52	0.68	2.44
Folk Graphic Measures (PHI)				0.17	2.52	0.70	0.88
Grain Size (mm)					0.17		

## Offshore Pensacola, FL (PEN-93-6)

## Offshore Pensacola, FL (PEN-93-6)

Locality Shelf : 200 cm  
 Type Sand  
 Sample 200 cm  
 Date 7-31-93  
 Profile  
 Analysis Date 11-2-94  
 Analyz TH/MM  
 X Position : 30.19.54  
 Y Position : 87.14.09  
 Elevation of Top of Core : 23'  
 Length of Core : 3.95 m  
 Depth to Top of Sample : 195 cm  
 Depth to Bottom of Sample : 205 cm  
 Comments : Thuy Bui

Start Weight :	10.317	Final Weight :	10.275	Deviation :	0.407 %
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.707	0.000	0.000	0.000	0.000
0.75	0.595	0.003	0.029	0.029	0.029
1.00	0.500	0.010	0.097	0.127	0.127
1.25	0.420	0.038	0.370	0.496	0.496
1.50	0.354	0.048	0.467	0.964	0.964
1.75	0.297	0.095	0.925	1.888	1.888
2.00	0.250	0.391	3.005	5.693	5.693
2.25	0.210	0.461	4.487	10.180	10.180

## Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.127	5.567	94.005	0.302	0.000	0.000
Unified Classification	0.000	0.000	0.496	92.107	7.397	0.000	0.000
Standard Statistics :							
	Median	Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)							
Folk Graphic Measures (PHI)	3.07	2.99	0.58	-0.52	2.87		
Grain Size (mm)	0.12	0.13	0.59	0.17	0.89		

Locality Shelf : 225 cm  
 Type Sand  
 Sample 225 cm  
 Date 7-31-93  
 Profile  
 Analysis Date 11-2-94  
 Analyz TH/MM  
 X Position : 30.19.54  
 Y Position : 87.14.09  
 Elevation of Top of Core : 23'  
 Length of Core : 3.95 m  
 Depth to Top of Sample : 220 cm  
 Depth to Bottom of Sample : 230 cm  
 Comments : Thuy Bui

Start Weight :	5.206	Final Weight :	5.176	Deviation :	0.538 %
PHI	MM	Weight	Percent	Cumul	Percent
0.50	0.707	0.000	0.000	0.000	0.000
0.75	0.595	0.000	0.000	0.000	0.000
1.00	0.500	0.000	0.000	0.000	0.000
1.25	0.420	0.002	0.039	0.039	0.039
1.50	0.354	0.001	0.019	0.058	0.058
1.75	0.297	0.005	0.097	0.154	0.154
2.00	0.250	0.026	0.502	0.657	0.657
2.25	0.210	0.040	0.772	1.429	1.429

## Sample Content by Weight Percent :

	Gravel	coarse	Sand	medium	fine	Silt	Clay
Wentworth Classification	0.000	0.000	0.657	98.552	0.792	0.000	0.000
Unified Classification	0.000	0.000	0.039	88.470	11.491	0.000	0.000
Standard Statistics :							
	Median	Mean	Dev.	Skew	Kurt		
Method of Moments (PHI)							
Folk Graphic Measures (PHI)	3.32	3.29	0.39	-0.74	4.23		
Grain Size (mm)	0.10	0.10	0.39	-0.07	1.09		

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 250 cm Date 7-31-93 Profile Analysis Date 11-2-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 245 cm  
Depth to Bottom of Sample : 255 cm

Comments : Thuy Bui

Start Weight : 4.233 Final Weight : 4.217 Deviation : 0.378 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	0.122	2.893	4.814
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.184	4.363	9.177
1.00	0.500	0.003	0.071	0.071	3.00	0.125	0.351	8.323	17.501
1.25	0.420	0.003	0.071	0.142	3.25	0.105	0.757	17.951	35.452
1.50	0.354	0.004	0.095	0.237	3.50	0.088	0.843	19.991	55.442
1.75	0.297	0.009	0.213	0.451	3.75	0.074	1.032	24.472	79.915
2.00	0.250	0.027	0.640	1.091	4.00	0.063	0.790	18.714	98.648
2.25	0.210	0.035	0.810	1.921	4.25	0.053	0.057	1.352	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.071	1.020	97.558
Unified Classification	0.000	0.000	0.142	79.772

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		3.36	0.45	-1.07	4.82
Folk Graphic Measures (PHI)	3.43	3.40	0.43	-0.20	0.99
Grain Size (mm)	0.09	0.10			

Offshore Pensacola, FL (PEN 93 6)

Locality Shelf Type Sand Sample 275 cm Date 7-31-93 Profile Analysis Date 11-4-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 270 cm  
Depth to Bottom of Sample : 280 cm

Comments : Thuy Bui

Start Weight : 2.988 Final Weight : 2.984 Deviation : 0.134 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
0.50	0.707	0.000	0.000	0.000	2.50	0.177	0.041	1.374	2.078
0.75	0.595	0.000	0.000	0.000	2.75	0.149	0.109	3.653	5.731
1.00	0.500	0.000	0.000	0.000	3.00	0.125	0.289	9.685	15.416
1.25	0.420	0.000	0.000	0.000	3.25	0.105	0.687	23.023	38.438
1.50	0.354	0.000	0.000	0.000	3.50	0.088	0.657	22.017	60.456
1.75	0.297	0.003	0.101	0.101	3.75	0.074	0.605	20.275	80.731
2.00	0.250	0.008	0.268	0.369	4.00	0.063	0.539	18.063	98.794
2.25	0.210	0.010	0.335	0.704	4.25	0.053	0.036	1.206	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	0.000	0.369	98.425
Unified Classification	0.000	0.000	0.000	80.731

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		3.37	0.39	-0.54	3.40
Folk Graphic Measures (PHI)	3.38	3.39	0.39	-0.02	0.69
Grain Size (mm)	0.10	0.10			



Offshore Pensacola, FL (PEN 93 6)

Locality Shelf Type Sand Sample 300 cm Date 7-31-93 Profile Analysis Date 11-4-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 295 cm  
Depth to Bottom of Sample : 305 cm

Comments : Thuy Bui

Start Weight : 5.153 Final Weight : 5.137 Deviation : 0.310 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	0.106	2.063	3.173
1.25	0.420	0.000	0.000	0.000	3.00	0.125	0.467	9.091	12.264
1.50	0.354	0.000	0.000	0.000	3.25	0.105	1.411	27.467	39.731
1.75	0.297	0.001	0.019	0.019	3.50	0.088	1.019	19.836	59.568
2.00	0.250	0.008	0.156	0.175	3.75	0.074	1.141	22.211	81.779
2.25	0.210	0.009	0.175	0.350	4.00	0.063	0.868	16.897	98.676
2.50	0.177	0.039	0.759	1.110	4.25	0.053	0.068	1.324	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.000	0.175	98.501	1.324	0.000
Unified Classification	0.000	0.000	0.000	81.779	18.221	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		3.38	0.36	-0.31	3.04
Folk Graphic Measures (PHI)	3.38	3.40	0.36	0.03	0.84
Grain Size (mm)	0.10	0.10			

Offshore Pensacola, FL (PEN 93 6)

Locality Shelf Type Sand Sample 325 cm Date 7-31-93 Profile Analysis Date 11-4-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 320 cm  
Depth to Bottom of Sample : 330 cm

Comments : Thuy Bui

Start Weight : 3.957 Final Weight : 3.933 Deviation : 0.607 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	0.101	2.619	5.950
1.25	0.420	0.011	0.280	0.280	3.00	0.125	0.452	11.492	17.442
1.50	0.354	0.005	0.127	0.407	3.25	0.105	1.292	32.850	50.292
1.75	0.297	0.009	0.229	0.636	3.50	0.088	0.662	16.832	67.124
2.00	0.250	0.024	0.610	1.246	3.75	0.074	0.734	18.663	85.787
2.25	0.210	0.023	0.585	1.831	4.00	0.063	0.530	13.476	99.263
2.50	0.177	0.059	1.500	3.331	4.25	0.053	0.029	0.737	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	0.000	1.246	98.017	0.737	0.000
Unified Classification	0.000	0.000	0.280	85.507	14.213	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		3.29	0.41	-0.93	5.93
Folk Graphic Measures (PHI)	3.25	3.31	0.38	0.17	0.94
Grain Size (mm)	0.11	0.10			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 350 cm Date 7-31-93 Profile Analysis Date 11-4-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 345 cm  
Depth to Bottom of Sample : 355 cm

Comments : Thuy Bui

Start Weight : 2.876 Final Weight : 2.876 Deviation : 0.000 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	0.073	2.538	5.042
1.25	0.420	0.011	0.382	0.382	3.00	0.125	0.252	8.762	13.804
1.50	0.354	0.003	0.104	0.487	3.25	0.105	0.799	27.782	41.586
1.75	0.297	0.004	0.139	0.626	3.50	0.088	0.569	19.784	61.370
2.00	0.250	0.010	0.348	0.974	3.75	0.074	0.611	21.245	82.615
2.25	0.210	0.012	0.417	1.391	4.00	0.063	0.465	16.168	98.783
2.50	0.177	0.032	1.113	2.503	4.25	0.053	0.035	1.217	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.000	0.974	97.809	1.217	0.000
Unified Classification	0.000	0.000	0.382	82.232	17.385	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		3.35	0.41	-1.11	6.77
Folk Graphic Measure (PHI)	3.36	3.38	0.17	0.04	0.88
Grain Size (mm)	0.10	0.10			

Offshore Pensacola, FL (PEN-93-6)

Locality Shelf Type Sand Sample 389 cm Date 7-31-93 Profile Analysis Date 11-4-94 Analyz TB/RM  
X Position : 30:19.54 Y Position : 87:14.09  
Elevation of Top of Core : 23'  
Length of Core : 3.95 m  
Depth to Top of Sample : 384 cm  
Depth to Bottom of Sample : 394 cm

Comments : Thuy Bui

Start Weight : 4.066 Final Weight : 4.044 Deviation : 0.541 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
1.00	0.500	0.000	0.000	0.000	2.75	0.149	0.137	3.388	5.638
1.25	0.420	0.005	0.124	0.124	3.00	0.125	0.332	8.210	13.848
1.50	0.354	0.003	0.074	0.198	3.25	0.105	0.740	18.299	32.146
1.75	0.297	0.005	0.124	0.321	3.50	0.088	0.706	17.458	49.604
2.00	0.250	0.010	0.247	0.569	3.75	0.074	0.989	24.456	74.060
2.25	0.210	0.013	0.321	0.890	4.00	0.063	0.970	23.986	98.046
2.50	0.177	0.055	1.360	2.250	4.25	0.053	0.079	1.954	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	0.000	0.569	97.478	1.954	0.000
Unified Classification	0.000	0.000	0.124	73.937	25.940	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		3.43	0.41	-0.97	4.77
Folk Graphic Measure (PHI)	3.50	3.46	0.40	-0.21	0.85
Grain Size (mm)	0.09	0.09			

Perdido Bay Area, Fl (Per-93-01)

Locality Shelf Type Sand Sample 5 cm Date 7-31-93 Profile Analysis Date 1-5-94 Analyz TB/RM

X Position : 30:15.16 Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 0 cm  
Depth to Bottom of Sample : 10 cm

Comments : Thuy Bui

Start Weight : 11.132 Final Weight : 11.093 Deviation : 0.350 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.967	17.732	66.970
0.00	1.000	0.073	0.658	0.658	2.00	0.250	2.210	19.922	86.893
0.25	0.841	0.164	1.478	2.136	2.25	0.210	0.611	5.508	92.401
0.50	0.707	0.154	1.388	3.525	2.50	0.177	0.526	4.742	97.142
0.75	0.595	0.318	2.867	6.391	2.75	0.149	0.193	1.740	98.882
1.00	0.500	1.134	10.223	16.614	3.00	0.125	0.085	0.766	99.648
1.25	0.420	1.910	17.218	33.832	3.25	0.105	0.031	0.279	99.928
1.50	0.354	1.709	15.406	49.238	3.50	0.088	0.008	0.072	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	16.614	70.279	13.107	0.000	0.000
Unified Classification	0.000	0.000	33.832	66.168	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.49	0.54	-0.09	3.41
Folk Graphic Measures (PHI)	1.51	1.49	0.51	-0.04	0.99
Grain Size (mm)	0.35	0.36			

Perdido Bay Area, Fl (Per-93-01)

Locality Shelf Type Sand Sample 25 cm Date 7-31-93 Profile Analysis Date 1-5-94 Analyz TB/RM

X Position : 30:15.16 Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 20 cm  
Depth to Bottom of Sample : 30 cm

Comments : Thuy Bui

Start Weight : 11.075 Final Weight : 11.029 Deviation : 0.415 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.968	17.844	65.718
0.00	1.000	0.045	0.408	0.408	2.00	0.250	2.242	20.328	86.046
0.25	0.841	0.094	0.852	1.260	2.25	0.210	0.631	5.721	91.767
0.50	0.707	0.113	1.025	2.285	2.50	0.177	0.587	5.122	97.089
0.75	0.595	0.288	2.611	4.896	2.75	0.149	0.206	1.868	98.957
1.00	0.500	1.185	10.744	15.641	3.00	0.125	0.084	0.762	99.719
1.25	0.420	1.862	16.883	32.523	3.25	0.105	0.026	0.236	99.955
1.50	0.354	1.693	15.350	47.874	3.50	0.088	0.005	0.045	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
		coarse	medium	fine		
Wentworth Classification	0.000	15.641	70.405	13.954	0.000	0.000
Unified Classification	0.000	0.000	32.523	67.477	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.51	0.52	0.01	3.24
Folk Graphic Measures (PHI)	1.53	1.50	0.49	-0.01	0.93
Grain Size (mm)	0.35	0.35			

Perdido Bay Area, Fl (Per-93-01)

Locality Shelf Type Sand Sample 50 cm Date 7-31-93 Profile Analysis Date 1-5-94 Analyz TB/RH

X Position : 30:15.16 Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 45 cm  
Depth to Bottom of Sample : 55 cm

Comments : Thuy Bui

Start Weight : 11.551 Final Weight : 11.511 Deviation : 0.346 g

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.598	13.882	82.721
0.00	1.000	0.129	1.121	1.121	2.00	0.250	1.358	11.797	94.518
0.25	0.841	0.318	2.763	3.883	2.25	0.210	0.288	2.502	97.020
0.50	0.707	0.407	3.536	7.419	2.50	0.177	0.230	1.998	99.018
0.75	0.595	0.733	6.368	13.787	2.75	0.149	0.072	0.625	99.644
1.00	0.500	2.129	18.495	32.282	3.00	0.125	0.029	0.252	99.896
1.25	0.420	2.501	21.727	54.009	3.25	0.105	0.010	0.087	99.983
1.50	0.354	1.707	14.829	68.839	3.50	0.088	0.002	0.017	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	32.282	62.236	5.482
Unified Classification	0.000	0.000	54.009	45.991

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.24	0.52	0.05	3.25
Folk Graphic Measures (PHI)	1.20	1.25	0.51	0.07	0.99
Grain Size (mm)	0.43	0.42			

Perdido Bay Area, Fl (Per-93-01)

Locality Shelf Type Sand Sample 75 cm Date 7-31-93 Profile Analysis Date 1-5-94 Analyz TB/RH

X Position : 30:15.16 Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 70 cm  
Depth to Bottom of Sample : 80 cm

Comments : Thuy Bui

Start Weight : 11.024 Final Weight : 10.964 Deviation : 0.544 g

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.570	14.320	80.545
0.00	1.000	0.137	1.250	1.250	2.00	0.250	1.440	13.134	93.679
0.25	0.841	0.346	3.156	4.405	2.25	0.210	0.315	2.873	96.552
0.50	0.707	0.405	3.694	8.099	2.50	0.177	0.249	2.271	98.823
0.75	0.595	0.731	6.667	14.767	2.75	0.149	0.081	0.739	99.562
1.00	0.500	1.873	17.083	31.850	3.00	0.125	0.030	0.274	99.836
1.25	0.420	2.204	20.102	51.952	3.25	0.105	0.012	0.109	99.945
1.50	0.354	1.565	14.274	66.226	3.50	0.088	0.006	0.055	100.000

Sample Content by Weight Percent :

	Gravel	Sand	Silt	Clay
	coarse	medium	fine	
Wentworth Classification	0.000	31.850	61.830	6.321
Unified Classification	0.000	0.000	51.952	48.048

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.26	0.54	0.01	3.14
Folk Graphic Measures (PHI)	1.23	1.27	0.54	0.05	0.99
Grain Size (mm)	0.43	0.42			

Perdido Bay Area, Fl (Per-93-01)

Locality Shelf Type Sand Sample 100 cm Date 7-31-93 Profile Analysis Date 1-5-94 Analyz TB/RM

X Position : 30:15.16 Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 95 cm  
Depth to Bottom of Sample : 105 cm

Comments : Thuy Bui

Start Weight : 11.233 Final Weight : 11.186 Deviation : 0.418 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.814	16.217	50.715
0.00	1.000	0.089	0.796	0.796	2.00	0.250	2.679	23.950	74.665
0.25	0.841	0.111	0.992	1.788	2.25	0.210	0.877	7.840	82.505
0.50	0.707	0.134	1.198	2.986	2.50	0.177	1.025	9.163	91.668
0.75	0.595	0.213	1.904	4.890	2.75	0.149	0.498	4.452	96.120
1.00	0.500	0.714	6.383	11.273	3.00	0.125	0.261	2.333	98.453
1.25	0.420	1.253	11.202	22.475	3.25	0.105	0.115	1.028	99.481
1.50	0.354	1.345	12.024	34.498	3.50	0.088	0.058	0.519	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	11.273	63.392	25.335	0.000	0.000
Unified Classification	0.000	0.000	22.475	77.525	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.69	0.60	-0.15	3.42
Folk Graphic Measures (PHI)	1.74	1.71	0.59	-0.04	1.12
Grain Size (mm)	0.30	0.31			

Perdido Bay Area, Fl (Per-93-01)

Locality Shelf Type Sand Sample 125 cm Date 7-31-93 Profile Analysis Date 1-5-94 Analyz TB/RM

X Position : 30:15.16 Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 120 cm  
Depth to Bottom of Sample : 130 cm

Comments : Thuy Bui

Start Weight : 11.070 Final Weight : 11.021 Deviation : 0.443 %

PHI	MM	Weight	Percent	Cumul Percent	PHI	MM	Weight	Percent	Cumul Percent
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	1.133	10.280	32.865
0.00	1.000	0.084	0.762	0.762	2.00	0.250	2.360	21.414	54.278
0.25	0.841	0.117	1.062	1.824	2.25	0.210	1.286	11.669	65.947
0.50	0.707	0.132	1.198	3.022	2.50	0.177	1.773	16.087	82.034
0.75	0.595	0.178	1.615	4.637	2.75	0.149	0.996	9.037	91.072
1.00	0.500	0.480	4.355	8.992	3.00	0.125	0.619	5.617	96.688
1.25	0.420	0.742	6.733	15.725	3.25	0.105	0.276	2.504	99.192
1.50	0.354	0.756	6.860	22.584	3.50	0.088	0.089	0.808	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse	medium	fine			
Wentworth Classification	0.000	8.992	45.286	45.722	0.000	0.000
Unified Classification	0.000	0.000	15.725	84.275	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		1.93	0.66	-0.52	3.32
Folk Graphic Measures (PHI)	1.95	1.92	0.65	-0.08	1.06
Grain Size (mm)	0.26	0.26			

Perdido Bay Area, Fl (Per-93-01)

Locality      Type      Sample      Date      Profile      Analysis Date      Analyz  
Shelf      Sand      150 cm      7-31-93           1-5-94      TB/RM

X Position : 30:15.16      Y Position : 87:33.85

Elevation of Top of Core : 27'  
Length of Core : 1.60 m  
Depth to Top of Sample : 145 cm  
Depth to Bottom of Sample : 155 cm

Comments : Thuy Dul

Start Weight : 11.301      Final Weight : 11.227      Deviation : 0.655 %

PHI	MM	Weight	Perct	Cumul Perct	PHI	MM	Weight	Perct	Cumul Perct
-0.25	1.189	0.000	0.000	0.000	1.75	0.297	0.896	7.981	20.281
0.00	1.000	0.008	0.071	0.071	2.00	0.250	2.310	20.575	40.857
0.25	0.841	0.039	0.347	0.419	2.25	0.210	1.439	12.817	53.674
0.50	0.707	0.071	0.632	1.051	2.50	0.177	2.251	20.050	73.724
0.75	0.595	0.081	0.721	1.773	2.75	0.149	1.382	12.310	86.034
1.00	0.500	0.231	2.058	3.830	3.00	0.125	0.918	8.177	94.210
1.25	0.420	0.432	3.848	7.678	3.25	0.105	0.458	4.079	98.290
1.50	0.354	0.519	4.623	12.301	3.50	0.088	0.192	1.710	100.000

Sample Content by Weight Percent :

	Gravel		Sand		Silt	Clay
	coarse		medium	fine		
Wentworth Classification	0.000	3.830	37.027	59.143	0.000	0.000
Unified Classification	0.000	0.000	7.678	92.322	0.000	0.000

Standard Statistics :

	Median	Mean	Dev.	Skew	Kurt
Method of Moments (PHI)		2.14	0.58	-0.47	3.48
Folk Graphic Measures (PHI)	2.18	2.17	0.57	-0.07	1.12
Grain Size (mm)	0.22	0.23			



SEAFLOOR MORPHOLOGY, GEOLOGIC FRAMEWORK, AND SEDIMENTARY  
PROCESSES OF A SAND-RICH SHELF OFFSHORE ALABAMA AND NORTHWEST  
FLORIDA: NORTHEASTERN GULF OF MEXICO

VOLUME II

A Dissertation

Submitted to the Graduate Faculty of the  
Louisiana State University and  
Agricultural and Mechanical College  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

in

The Department of Oceanography and Coastal Sciences

by  
Randolph A. McBride  
B.A., Wittenberg University, 1982  
M.S., Louisiana State University, 1986  
May 1997



**APPENDIX C. SUMMARIZED GRAIN-SIZE STATISTICS BY CORE**

Appendix C tabulates grain size data (median, mean, standard deviation, skewness, and kurtosis) by core. See Appendix A for further explanation regarding organization of data.

ALA – 91 – 1

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
0	2.29	0.20	2.26	0.21	0.57	0.23	3.52
50	2.38	0.19	2.37	0.19	0.54	0.01	3.67
100	2.48	0.18	2.48	0.18	0.68	0.08	3.31
150	2.12	0.23	2.12	0.23	0.62	0.20	2.71
200	2.43	0.19	2.48	0.18	0.65	0.46	3.42
250	2.36	0.19	2.41	0.19	0.37	1.09	6.08
300	2.42	0.19	2.46	0.18	0.52	0.72	5.06

ALA – 91 – 2

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
6	2.37	0.19	2.34	0.20	0.46	-0.92	6.75
25	2.31	0.20	2.24	0.21	0.55	-0.72	5.20
50	2.21	0.22	2.14	0.23	0.57	-0.55	4.78
75	2.26	0.21	2.13	0.23	0.65	-0.78	4.18
100	2.37	0.19	2.32	0.20	0.58	-0.67	4.87
125	2.30	0.20	2.17	0.22	0.69	-0.90	4.02
150	2.36	0.19	2.25	0.21	0.69	-0.87	4.15
175	2.27	0.21	2.04	0.24	0.86	-1.14	4.17
200	2.32	0.20	2.13	0.23	0.78	-0.83	3.19
225	2.14	0.23	1.95	0.26	0.89	-0.66	2.74
250	2.08	0.24	1.96	0.26	0.84	-0.49	2.68
275	2.22	0.21	2.07	0.24	0.85	-0.48	2.71
300	2.15	0.22	2.03	0.25	0.83	-0.47	2.68
325	2.33	0.20	2.20	0.22	0.76	-0.62	3.29
350	1.94	0.26	1.84	0.28	0.88	-0.28	2.43
375	2.22	0.21	2.11	0.23	0.83	-0.39	2.83
400	2.30	0.20	2.17	0.22	0.82	-0.54	2.92

ALA – 91 – 3

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
10	2.23	0.21	2.20	0.22	0.41	0.42	4.54
60	2.26	0.21	2.22	0.21	0.38	0.13	3.40
100	2.30	0.20	2.25	0.21	0.39	-0.19	3.10
110	2.21	0.22	2.23	0.21	0.46	1.34	7.08
160	2.26	0.21	2.23	0.21	0.44	0.86	5.98
195	2.13	0.23	2.13	0.23	0.43	0.15	3.04
205	2.15	0.23	2.14	0.23	0.49	0.44	4.43
290	2.32	0.20	2.32	0.20	0.55	0.42	4.01
300	2.28	0.21	2.25	0.21	0.61	0.60	3.48
350	2.57	0.17	2.60	0.16	0.60	0.51	3.39
395	2.34	0.20	2.40	0.19	0.68	0.61	3.23
405	2.36	0.19	2.41	0.19	0.65	0.64	3.22
435	2.29	0.20	2.31	0.20	0.71	0.45	2.94
445	2.20	0.22	2.22	0.22	0.75	0.39	3.40

ALA – 91 – 9

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.36	0.19	2.36	0.19	0.69	-0.21	3.18
25	2.32	0.20	2.31	0.20	0.67	-0.40	4.52
50	2.17	0.22	2.17	0.22	0.62	-0.32	3.99
75	2.04	0.24	2.08	0.24	0.66	-0.04	3.43
100	2.06	0.24	2.10	0.23	0.68	-0.10	3.39
125	2.09	0.24	2.10	0.23	0.67	-0.24	3.52
150	2.01	0.25	2.07	0.24	0.69	-0.06	3.33
175	1.84	0.28	1.81	0.28	0.73	0.18	2.55
200	1.90	0.27	1.86	0.27	0.84	0.00	2.71
225	1.92	0.26	1.89	0.27	0.83	-0.05	2.93
250	1.94	0.26	1.91	0.27	0.76	-0.16	3.15
275	1.89	0.27	1.81	0.28	0.74	0.02	2.48
300	2.10	0.23	2.02	0.25	0.82	0.05	2.62
325	2.59	0.17	2.64	0.16	0.64	-0.13	4.31
350	2.64	0.16	2.66	0.16	0.69	-0.30	3.57
375	2.62	0.16	2.64	0.16	0.54	-0.42	5.67
400	2.76	0.15	2.75	0.15	0.59	-0.54	5.09

ALA-91-12

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (phi)	Deviation (phi)	Skewness	Kurtosis
5	2.01	0.25	2.00	0.25	0.51	-0.77	4.08
25	2.17	0.22	2.13	0.23	0.48	-1.17	7.02
50	2.12	0.23	2.07	0.24	0.56	-1.47	7.15
75	2.07	0.24	1.99	0.25	0.65	-1.54	6.84
100	2.02	0.25	2.04	0.24	0.49	-0.83	5.36
125	2.01	0.25	2.01	0.25	0.51	-0.77	4.29
150	2.05	0.24	1.99	0.25	0.63	-1.66	7.50
175	2.08	0.24	2.04	0.24	0.53	-1.25	6.34
200	1.98	0.25	1.96	0.26	0.57	-1.05	4.99
225	1.99	0.25	1.96	0.26	0.57	-1.01	4.77
250	2.05	0.24	2.00	0.25	0.60	-1.51	7.29
275	2.05	0.24	1.99	0.25	0.59	-1.55	6.90
300	2.04	0.24	2.02	0.25	0.54	-1.04	5.22
325	2.04	0.24	1.97	0.26	0.63	-1.50	6.33
350	2.01	0.25	2.01	0.25	0.51	-0.63	3.66
375	1.97	0.26	1.82	0.28	0.82	-1.61	5.67
400	2.06	0.24	2.02	0.25	0.54	-0.99	5.00

ALA-91-13

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.88	0.14	2.67	0.14	0.41	-0.08	4.39
25	2.83	0.14	2.83	0.14	0.42	-0.07	4.12
50	2.78	0.15	2.78	0.15	0.41	-0.12	4.45
75	2.79	0.14	2.80	0.14	0.42	0.03	4.73
100	2.79	0.14	2.78	0.15	0.40	-0.22	4.51
125	2.79	0.14	2.78	0.15	0.44	-0.35	4.79
150	2.75	0.15	2.75	0.15	0.43	-0.33	4.61
175	2.70	0.15	2.71	0.15	0.41	-0.16	4.05
200	2.58	0.17	2.59	0.17	0.47	0.00	5.08
225	2.50	0.18	2.53	0.17	0.48	-0.10	4.54
250	2.57	0.17	2.58	0.17	0.47	-0.02	4.49
275	2.43	0.19	2.39	0.19	0.58	-0.47	4.16
300	2.34	0.20	2.16	0.22	0.80	-0.48	2.84

ALA -91 -14

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.02	0.25	2.09	0.23	0.53	0.39	4.89
25	1.98	0.25	2.05	0.24	0.50	-0.23	4.04
50	2.02	0.25	2.10	0.23	0.53	0.41	4.97
75	1.98	0.26	2.04	0.24	0.53	0.39	5.19
100	1.92	0.26	1.97	0.25	0.54	0.10	5.32
125	1.93	0.26	2.00	0.25	0.55	0.31	5.25
150	1.91	0.27	1.95	0.26	0.57	0.04	5.29
175	1.97	0.26	2.00	0.25	0.63	-0.38	5.04
200	2.08	0.24	2.02	0.25	0.64	-0.83	4.79
225	2.11	0.23	2.05	0.24	0.70	-0.69	4.59
250	2.15	0.23	2.15	0.23	0.57	-0.12	5.33
275	1.97	0.26	2.06	0.24	0.56	0.15	4.20
300	1.31	0.40	1.36	0.39	0.47	1.10	5.77
325	1.64	0.26	1.89	0.27	0.44	0.71	4.99
350	1.27	0.41	1.26	0.42	0.33	0.65	6.43



ALA – 91 – 15

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.24	0.21	2.18	0.22	0.41	-0.79	5.90
25	2.33	0.20	2.29	0.20	0.41	-0.78	6.33
50	2.33	0.20	2.29	0.20	0.41	-0.81	5.44
75	2.30	0.20	2.25	0.21	0.42	-0.75	5.54
100	2.29	0.20	2.24	0.21	0.40	-0.63	5.12
125	2.27	0.21	2.22	0.22	0.38	-0.50	4.94
150	2.31	0.20	2.26	0.21	0.40	-0.64	5.78
175	2.30	0.20	2.25	0.21	0.40	-0.49	5.86

ALA -- 91 -- 16

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.43	0.19	2.47	0.18	0.48	0.97	6.05
25	2.31	0.20	2.31	0.20	0.46	0.79	6.29
50	2.31	0.20	2.31	0.20	0.46	0.71	6.07
75	2.34	0.20	2.34	0.20	0.48	0.68	5.91
100	2.35	0.20	2.36	0.20	0.48	0.78	6.72
125	2.30	0.20	2.29	0.20	0.46	0.61	5.86
150	2.30	0.20	2.28	0.21	0.47	0.57	5.83
175	2.28	0.21	2.23	0.21	0.50	0.32	4.90
200	2.28	0.21	2.27	0.21	0.48	0.58	5.70
225	2.28	0.21	2.26	0.21	0.49	0.51	5.83
250	2.27	0.21	2.24	0.21	0.49	0.47	5.88
275	2.27	0.21	2.25	0.21	0.52	0.46	5.58
300	2.32	0.20	2.31	0.20	0.53	0.50	5.65
318	2.23	0.21	2.15	0.23	0.62	-1.36	6.82
323	2.27	0.21	2.16	0.22	0.67	-1.33	6.49
325	2.33	0.20	2.34	0.20	0.57	-0.70	6.06
328	2.31	0.20	2.23	0.21	0.68	-1.35	6.92
333	2.27	0.21	2.16	0.22	0.70	-1.43	6.33
338	2.27	0.20	2.30	0.20	0.60	-1.05	7.17
343	2.31	0.20	2.25	0.21	0.55	-1.27	7.54
348	2.31	0.20	2.29	0.20	0.57	-0.66	6.63
353	2.54	0.17	2.56	0.17	0.71	-0.64	5.80
358	2.51	0.18	2.57	0.17	0.63	0.16	4.94

ALA-93-1

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.66	0.16	2.66	0.16	0.55	0.00	3.92
25	2.66	0.16	2.64	0.16	0.58	-0.16	4.37
50	2.64	0.16	2.62	0.16	0.63	-0.17	4.04
75	2.66	0.16	2.64	0.16	0.59	-0.67	5.76
100	2.67	0.16	2.61	0.16	0.74	-0.78	5.00
125	2.72	0.15	2.64	0.16	0.62	-0.92	4.86
150	2.77	0.15	2.72	0.15	0.61	-0.49	3.89
175	2.72	0.15	2.64	0.16	0.61	-1.15	5.77

PEN-91-1

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	--	--	--	--	--	--	--
25	1.84	0.28	1.69	0.31	0.77	-1.34	5.94
50	1.74	0.30	1.65	0.32	0.49	-0.58	4.90
75	1.74	0.30	1.63	0.32	0.53	-0.87	5.73
100	1.79	0.29	1.72	0.30	0.46	-0.79	6.63
125	1.76	0.30	1.70	0.31	0.45	-1.27	10.67
150	1.73	0.30	1.67	0.31	0.44	-0.08	4.17
175	1.68	0.31	1.62	0.32	0.44	-0.20	4.45
200	1.63	0.32	1.53	0.35	0.55	-0.68	5.21
225	1.62	0.32	1.56	0.34	0.47	-0.50	4.17
250	1.59	0.33	1.53	0.35	0.48	-0.44	4.23
275	1.64	0.32	1.57	0.34	0.50	-0.64	5.40
300	1.61	0.33	1.53	0.35	0.53	-0.62	4.73
325	1.47	0.36	1.41	0.36	0.42	-0.69	4.86
350	1.53	0.35	1.44	0.37	0.47	-1.08	6.68
375	1.52	0.35	1.41	0.36	0.55	-1.41	7.40
400	1.52	0.35	1.46	0.36	0.43	-0.16	4.54
425	1.51	0.35	1.43	0.37	0.41	-0.49	2.93
450	1.57	0.34	1.49	0.36	0.41	-0.54	3.85
475	1.59	0.33	1.51	0.35	0.44	-0.48	4.49
500	1.76	0.29	1.71	0.31	0.59	-0.16	4.42

PEN –91 –2

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.79	0.29	1.68	0.31	0.61	-0.22	3.55
25	1.79	0.29	1.71	0.31	0.69	-0.23	2.75
50	1.85	0.28	1.72	0.30	0.80	-0.74	3.95
75	1.77	0.29	1.59	0.33	0.85	-0.66	3.54
100	1.76	0.30	1.59	0.33	0.83	-0.64	3.59
125	1.63	0.32	1.50	0.35	0.83	-0.48	3.35
150	1.47	0.36	1.38	0.38	0.82	-0.47	2.97
175	1.54	0.34	1.46	0.38	0.81	-0.34	3.18
200	1.31	0.40	1.32	0.40	0.84	-0.15	2.96
225	1.32	0.40	1.34	0.40	0.76	-0.07	2.36
250	1.47	0.36	1.44	0.37	0.79	0.08	3.07
275	1.22	0.43	1.32	0.40	0.82	0.20	2.18
300	1.45	0.37	1.27	0.42	1.16	-0.16	2.28
325	1.76	0.30	1.65	0.32	0.97	0.11	3.05
350	1.66	0.27	1.75	0.30	0.97	-0.02	3.03
375	1.63	0.28	1.77	0.29	1.00	0.29	3.37

PEN – 91 – 3

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.13	0.46	1.14	0.45	0.81	-0.34	3.92
25	1.12	0.46	1.10	0.47	0.73	-0.43	3.44
50	1.32	0.40	1.29	0.41	0.71	-0.35	3.31
75	1.02	0.49	1.03	0.49	0.65	-0.12	2.99
100	1.15	0.45	1.14	0.45	0.67	-0.46	3.97
125	1.24	0.42	1.27	0.41	0.81	-0.21	3.50
150	1.04	0.49	1.03	0.49	0.75	-0.32	3.43
175	0.93	0.53	0.91	0.53	0.76	-0.26	3.43
200	0.92	0.53	0.91	0.53	0.80	-0.16	2.92
225	0.97	0.51	0.99	0.50	0.72	0.02	2.96
250	1.07	0.48	1.07	0.48	0.74	-0.16	2.64
275	1.01	0.50	0.96	0.51	0.83	-0.37	3.07
300	0.92	0.53	0.92	0.53	0.77	-0.05	2.79
325	0.96	0.51	0.89	0.54	0.93	-0.36	2.67
350	1.30	0.41	1.19	0.44	0.93	-0.68	3.26
365	1.49	0.35	1.42	0.37	0.70	-0.28	2.65
370	1.30	0.41	1.22	0.43	0.88	-0.91	4.30
375	1.41	0.38	1.33	0.40	0.76	-0.33	2.68
380	1.32	0.40	1.29	0.41	0.75	-0.18	2.45
385	1.59	0.33	1.49	0.36	0.69	-0.30	2.76

PEN-91-4

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
0	2.87	0.14	2.87	0.14	0.43	0.02	4.14
5	2.21	0.22	1.89	0.27	1.12	-0.62	2.44
25	2.17	0.22	1.99	0.25	0.92	-0.69	3.04
50	2.48	0.18	2.37	0.19	0.66	-1.06	4.59
75	2.54	0.17	2.50	0.18	0.55	-0.74	4.36
100	2.55	0.17	2.53	0.17	0.50	-1.16	6.58
125	2.81	0.14	2.78	0.15	0.47	-1.01	6.92
150	2.91	0.13	2.76	0.15	0.73	-1.29	5.74
175	2.85	0.14	2.82	0.14	0.48	-0.40	5.40
200	2.98	0.13	2.96	0.13	0.46	-0.48	5.44
225	2.93	0.13	2.81	0.13	0.44	-0.40	6.65
238	2.45	0.18	2.35	0.20	0.78	-0.23	2.77

PEN – 91 – 5

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.32	0.40	1.29	0.41	0.52	0.43	5.30
25	1.11	0.46	1.12	0.46	0.57	–0.11	3.47
50	1.07	0.48	1.09	0.47	0.59	–0.07	3.32
75	1.05	0.48	1.08	0.47	0.56	0.05	3.64
100	1.07	0.48	1.09	0.47	0.57	–0.08	3.44
125	1.03	0.49	1.05	0.48	0.55	0.00	3.44
150	1.08	0.47	1.10	0.47	0.57	–0.12	3.17
175	0.99	0.50	1.00	0.50	0.59	–0.11	2.98
195	1.01	0.50	1.03	0.49	0.58	–0.11	3.30
205	1.07	0.48	1.09	0.47	0.60	–0.02	3.36
225	1.00	0.50	1.01	0.50	0.62	–0.07	3.14
250	0.89	0.54	0.87	0.55	0.60	–0.18	2.84
275	0.98	0.52	0.96	0.51	0.61	–0.13	2.79
300	0.90	0.54	0.86	0.55	0.65	–0.27	2.77
325	0.96	0.51	0.95	0.52	0.69	–0.10	2.75
350	0.96	0.51	0.98	0.51	0.59	–0.01	3.00
375	1.07	0.48	1.08	0.47	0.65	0.07	3.57
400	1.00	0.50	1.01	0.50	0.56	–0.19	3.07
425	1.02	0.49	1.03	0.49	0.60	–0.09	2.92
450	0.94	0.52	0.95	0.52	0.59	0.13	3.31



PEN – 91 – 6

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.83	0.28	1.93	0.26	0.84	0.88	3.62
25	1.59	0.33	1.60	0.33	0.72	0.74	4.03
50	1.56	0.34	1.59	0.33	0.69	0.78	4.13
75	1.67	0.31	1.65	0.32	0.67	0.59	3.94
100	1.63	0.32	1.62	0.32	0.68	0.50	3.41
125	1.54	0.34	1.54	0.34	0.66	0.37	3.03
150	1.69	0.31	1.64	0.32	0.71	0.27	2.82
175	1.82	0.28	1.79	0.29	0.69	0.31	3.34
200	1.61	0.33	1.58	0.33	0.64	0.32	3.06
400	1.63	0.32	1.60	0.33	0.71	0.49	3.55
425	1.09	0.47	1.19	0.44	0.73	0.65	3.88
450	1.59	0.33	1.56	0.34	0.72	0.30	3.62
475	1.58	0.34	1.58	0.33	0.93	0.50	3.35
500	1.55	0.34	1.56	0.34	0.88	0.54	3.53
525	1.20	0.44	1.24	0.42	0.74	0.24	3.00
550	1.02	0.49	1.03	0.49	0.95	0.10	2.68

PEN – 91 – 7

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.76	0.30	1.70	0.31	0.49	0.17	3.47
25	1.72	0.30	1.66	0.32	0.49	0.01	3.61

PEN – 91 – 8

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
10	1.76	0.30	1.72	0.30	0.55	--	2.52
50	1.76	0.29	1.70	0.31	0.63	-0.31	3.21
100	1.72	0.30	1.69	0.31	0.53	0.19	2.76
160	1.67	0.31	1.65	0.32	0.59	0.03	2.72
215	1.69	0.31	1.58	0.33	0.73	-0.60	3.05
245	1.74	0.30	1.63	0.32	0.71	-0.54	3.03
270	1.68	0.31	1.57	0.34	0.74	-0.52	2.86

PEN – 91 – 9

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	--	--	--	--	--	--	--
25	1.70	0.31	1.87	0.31	0.54	0.16	2.92
50	1.77	0.29	1.75	0.30	0.55	0.27	3.10
75	1.77	0.29	1.74	0.30	0.54	0.16	2.99
100	1.77	0.29	1.75	0.30	0.54	0.24	3.17
125	1.59	0.33	1.59	0.33	0.55	0.29	2.90
150	1.52	0.35	1.51	0.35	0.52	0.27	2.98
175	1.67	0.31	1.64	0.32	0.55	0.11	2.71
200	1.71	0.31	1.69	0.31	0.55	0.33	3.32
225	1.70	0.31	1.68	0.32	0.52	0.09	2.93
250	1.55	0.34	1.54	0.34	0.50	0.16	2.81
275	1.69	0.31	1.66	0.32	0.55	0.13	2.87
300	1.62	0.32	1.62	0.33	0.57	0.36	3.19

PEN-91-11

Depth (cm)	Median (phl)	Median (mm)	Mean (phl)	Mean (mm)	Deviation (phl)	Skewness	Kurtosis
5	2.15	0.23	2.14	0.23	0.53	0.07	3.84
25	2.21	0.22	2.18	0.22	0.51	0.01	4.34
50	2.11	0.23	2.11	0.23	0.47	-0.06	3.50
75	2.08	0.24	2.08	0.24	0.53	-0.15	4.27
100	1.93	0.26	1.92	0.26	0.53	-0.29	3.36
125	2.00	0.25	2.02	0.25	0.55	-0.19	3.81
150	1.99	0.25	2.02	0.25	0.53	-0.21	3.80
175	1.98	0.25	1.98	0.25	0.57	-0.22	3.57
200	1.91	0.27	1.90	0.27	0.58	-0.21	3.87
225	1.97	0.25	1.99	0.25	0.58	-0.14	3.73
250	1.86	0.26	1.78	0.29	0.64	-0.65	3.53
275	1.94	0.26	1.92	0.26	0.60	-0.26	3.53
300	1.95	0.26	1.92	0.26	0.63	-0.53	3.83
325	1.93	0.26	1.91	0.27	0.60	-0.30	3.45
350	2.22	0.21	2.18	0.22	0.58	-0.32	5.97
380	2.45	0.18	2.40	0.19	0.53	-0.28	4.58

PEN – 91 – 12

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
25	2.09	0.24	2.07	0.24	0.44	-0.50	4.17
50	2.06	0.24	2.05	0.24	0.46	-0.59	4.01
75	2.11	0.23	2.09	0.24	0.44	-0.51	4.22
100	2.16	0.22	2.14	0.23	0.42	-0.49	4.33
112	2.06	0.24	2.06	0.24	0.46	-0.22	3.89
125	2.12	0.23	2.10	0.23	0.44	-0.50	4.15
136	1.99	0.25	1.99	0.25	0.48	-0.43	3.83
150	2.05	0.24	2.03	0.24	0.44	-0.67	4.01
160	2.04	0.24	2.02	0.25	0.49	-0.20	3.96
175	2.00	0.25	2.01	0.25	0.48	-0.55	3.75
184	2.02	0.25	2.03	0.25	0.49	-0.39	3.85
200	2.02	0.25	2.09	0.24	0.49	-0.52	4.00
225	1.97	0.25	1.97	0.25	0.50	-0.49	3.95
250	1.99	0.25	1.99	0.25	0.49	-0.66	3.82
275	1.94	0.26	1.94	0.26	0.50	-0.48	3.23
300	2.03	0.25	2.01	0.25	0.49	-0.61	3.65
325	2.00	0.25	1.98	0.25	0.49	-0.69	3.59
350	2.06	0.24	2.03	0.25	0.51	-0.59	3.90
375	2.13	0.23	2.07	0.24	0.49	-0.76	4.32
400	2.16	0.22	2.10	0.23	0.50	-0.82	4.33

PEN – 91 – 13							
Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.91	0.27	1.88	0.27	0.51	-0.69	4.28
25	1.90	0.27	1.89	0.27	0.47	-0.45	3.78
50	1.88	0.27	1.84	0.28	0.50	-0.57	3.64
75	1.91	0.27	1.89	0.27	0.48	-0.66	4.21
100	1.86	0.28	1.81	0.29	0.49	-0.52	3.59
125	1.92	0.26	1.92	0.26	0.46	-0.47	3.84
150	1.90	0.27	1.87	0.27	0.49	-0.56	3.72
175	1.83	0.28	1.77	0.29	0.51	-0.53	3.36
200	1.88	0.27	1.85	0.28	0.49	-0.49	3.52
225	1.87	0.27	1.81	0.29	0.56	-0.55	3.44
250	2.01	0.25	2.01	0.25	0.49	-0.69	4.39
275	2.05	0.24	2.01	0.25	0.55	-0.91	5.08
300	1.95	0.26	1.91	0.27	0.57	-0.76	4.09
350	2.25	0.21	2.15	0.23	0.51	-1.33	7.06
363	2.26	0.21	2.17	0.22	0.47	-1.27	6.76
368	2.19	0.22	2.11	0.23	0.49	-1.30	6.89
369	2.25	0.21	2.16	0.22	0.47	-1.26	6.39
373	2.17	0.22	2.12	0.23	0.44	-0.71	4.40
375	2.26	0.21	2.18	0.22	0.45	-0.65	5.32
377	2.17	0.22	2.11	0.23	0.49	-1.04	5.29
378	2.18	0.22	2.12	0.23	0.48	-0.98	6.13
383	2.30	0.20	2.23	0.21	0.42	-1.13	6.61
385	2.25	0.21	2.15	0.22	0.50	-1.23	6.43
387	2.26	0.21	2.21	0.22	0.48	-1.17	6.33
388	2.23	0.21	2.14	0.23	0.45	-1.24	7.16
393	2.52	0.17	2.43	0.18	0.47	-1.31	6.98
394	2.29	0.20	2.21	0.22	0.44	-0.63	5.52

PEN-92-1

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.31	0.20	2.26	0.21	0.61	-0.11	3.46
25	2.42	0.19	2.41	0.19	0.58	-0.04	3.66
50	2.35	0.20	2.30	0.20	0.63	-0.13	3.51
75	2.32	0.20	2.28	0.21	0.57	-0.28	3.70
100	2.25	0.21	2.20	0.22	0.61	-0.20	3.51
125	2.22	0.21	2.16	0.22	0.61	-0.31	3.33
150	2.16	0.22	2.14	0.23	0.61	-0.17	3.27
175	2.08	0.24	2.08	0.24	0.64	0.04	3.49
200	2.12	0.23	2.08	0.24	0.65	-0.22	3.10
225	2.15	0.23	2.11	0.23	0.64	-0.15	3.21
250	2.14	0.23	2.12	0.23	0.63	-0.06	3.23
275	2.28	0.21	2.21	0.22	0.58	-0.15	3.35
300	2.04	0.24	2.05	0.24	0.62	-0.09	3.14
325	2.38	0.19	2.41	0.19	0.85	0.19	2.95
350	2.50	0.16	2.53	0.17	0.71	0.14	3.54
375	2.43	0.19	2.40	0.19	0.63	-0.11	3.85
400	2.43	0.19	2.39	0.19	0.54	-0.35	3.71
425	2.33	0.20	2.23	0.21	0.66	-0.4	2.99
450	2.29	0.20	2.16	0.22	0.73	-0.53	3.04
460	2.05	0.24	1.87	0.27	0.90	-0.47	2.37
470	1.79	0.29	1.65	0.32	0.98	-0.19	2.05
475	1.26	0.42	1.37	0.39	1.11	0.14	1.63



PEN --92--2

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.90	0.27	1.87	0.27	0.63	-0.35	3.22
25	1.99	0.25	1.99	0.25	0.58	-0.40	3.42
50	2.08	0.24	2.07	0.24	0.57	-0.3	3.40
75	1.98	0.26	1.95	0.26	0.61	-0.39	3.24
100	1.98	0.25	1.98	0.25	0.59	-0.33	3.18
125	1.99	0.25	1.99	0.25	0.60	-0.39	3.38
150	1.95	0.26	1.93	0.26	0.60	-0.43	3.41
175	2.03	0.24	2.04	0.24	0.54	-0.32	3.58
200	1.92	0.26	1.91	0.27	0.58	-0.39	3.46
225	2.02	0.25	2.03	0.25	0.55	-0.39	3.93
250	1.99	0.25	2.01	0.25	0.56	-0.27	3.54
275	1.97	0.26	1.74	0.26	0.64	-1.05	5.31
325	2.07	0.24	2.07	0.24	0.55	-0.29	3.35
350	1.97	0.26	1.97	0.25	0.58	-0.39	3.50
375	1.98	0.25	1.98	0.26	0.66	-0.61	3.72
400	1.98	0.25	1.95	0.26	0.66	-0.61	3.69
425	1.99	0.25	2.00	0.25	0.60	-0.31	3.32

PEN – 92 – 3

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.81	0.14	2.76	0.15	0.46	-0.93	5.88
25	2.66	0.16	2.62	0.16	0.46	-0.34	3.43
50	2.55	0.17	2.52	0.17	0.52	-0.32	3.33
75	2.28	0.21	2.29	0.21	0.58	0.03	2.78
100	1.96	0.26	2.03	0.25	0.70	0.10	2.33
125	1.79	0.29	1.81	0.29	0.81	0.21	2.29
150	1.80	0.29	1.76	0.30	0.86	-0.11	2.43
175	1.21	0.43	1.33	0.40	0.93	0.21	2.61
200	1.15	0.45	1.24	0.42	0.94	0.20	2.55

PEN --92--4

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.04	0.24	2.08	0.24	0.43	-0.14	4.26
25	2.05	0.24	2.08	0.24	0.54	-0.39	5.32
50	1.97	0.26	2.02	0.25	0.50	-0.21	5.03
75	1.97	0.26	2.02	0.25	0.50	-0.04	4.29
100	1.95	0.26	2.00	0.25	0.51	-0.09	4.42
125	1.89	0.27	1.92	0.27	0.50	-0.03	4.08
150	1.86	0.28	1.87	0.27	0.53	0.05	3.49
175	1.80	0.29	1.81	0.28	0.51	0.09	3.47
200	1.82	0.28	1.79	0.29	0.58	0.04	3.09
225	1.79	0.29	1.75	0.30	0.57	-0.08	3.23
250	1.75	0.30	1.68	0.31	0.64	-0.12	2.78
275	1.60	0.33	1.51	0.35	0.75	-0.10	2.53
300	1.94	0.26	1.91	0.27	0.69	-0.28	2.79

PEN - 92 - 5							
Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.81	0.14	2.71	0.15	0.67	-0.98	4.92
25	2.79	0.14	2.65	0.16	0.90	-0.65	3.60
50	3.39	0.10	3.26	0.10	0.82	-1.34	5.42
75	3.12	0.12	3.00	0.13	0.92	-0.77	3.82
100	2.92	0.13	2.64	0.16	1.05	-0.71	2.98
125	2.50	0.18	2.37	0.19	0.85	-0.68	3.20
150	2.65	0.16	2.64	0.16	0.58	-0.58	4.93

PEN --92 -- 6

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.69	0.16	2.66	0.16	0.44	-3.12	18.13
25	2.34	0.20	2.31	0.20	0.41	-1.34	9.65
50	1.99	0.25	2.06	0.24	0.48	-0.65	5.95
75	1.92	0.26	2.01	0.25	0.49	0.04	3.64
100	1.85	0.28	1.91	0.27	0.56	0.08	3.17
125	1.74	0.30	1.76	0.29	0.56	0.11	3.07
150	1.69	0.31	1.73	0.30	0.64	0.16	2.69
175	1.63	0.32	1.65	0.32	0.71	0.08	2.53
200	1.57	0.34	1.59	0.33	0.76	0.18	2.27

PEN – 92 – 7

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness (phi)	Kurtosis (phi)
5	1.92	0.26	1.92	0.26	0.51	-1.05	6.27
25	1.91	0.27	1.88	0.27	0.56	-1.27	6.22
50	1.92	0.26	1.93	0.26	0.51	-0.82	5.54
75	1.91	0.27	1.90	0.27	0.52	-0.93	5.61
100	1.91	0.27	1.90	0.27	0.51	-0.81	5.08
125	1.91	0.27	1.91	0.27	0.48	-0.39	3.85
150	1.88	0.27	1.81	0.29	0.56	-0.65	4.10
175	1.63	0.32	1.55	0.34	0.67	-0.12	2.57

PEN – 93 – 1

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	2.51	0.18	2.47	0.18	0.61	-0.49	3.82
25	2.35	0.20	2.29	0.20	0.63	-0.31	3.72
50	2.27	0.21	2.19	0.22	0.61	-0.26	3.36
75	2.18	0.22	2.12	0.23	0.63	-0.23	3.18
100	2.02	0.25	2.05	0.24	0.62	-0.17	2.99
125	2.09	0.23	2.09	0.24	0.64	-0.24	2.98
150	2.03	0.25	2.06	0.24	0.63	-0.18	2.90
175	1.98	0.26	1.99	0.25	0.69	-0.11	2.58
200	1.94	0.26	1.96	0.26	0.73	-0.03	2.75
225	2.21	0.22	2.14	0.23	0.71	-0.26	2.87
250	2.15	0.23	2.11	0.23	0.70	-0.27	2.90
275	2.12	0.23	2.10	0.23	0.71	-0.17	2.58
300	1.96	0.26	1.97	0.26	0.75	-0.17	2.71
325	1.92	0.26	1.92	0.26	0.74	-0.10	2.57
350	1.90	0.27	1.90	0.27	0.72	-0.09	2.49
375	1.99	0.25	2.01	0.25	0.72	-0.19	2.79
400	1.88	0.28	1.84	0.28	0.77	-0.03	2.46
425	1.90	0.27	1.89	0.27	0.74	-0.13	2.61
450	2.35	0.20	2.28	0.21	0.64	-0.29	3.30
475	2.36	0.19	2.28	0.21	0.66	-0.35	3.29
500	2.41	0.19	2.35	0.20	0.63	-0.42	3.55
525	2.31	0.20	2.23	0.21	0.70	-0.26	2.37

PEN – 93 – 2

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
10	2.21	0.22	2.19	0.22	0.65	0.13	3.92
25	2.08	0.24	2.05	0.24	0.61	-0.25	3.90
50	2.03	0.25	2.00	0.25	0.63	-0.36	3.64
75	2.01	0.25	1.99	0.25	0.64	-0.26	3.51
100	2.04	0.24	2.01	0.25	0.65	-0.33	3.64
125	2.07	0.24	2.04	0.24	0.64	-0.28	3.61
150	2.06	0.24	2.03	0.25	0.64	-0.25	3.61
175	1.94	0.26	1.88	0.27	0.67	-0.36	3.20
200	1.89	0.27	1.81	0.29	0.71	-0.37	2.83
225	1.88	0.27	1.75	0.30	0.81	-0.39	2.77
250	1.71	0.31	1.55	0.34	0.88	-0.18	2.37
275	1.61	0.29	1.62	0.33	0.90	-0.43	2.70
300	1.58	0.33	1.34	0.39	1.10	-0.36	2.25
325	1.24	0.42	1.17	0.44	1.14	-0.37	2.34
350	1.75	0.30	1.28	0.41	1.31	-0.58	2.26
368	2.04	0.24	1.70	0.31	1.20	-1.24	3.85



PEN – 93 – 3a

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.89	0.27	1.93	0.26	0.60	0.36	3.47
25	1.35	0.39	1.40	0.38	0.55	0.66	4.47
50	1.33	0.40	1.38	0.38	0.52	0.68	4.69
75	1.39	0.38	1.44	0.37	0.55	0.74	4.63
100	1.20	0.43	1.26	0.42	0.59	0.48	4.02
125	1.28	0.41	1.34	0.40	0.59	0.49	4.28
150	1.27	0.42	1.33	0.40	0.60	0.65	4.78
175	1.31	0.40	1.38	0.38	0.61	0.87	5.03
200	1.25	0.42	1.34	0.40	0.65	0.78	4.80
225	1.23	0.43	1.29	0.41	0.64	0.50	4.27
250	1.16	0.45	1.20	0.44	0.67	0.22	3.87
275	1.20	0.44	1.26	0.42	0.64	0.51	4.37
300	1.18	0.44	1.21	0.43	0.68	0.10	3.84
325	1.11	0.46	1.13	0.46	0.71	0.07	3.50
350	1.08	0.47	1.07	0.48	0.74	-0.13	3.55
384	0.90	0.54	0.91	0.53	0.73	0.16	3.78

PEN – 93 – 4

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.76	0.30	1.73	0.30	0.44	0.07	4.05
25	1.03	0.49	1.01	0.50	0.54	-0.37	3.27
50	0.66	0.55	0.60	0.57	0.54	-0.14	2.59
75	0.76	0.59	0.65	0.64	0.71	-0.21	2.59
100	0.60	0.66	0.56	0.68	0.68	-0.05	2.43
125	0.03	0.96	0.02	0.99	0.68	0.09	2.46

PEN – 93 – 5

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.51	0.35	1.49	0.36	0.47	0.12	3.45
25	1.30	0.41	1.33	0.40	0.50	0.24	3.49
50	1.22	0.43	1.25	0.42	0.50	0.01	3.30
75	1.19	0.44	1.21	0.43	0.51	0.32	3.72
100	1.16	0.44	1.23	0.43	0.52	0.26	3.31
125	1.21	0.43	1.26	0.42	0.52	0.30	3.63
150	1.14	0.45	1.17	0.44	0.51	0.06	3.28
175	1.25	0.42	1.30	0.40	0.57	0.37	3.56
200	1.09	0.47	1.13	0.46	0.46	0.33	3.67
225	1.13	0.46	1.15	0.45	0.49	0.05	3.30
250	1.31	0.40	1.37	0.39	0.59	0.59	3.73
275	1.24	0.42	1.31	0.40	0.59	0.39	3.59
300	1.11	0.46	1.16	0.45	0.51	0.50	3.60
325	1.24	0.42	1.29	0.41	0.56	0.27	3.70
350	1.10	0.47	1.11	0.46	0.50	-0.21	3.49

PEN – 93 – 6

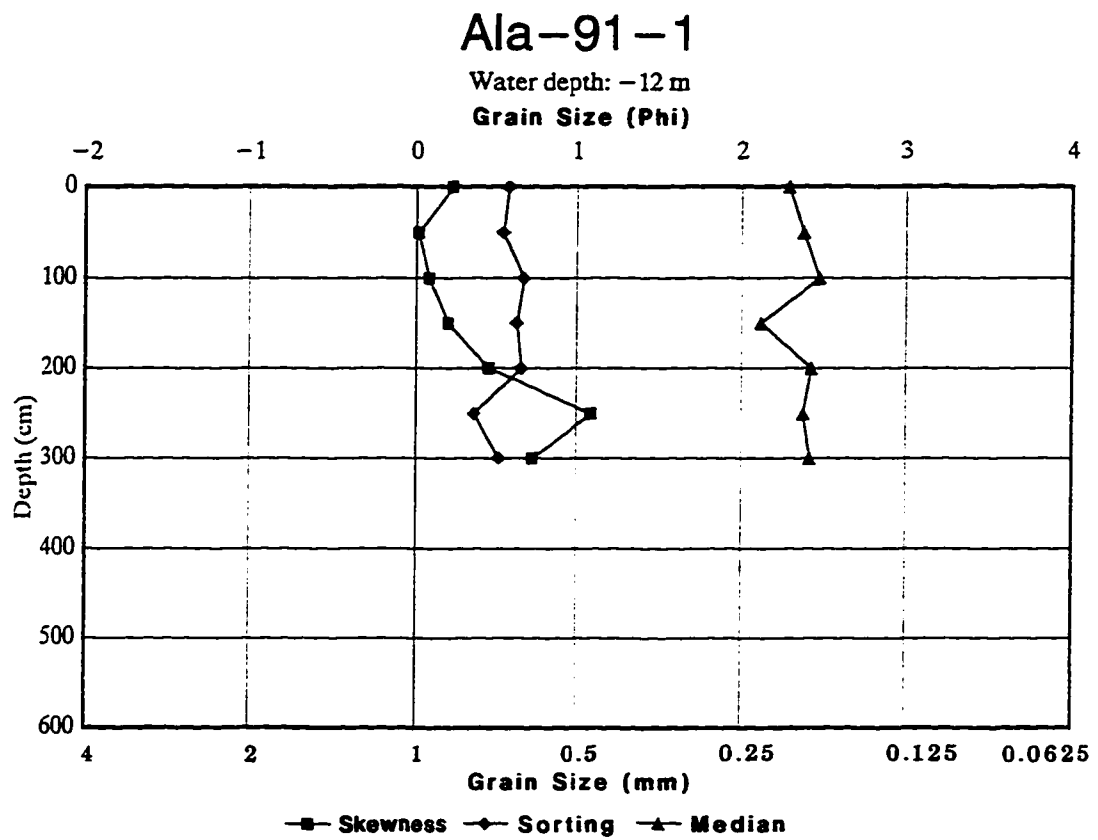
Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
10	2.88	0.14	2.82	0.14	0.70	-0.42	2.77
25	2.63	0.16	2.59	0.17	0.79	-0.32	2.69
50	2.54	0.17	2.52	0.17	0.69	-0.22	2.66
75	2.51	0.18	2.47	0.18	0.65	-0.28	2.93
100	2.56	0.17	2.52	0.17	0.63	-0.34	3.12
125	2.63	0.16	2.58	0.17	0.63	-0.38	2.96
150	2.62	0.16	2.57	0.17	0.63	-0.37	2.88
175	2.54	0.17	2.52	0.17	0.68	-0.18	2.44
200	3.07	0.12	2.99	0.13	0.58	-0.52	2.87
225	3.32	0.10	3.29	0.10	0.39	-0.74	4.23
250	3.43	0.09	3.36	0.10	0.45	-1.07	4.82
275	3.38	0.10	3.37	0.10	0.39	-0.54	3.40
300	3.38	0.10	3.38	0.10	0.36	-0.31	3.04
325	3.25	0.11	3.29	0.10	0.41	-0.93	5.93
350	3.36	0.10	3.35	0.10	0.41	-1.11	6.77
389	3.50	0.09	3.43	0.09	0.41	-0.97	4.77

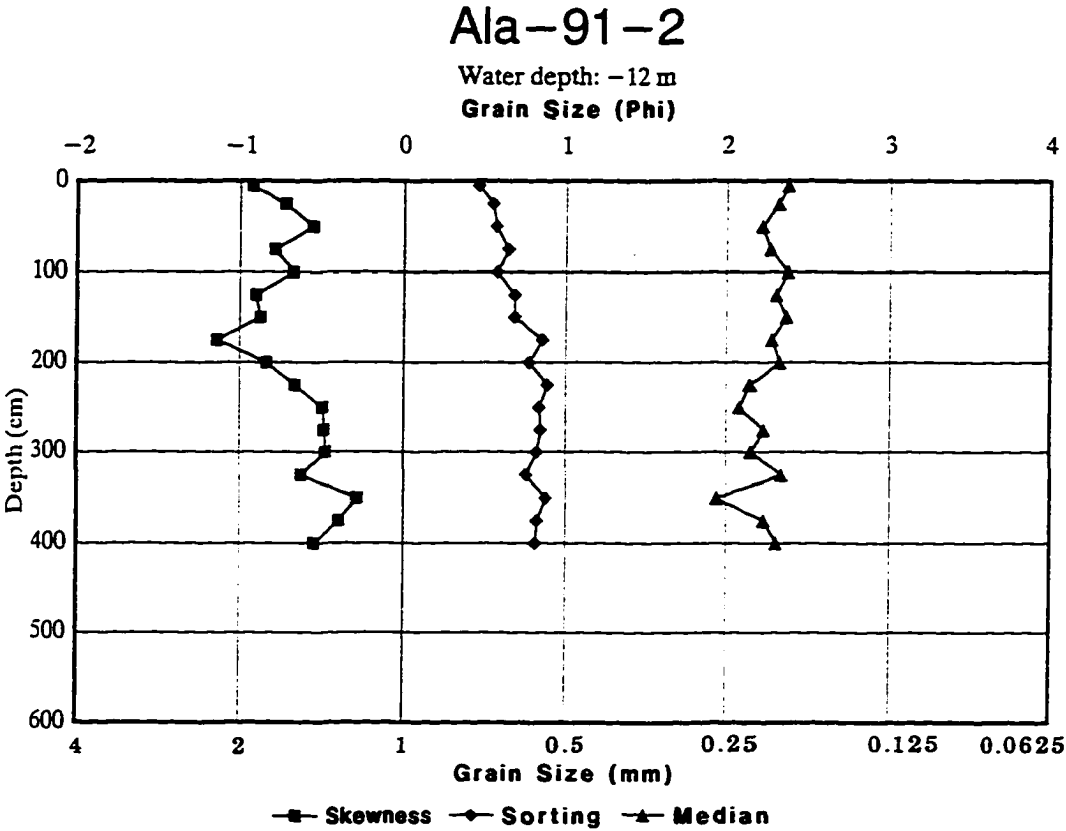
PER-93-1

Depth (cm)	Median (phi)	Median (mm)	Mean (phi)	Mean (mm)	Deviation (phi)	Skewness	Kurtosis
5	1.51	0.35	1.49	0.36	0.54	-0.09	3.41
25	1.53	0.35	1.51	0.35	0.52	0.01	3.24
50	1.20	0.43	1.24	0.42	0.52	0.05	3.25
75	1.23	0.43	1.26	0.42	0.54	0.01	3.14
100	1.74	0.30	1.69	0.31	0.60	-0.15	3.42
125	1.95	0.26	1.93	0.26	0.66	-0.52	3.32
150	2.18	0.22	2.40	0.23	0.58	-0.47	3.46

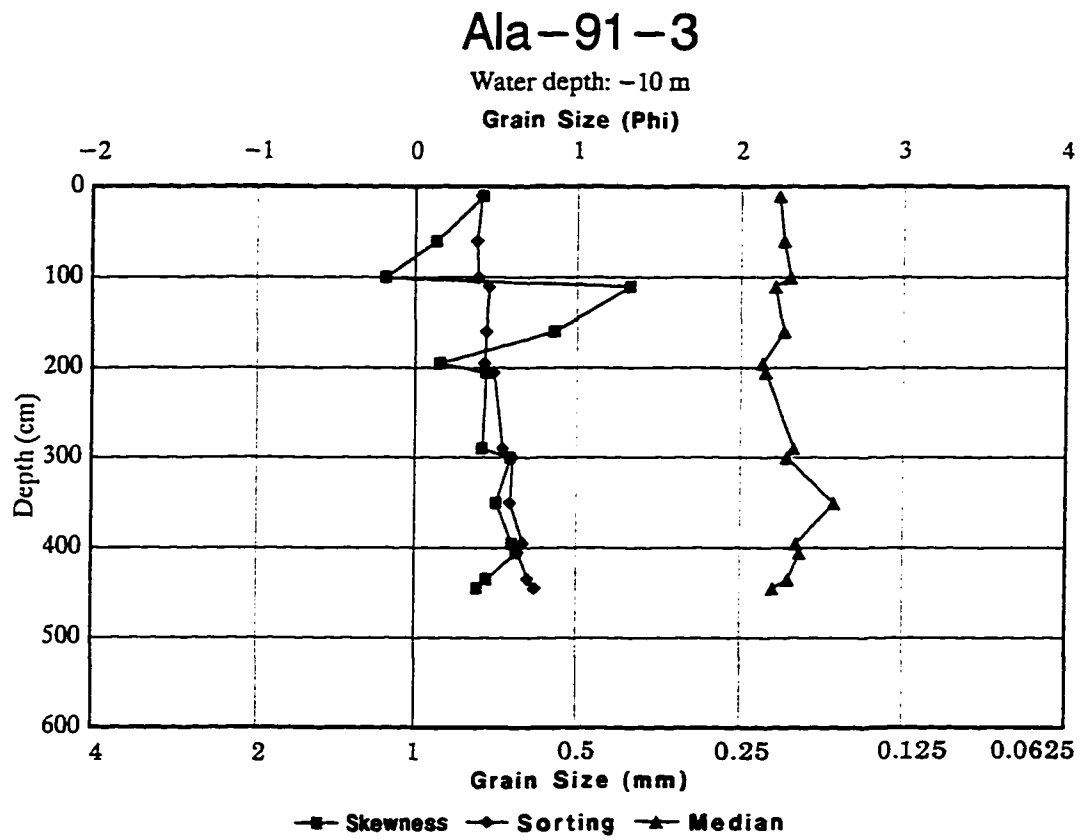
## **APPENDIX D. PLOTS OF GRAIN-SIZE TRENDS BY CORE**

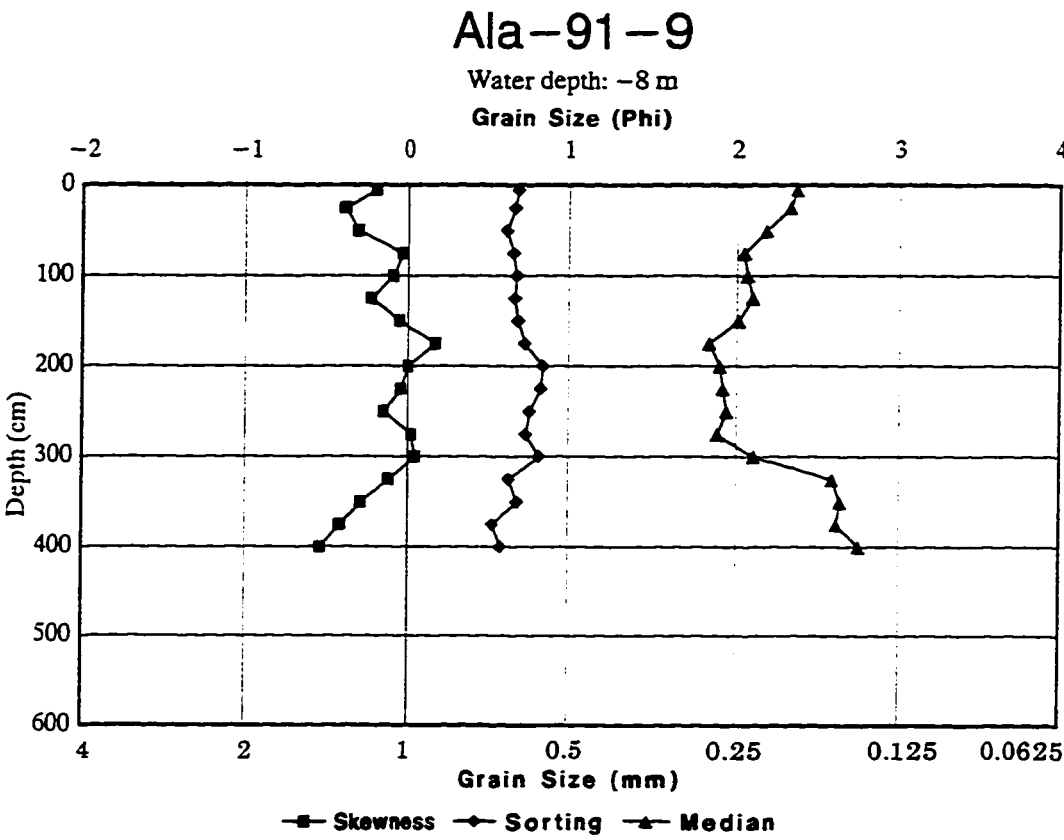
Appendix D includes plots of median, sorting, and skewness by core. See Appendix A for further explanation regarding organization of data.

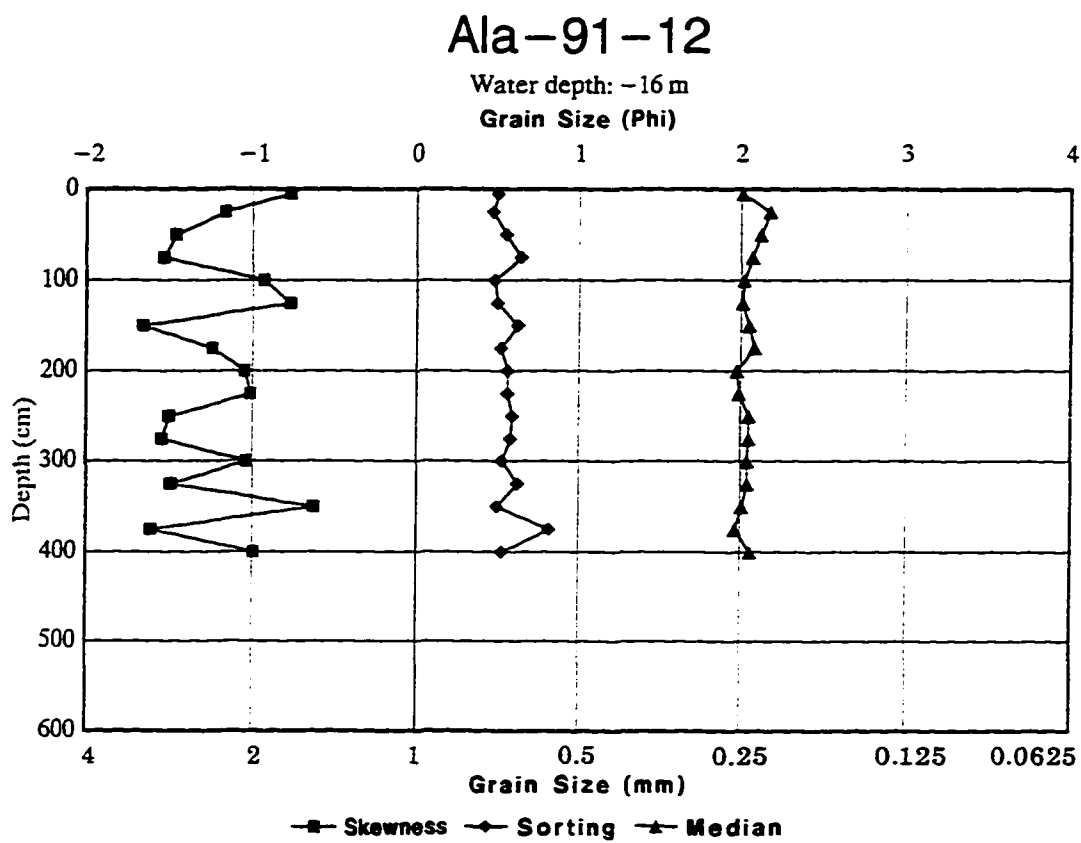


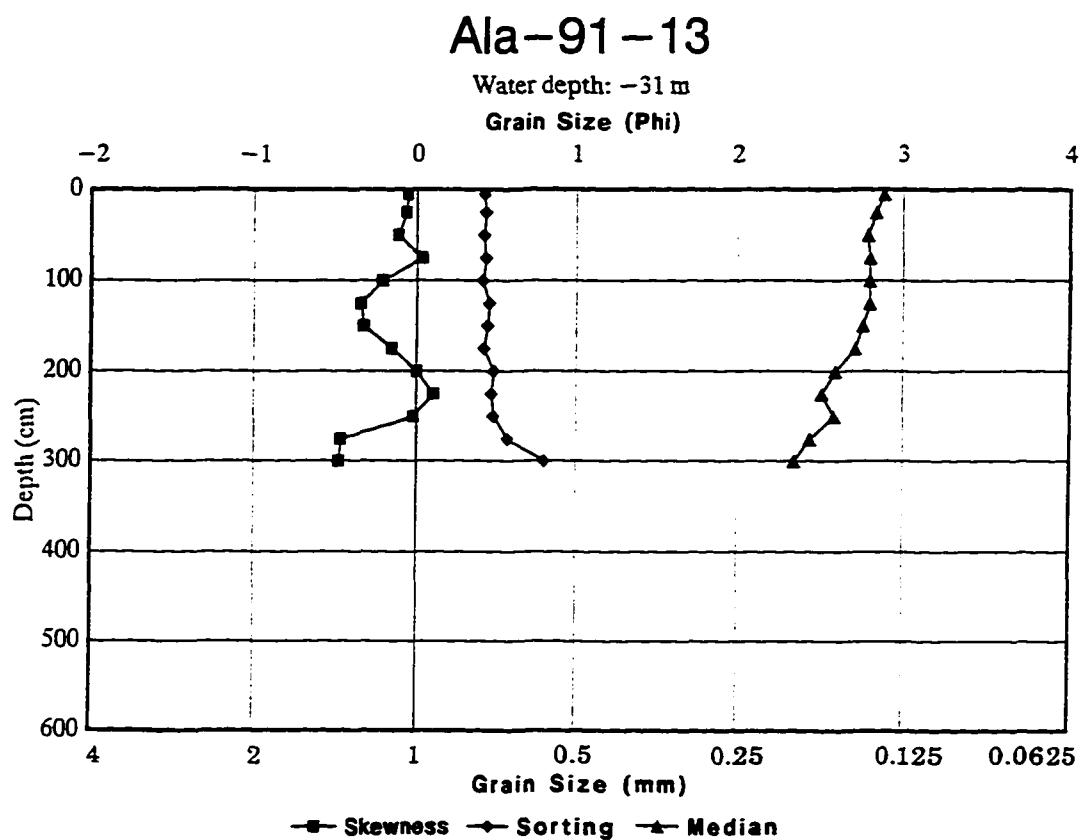


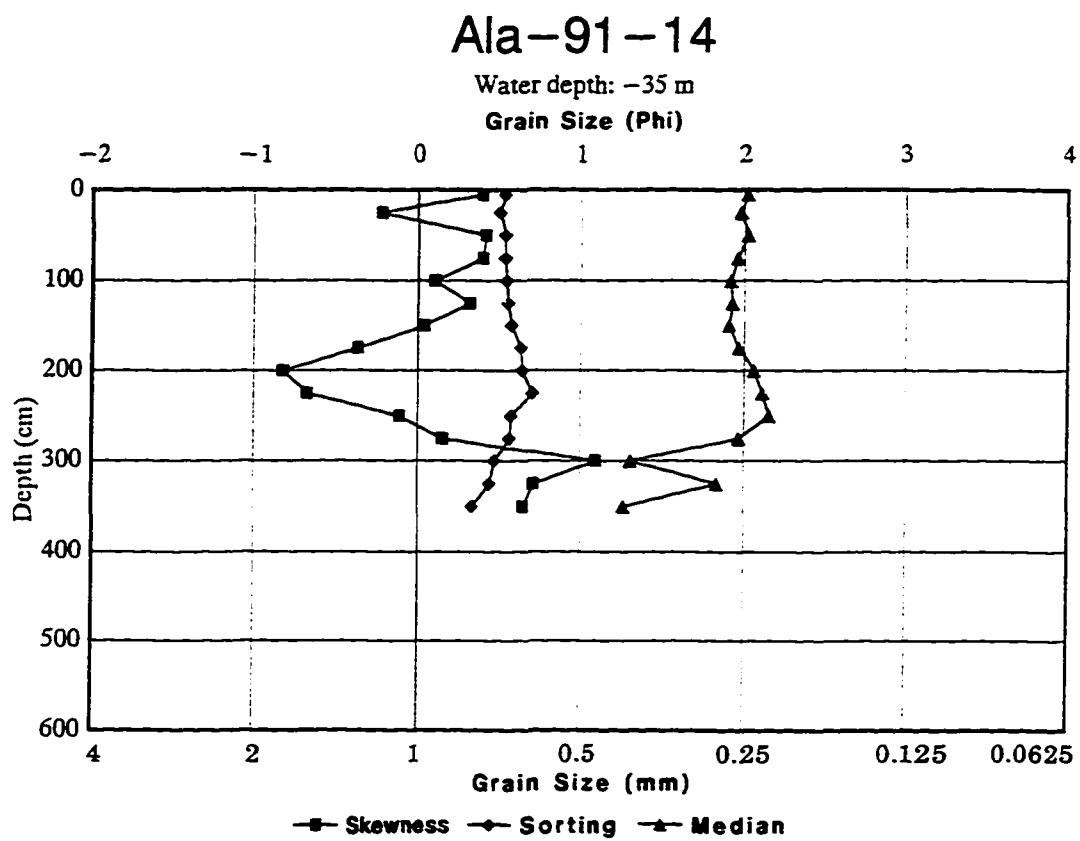


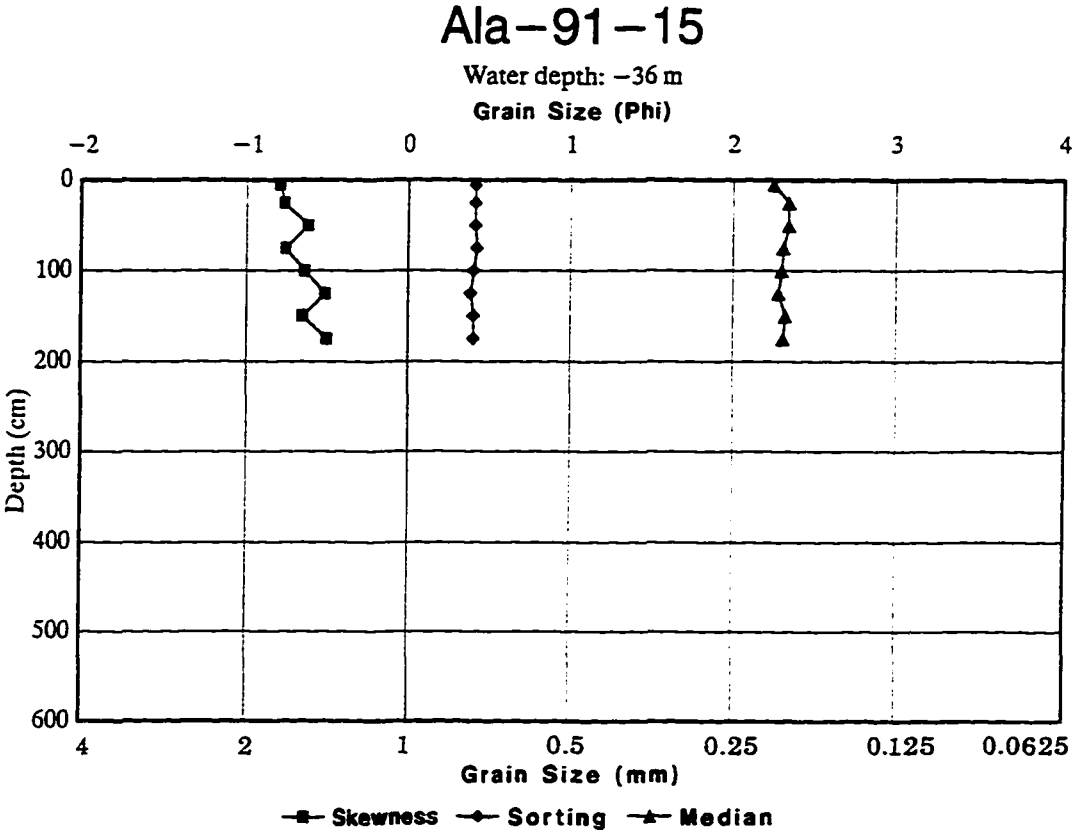












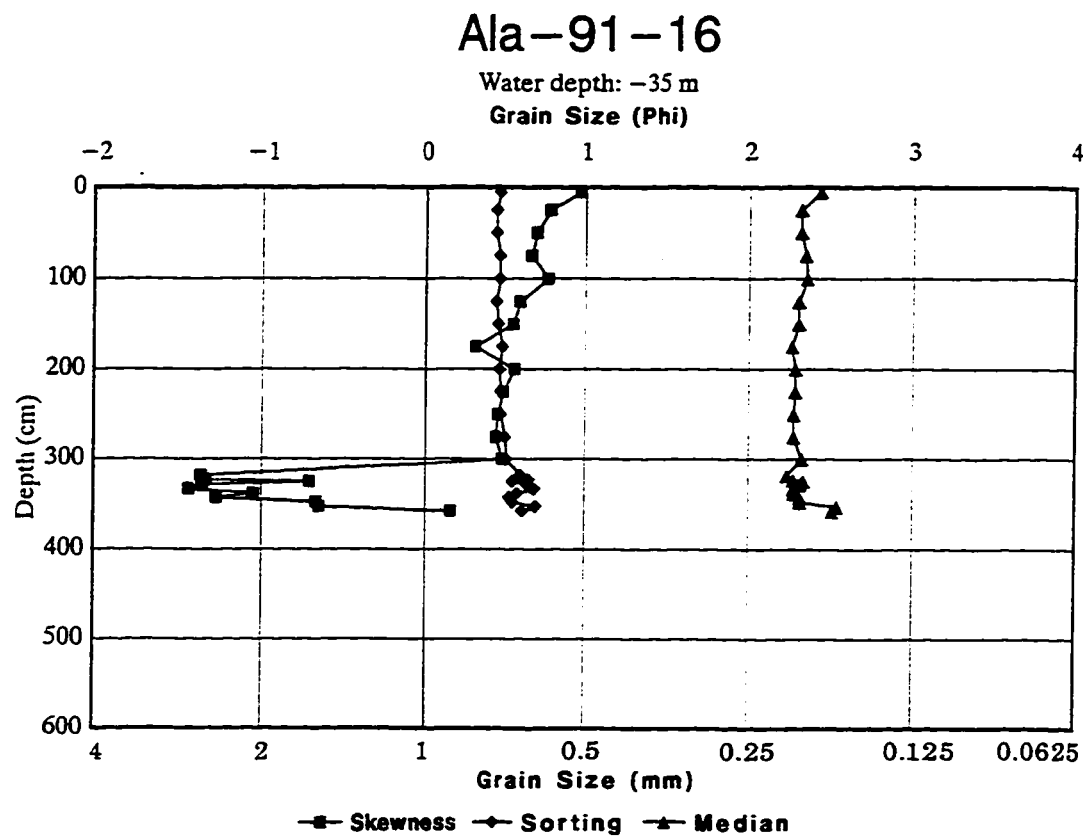
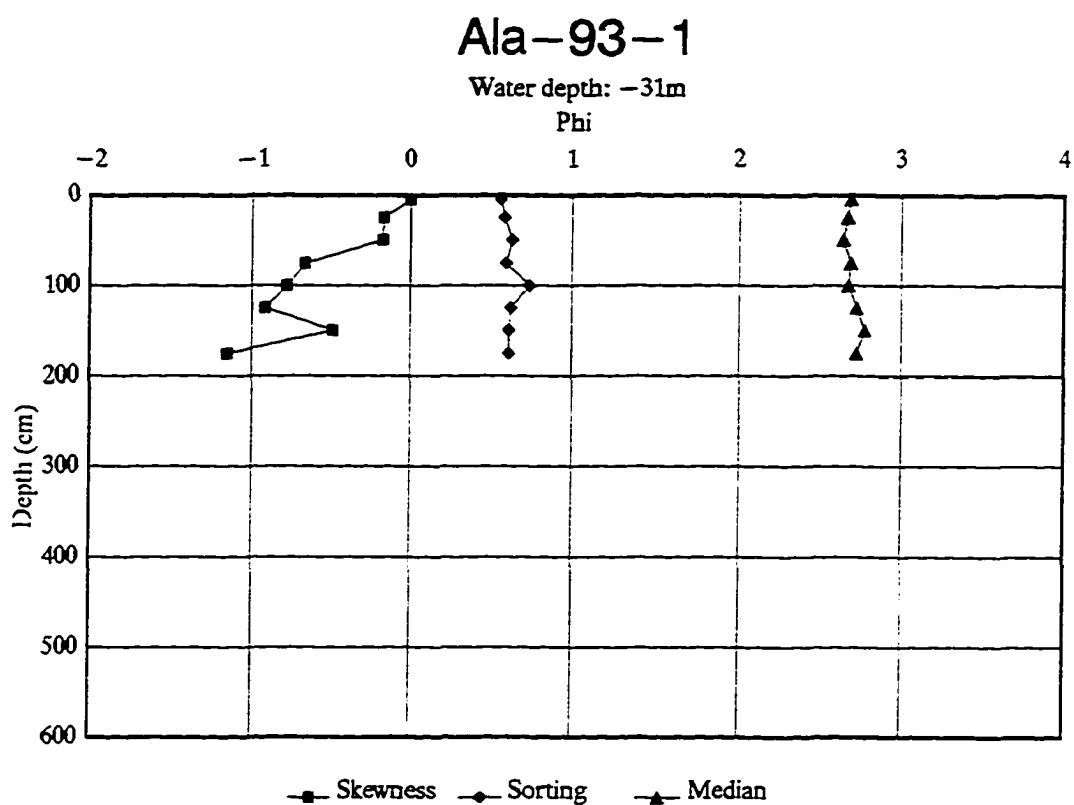
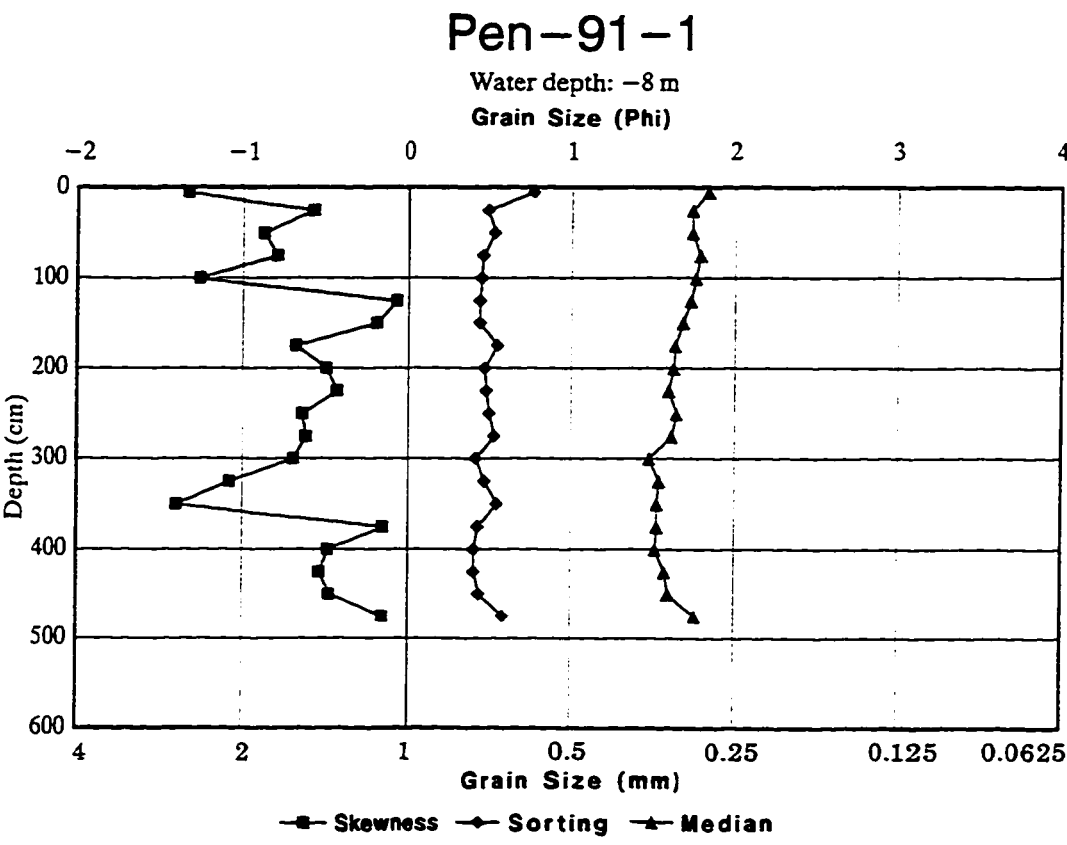
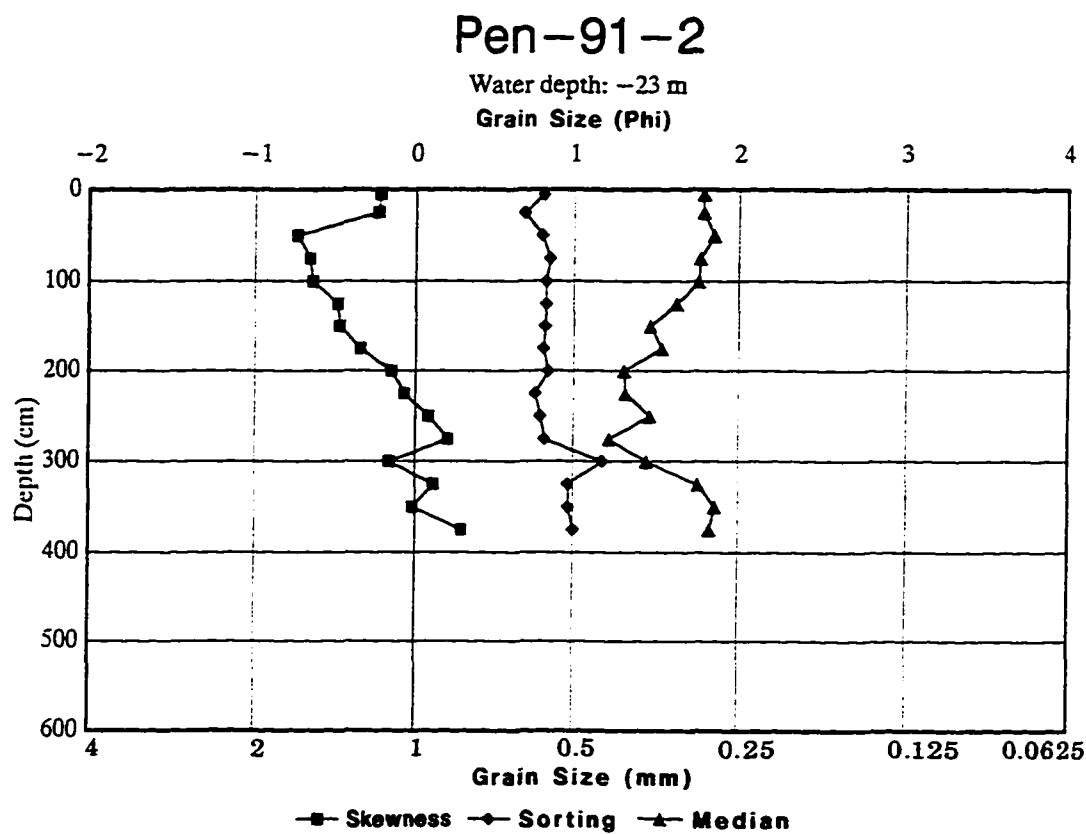


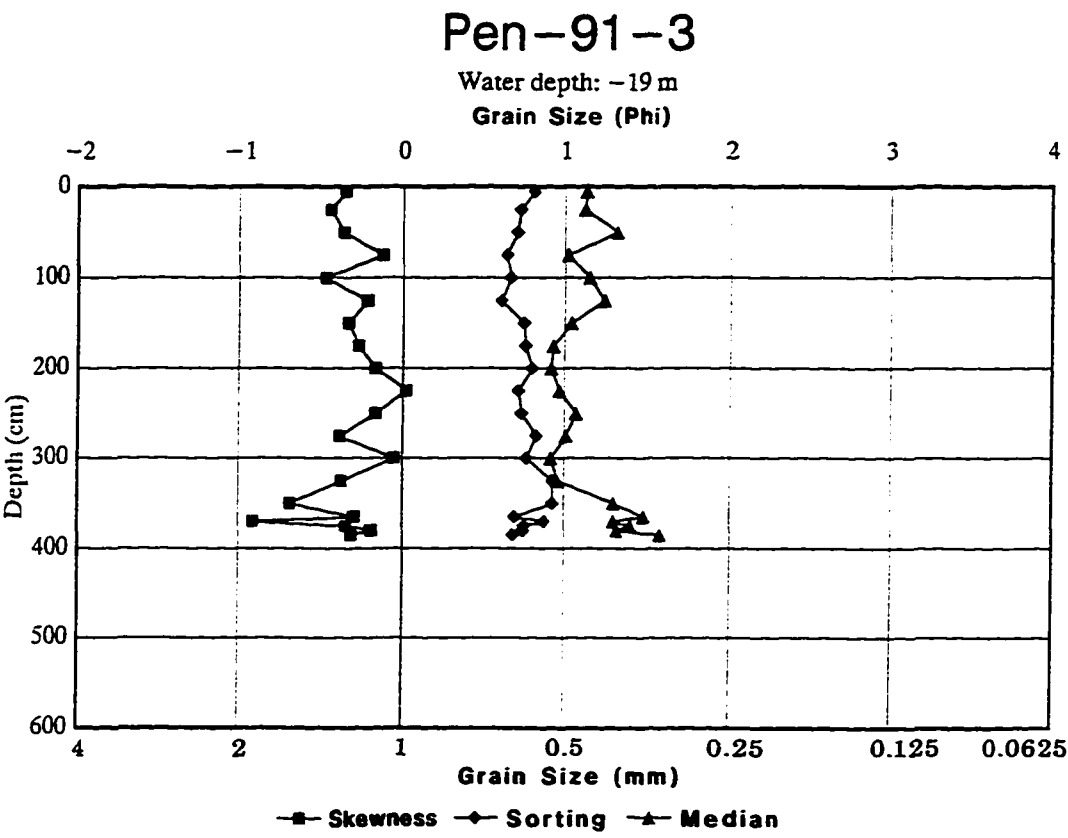
Fig. 7

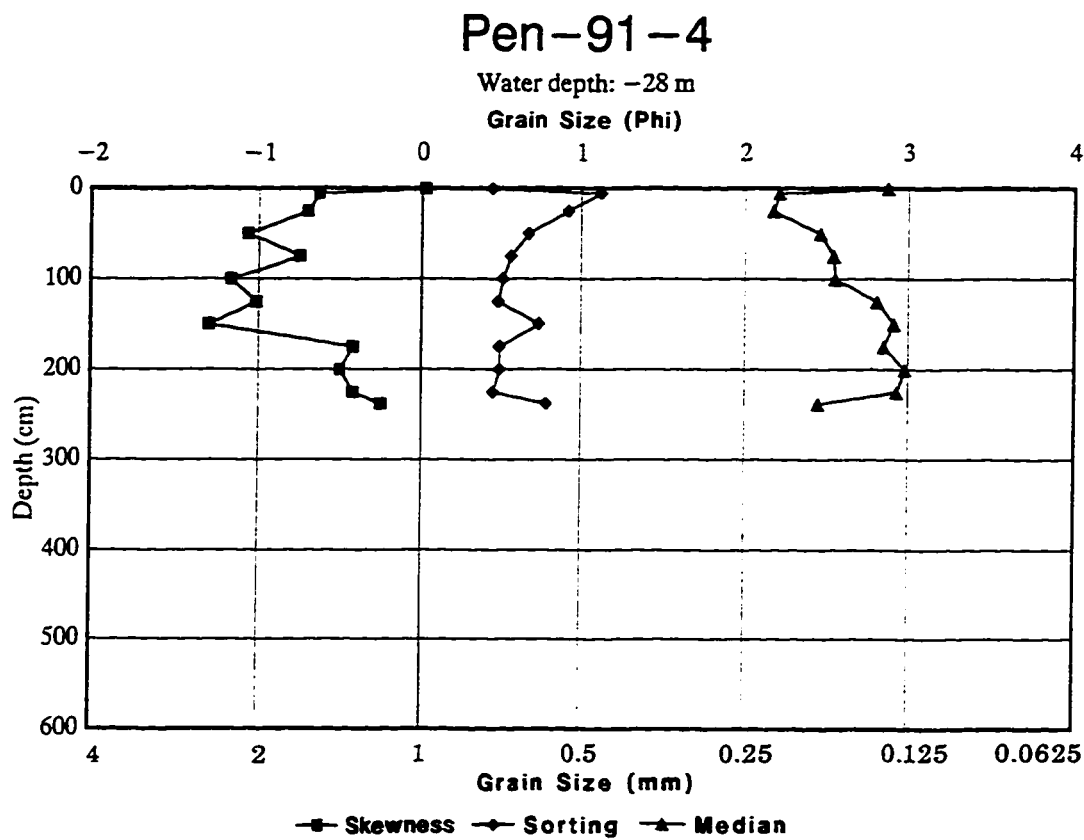


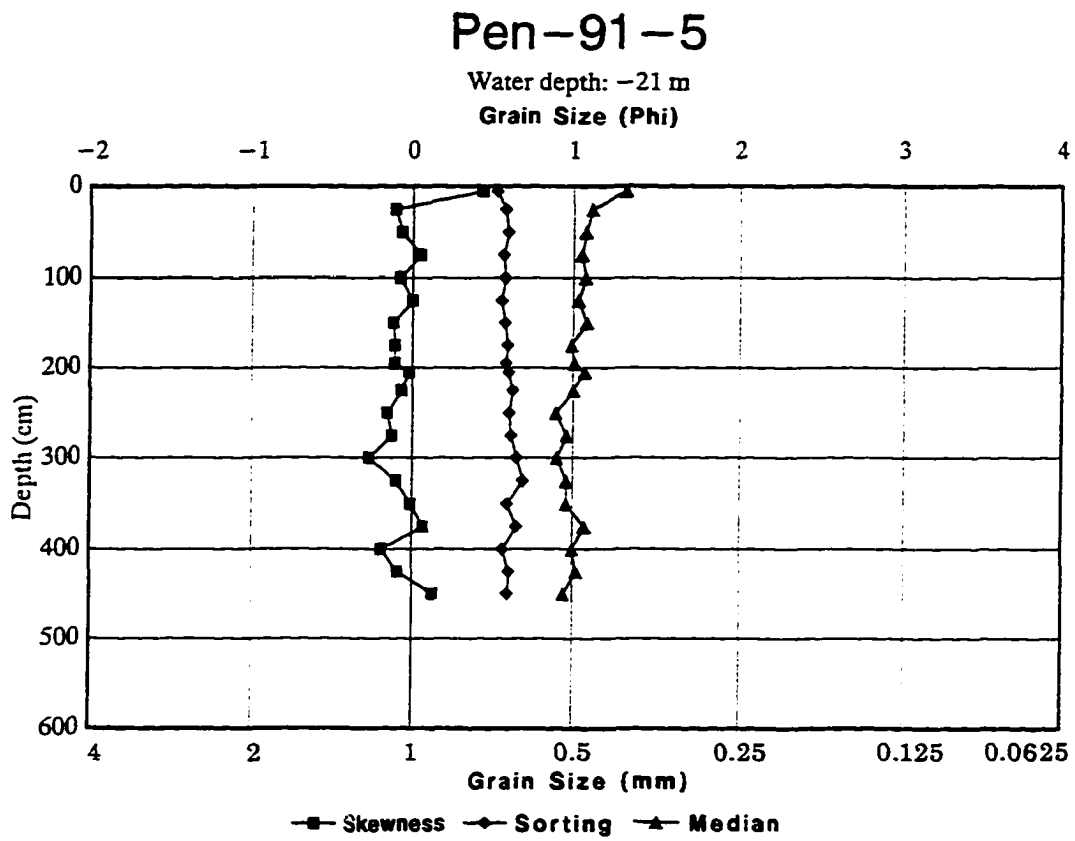


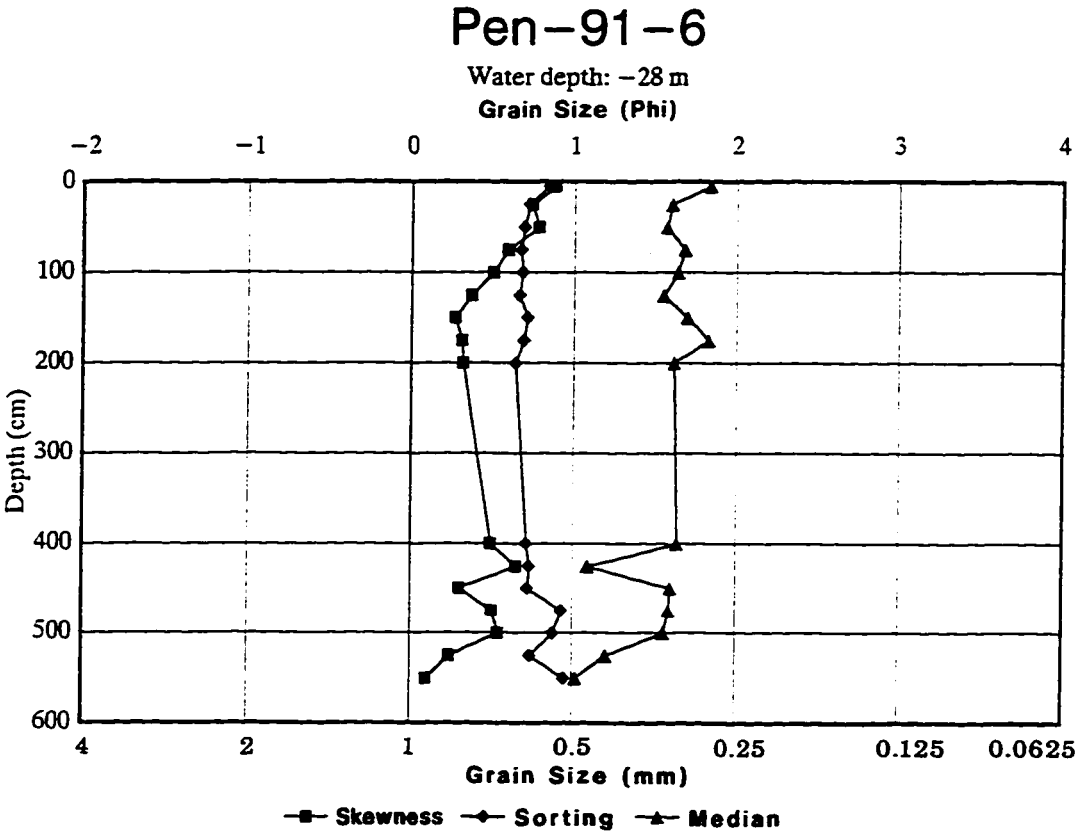


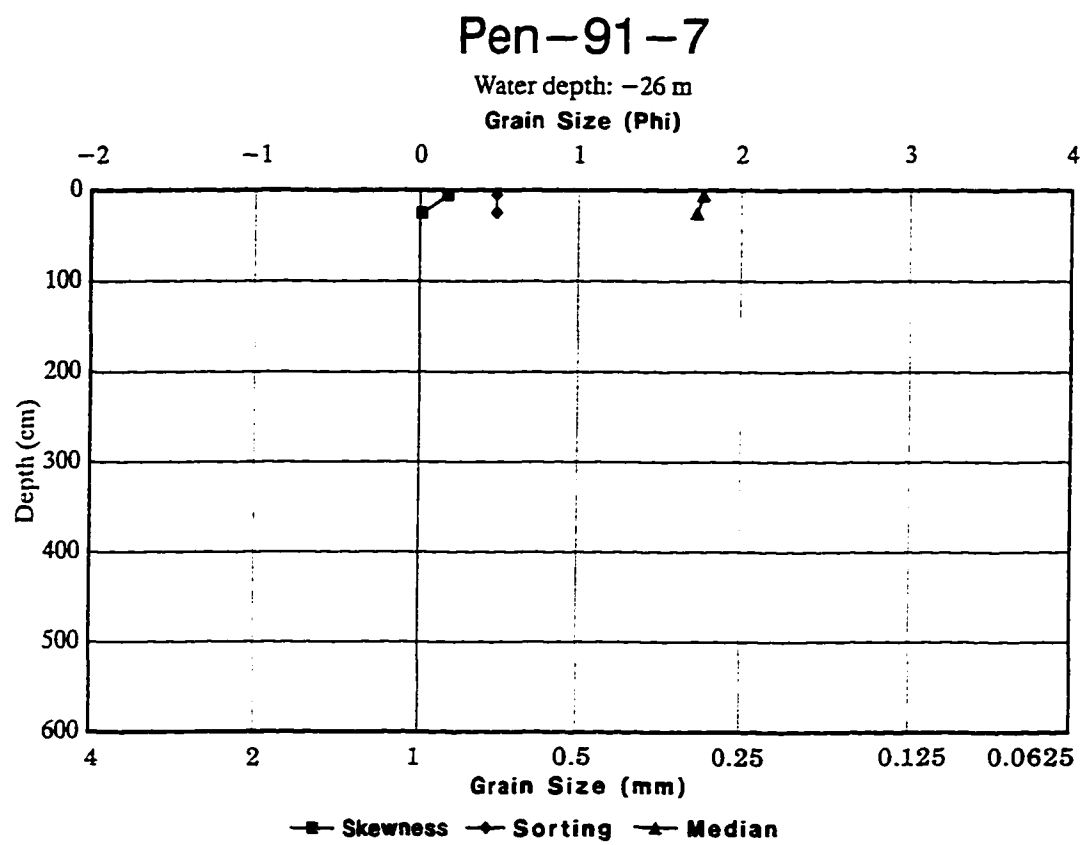


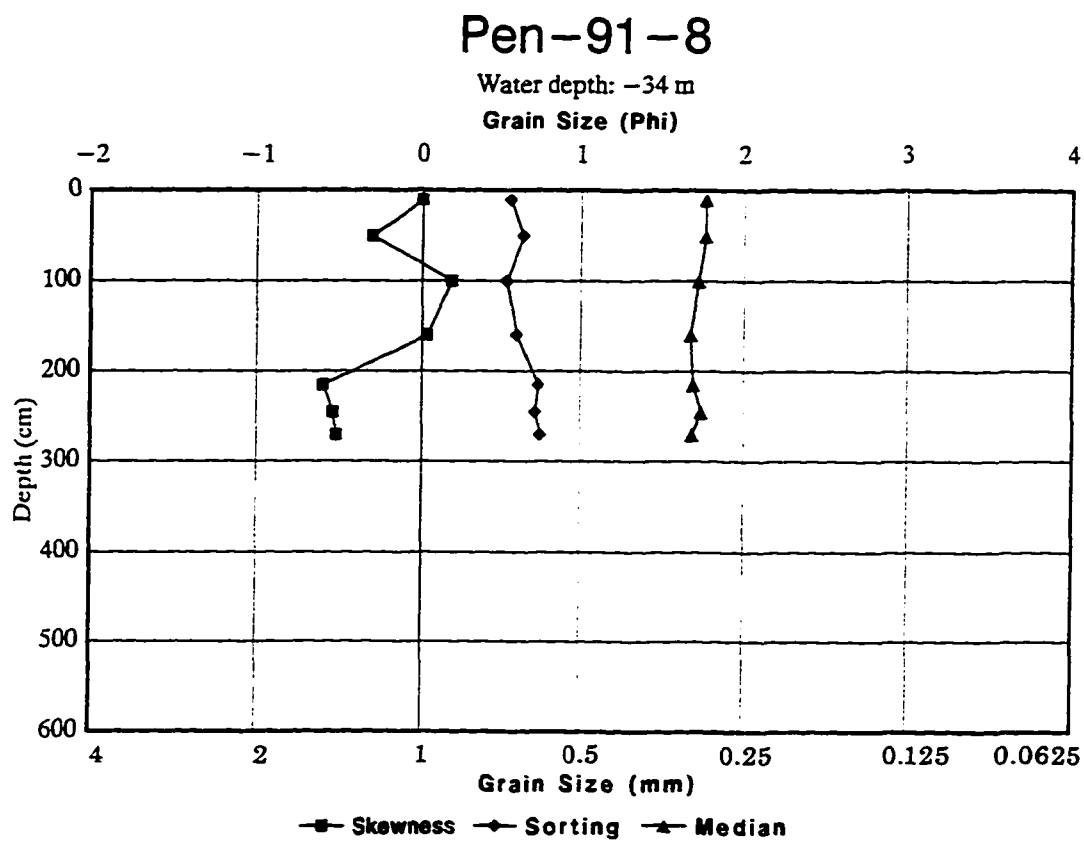




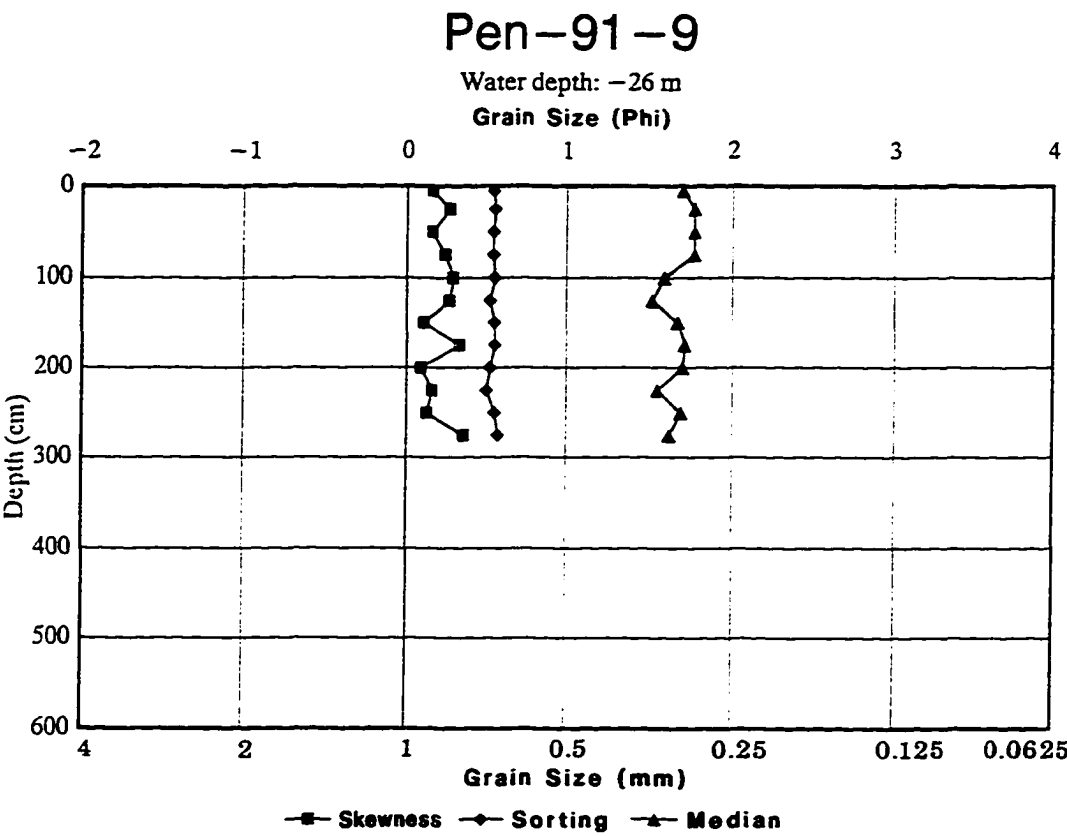


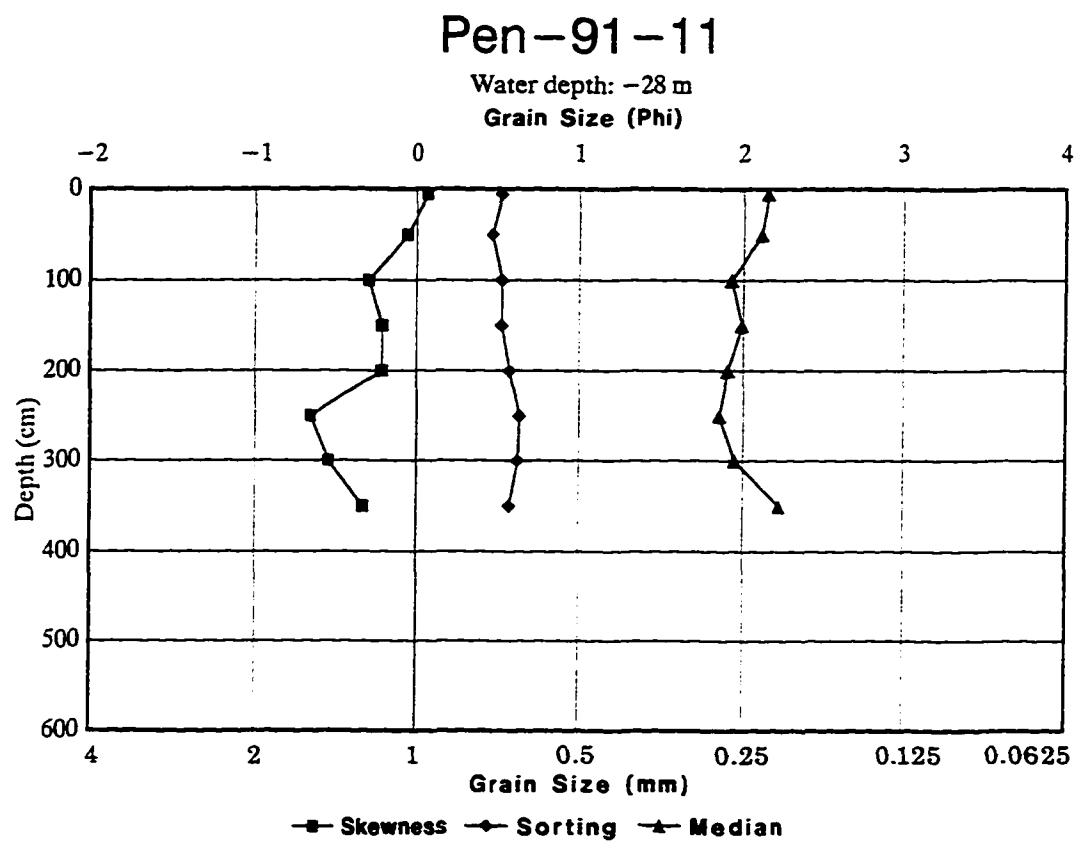


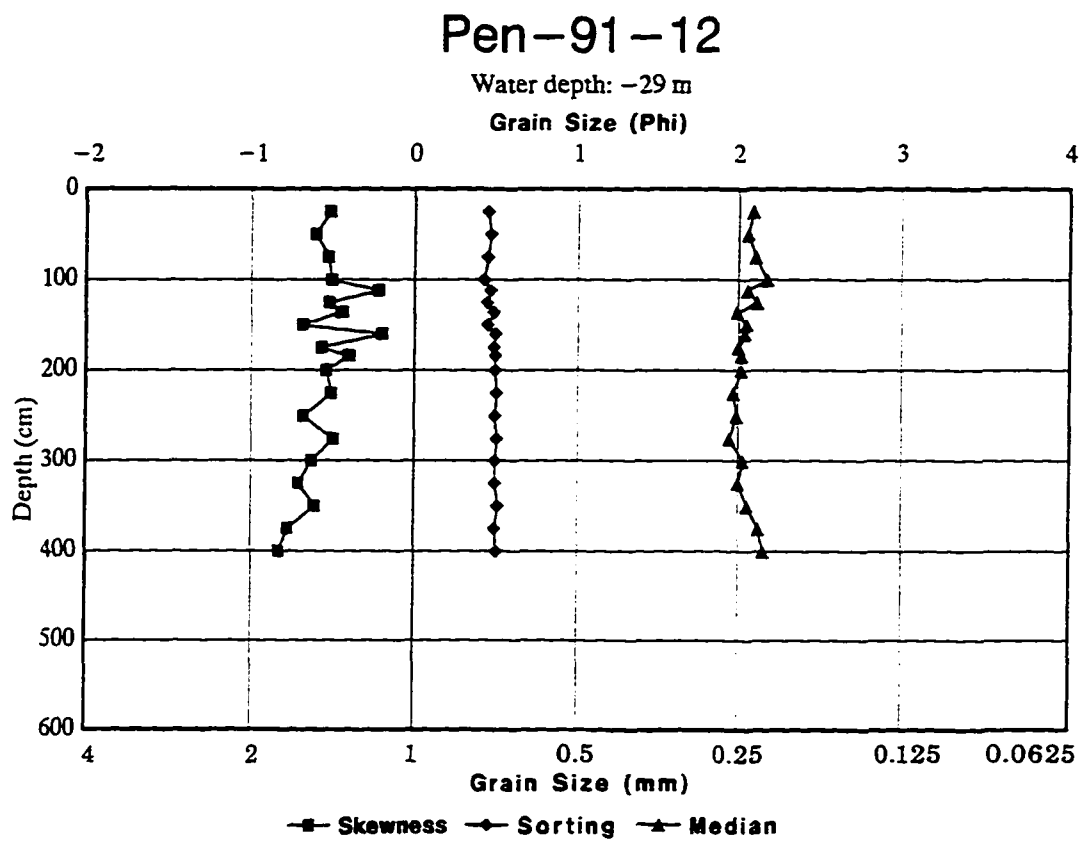


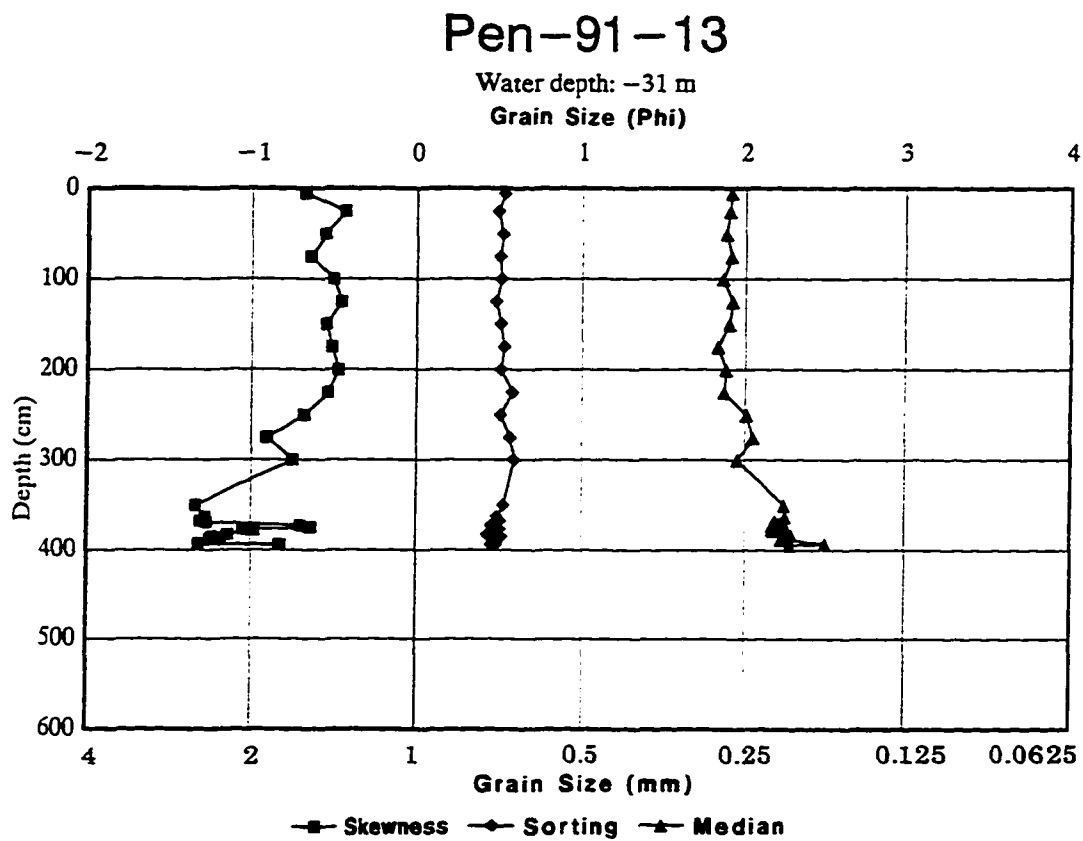


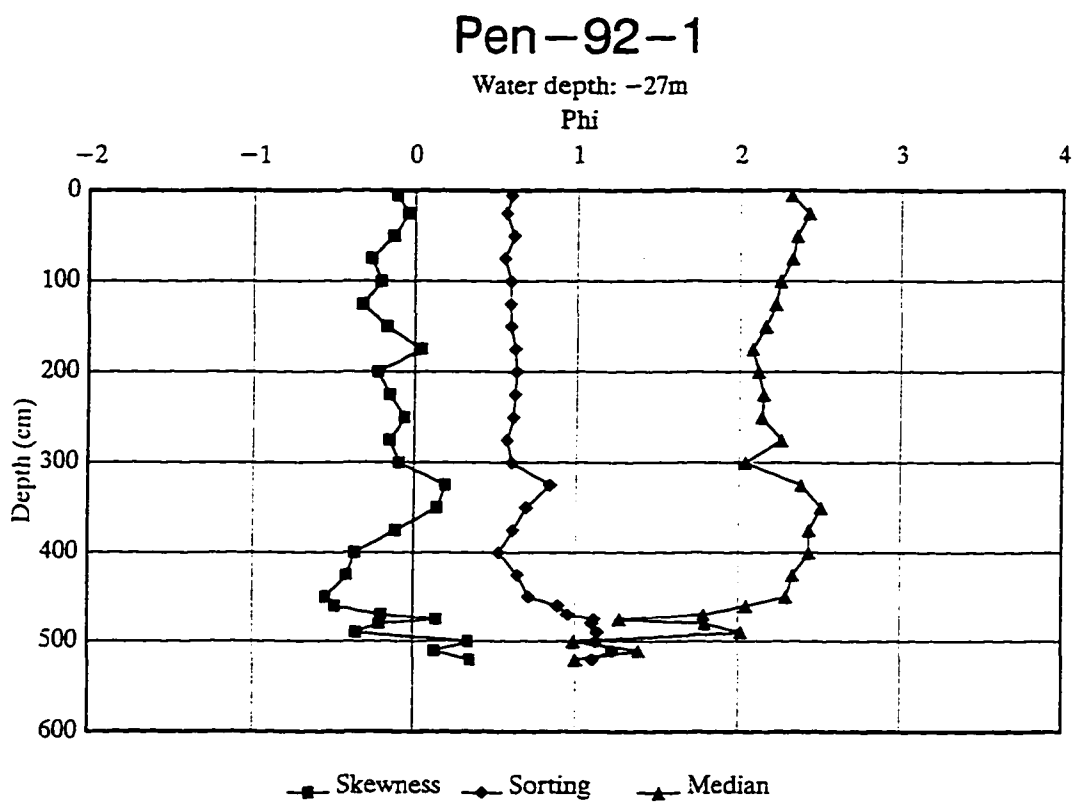


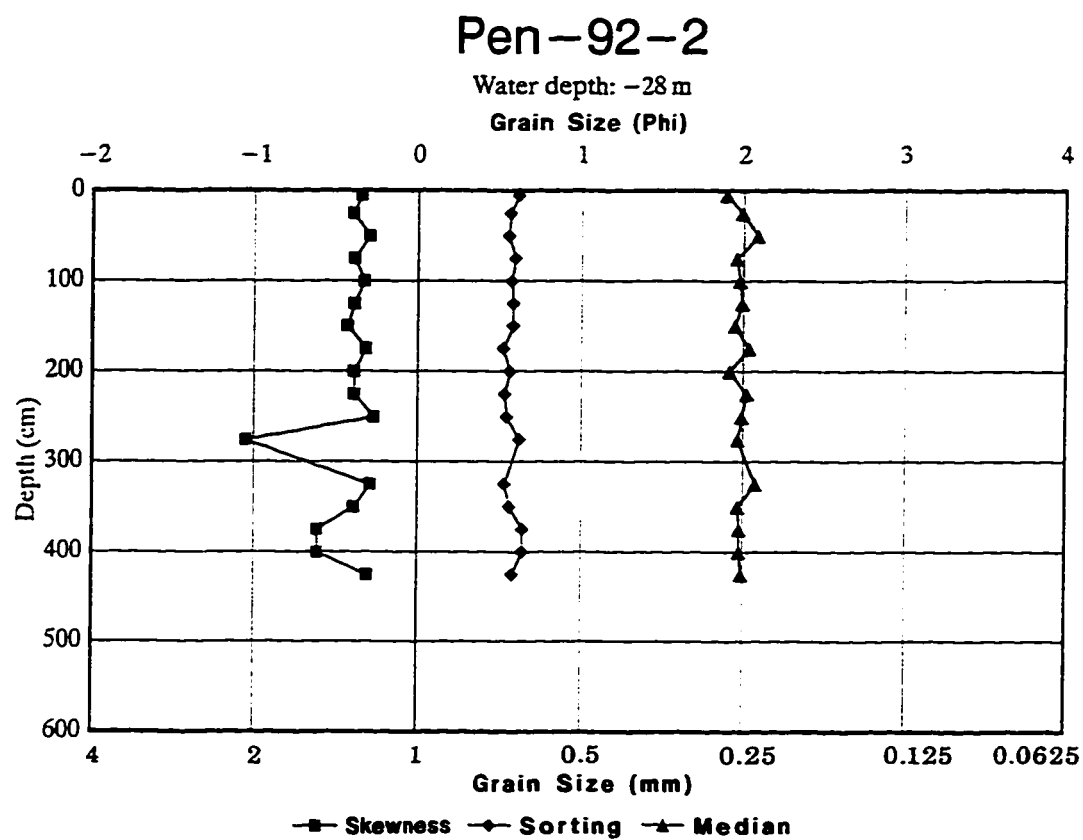


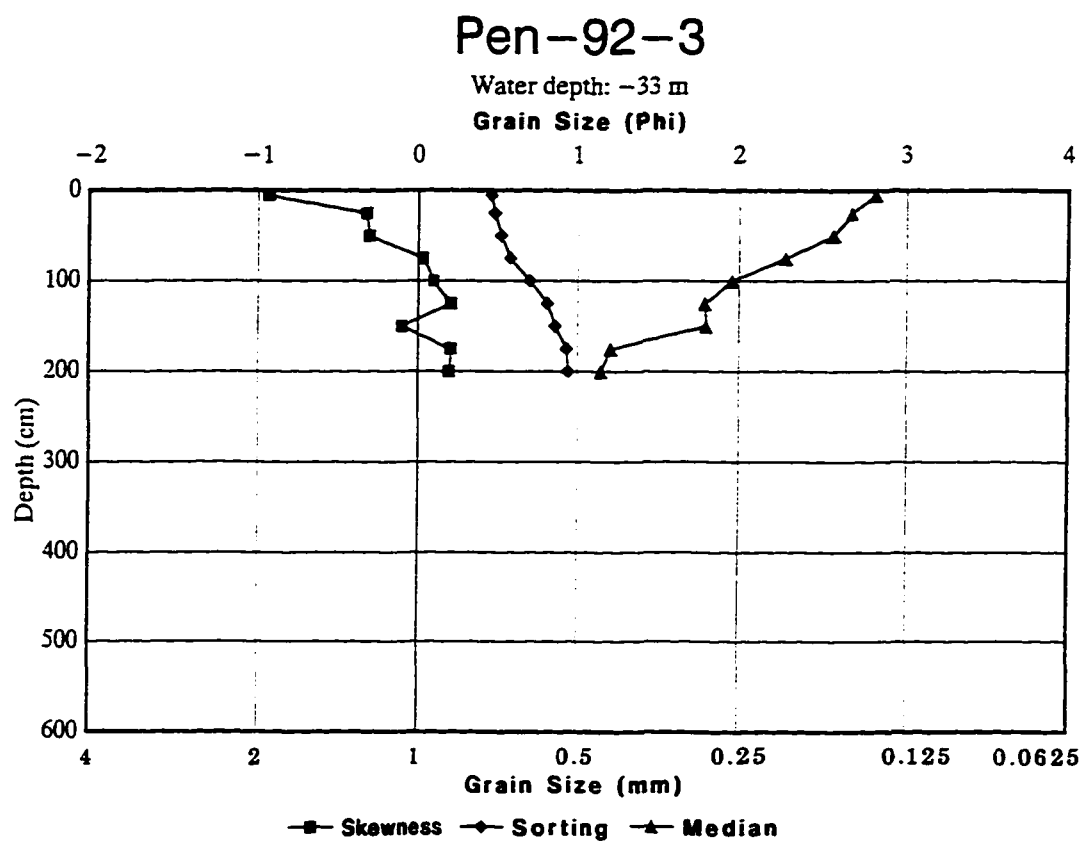


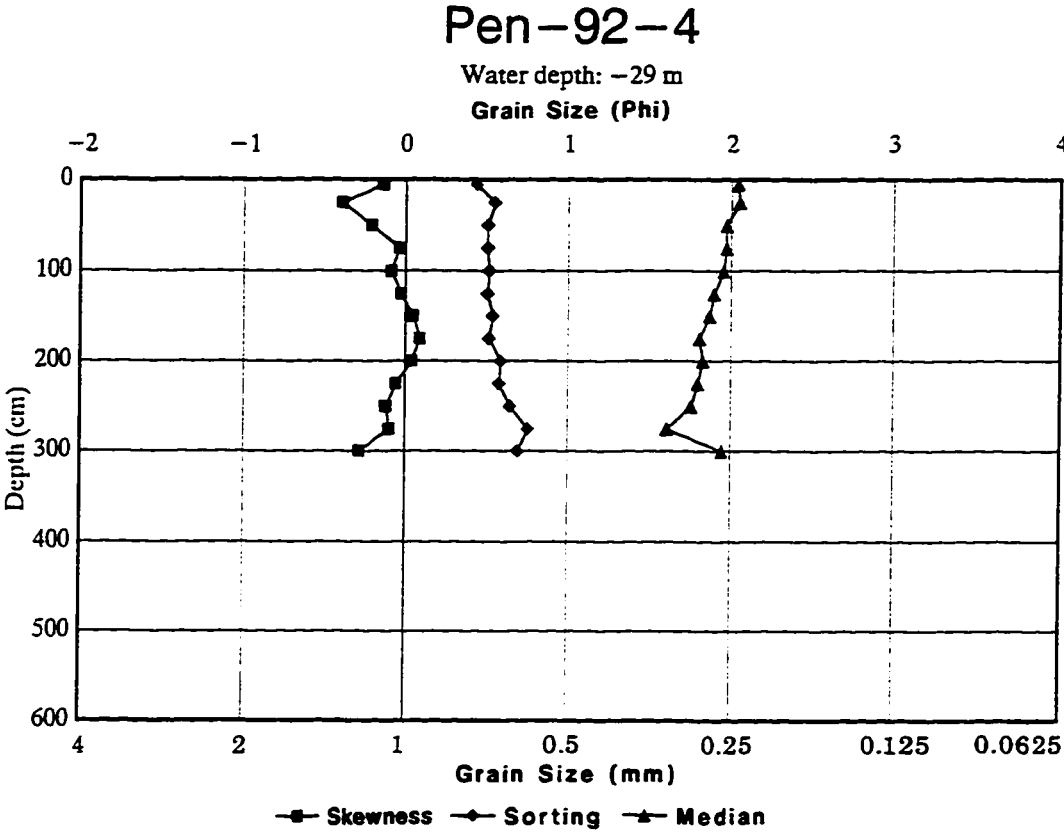




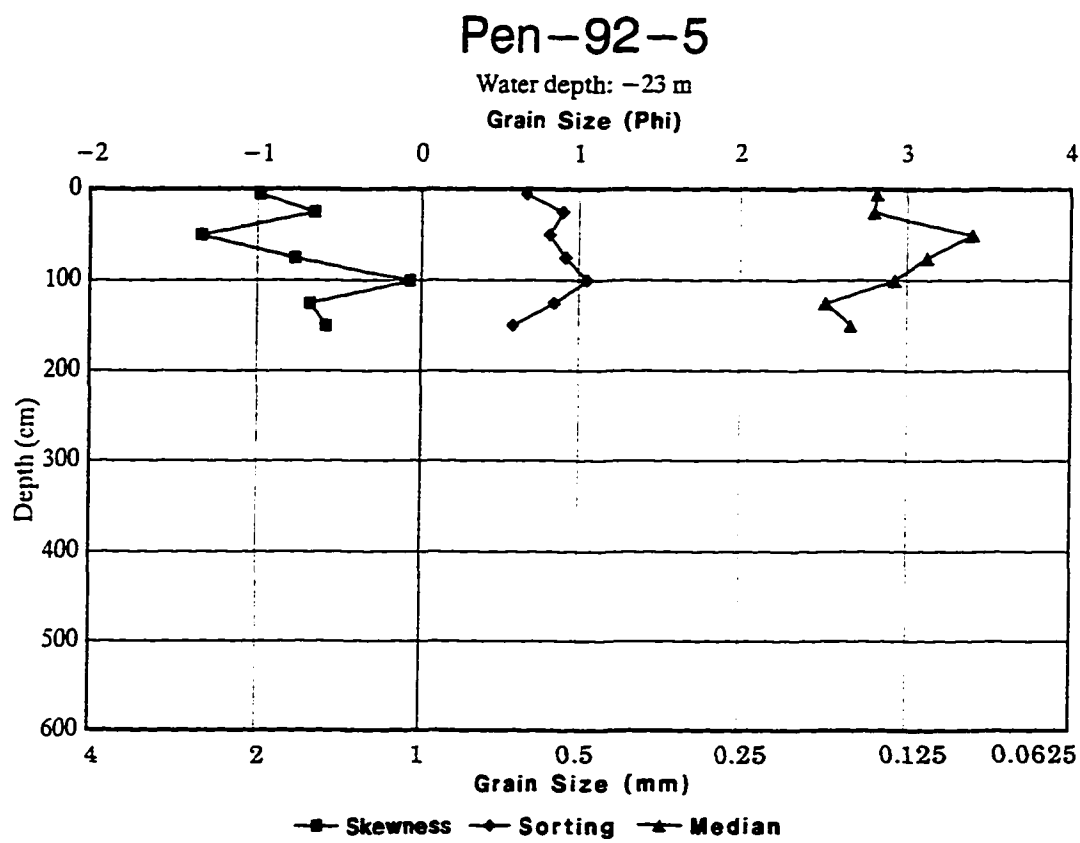


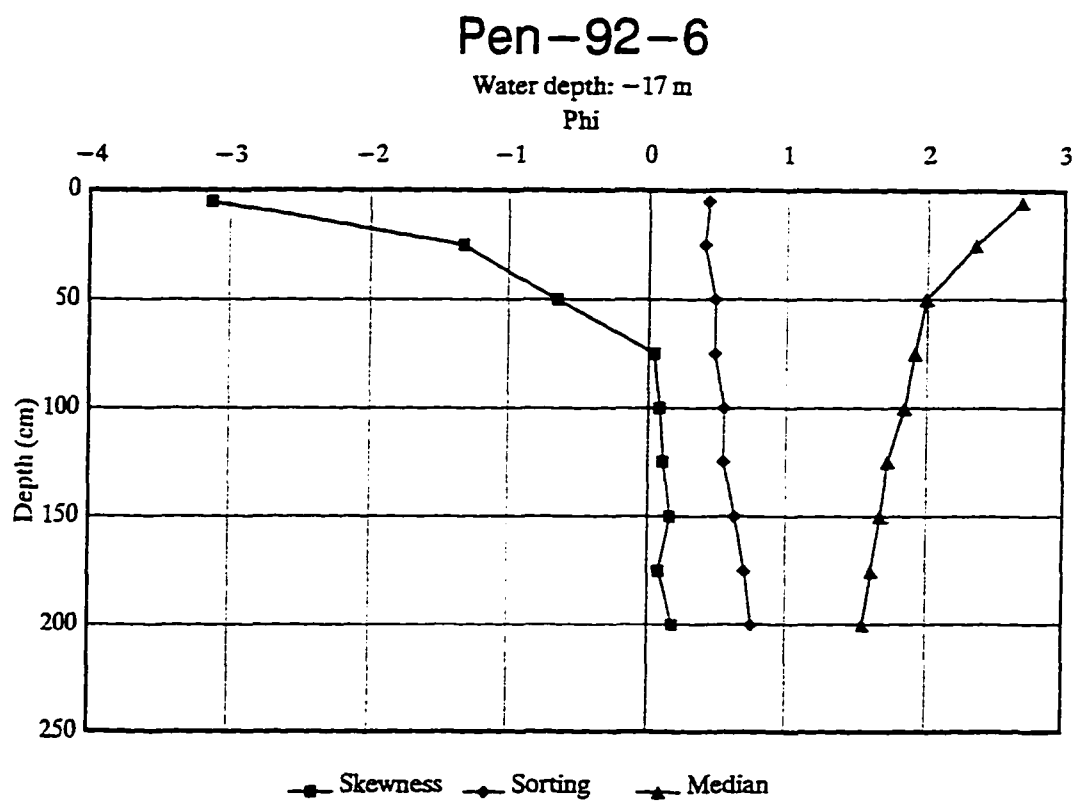


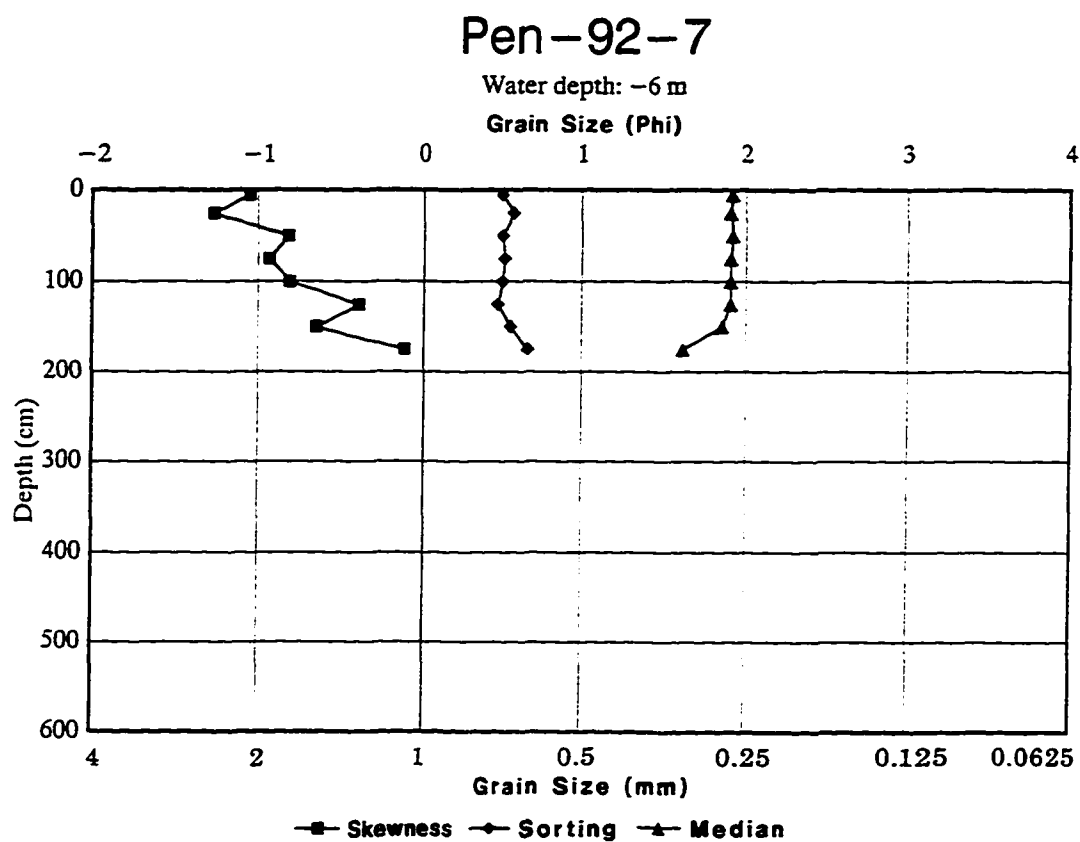


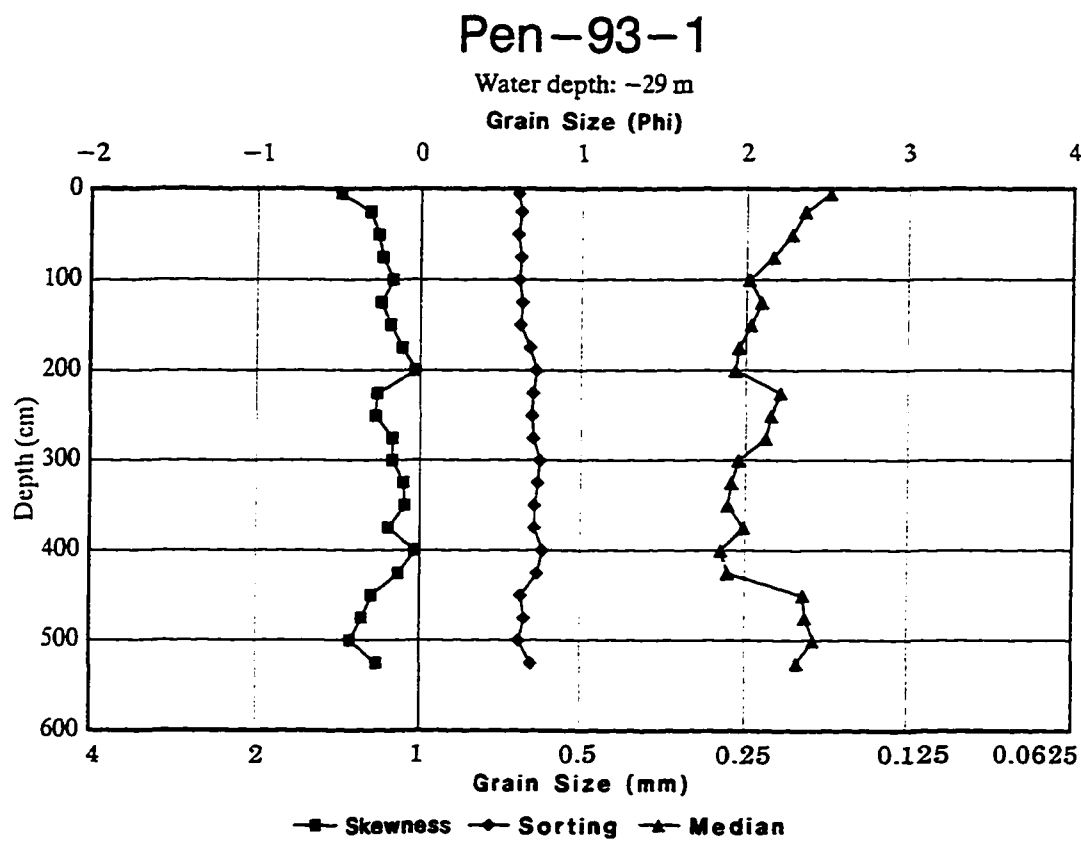


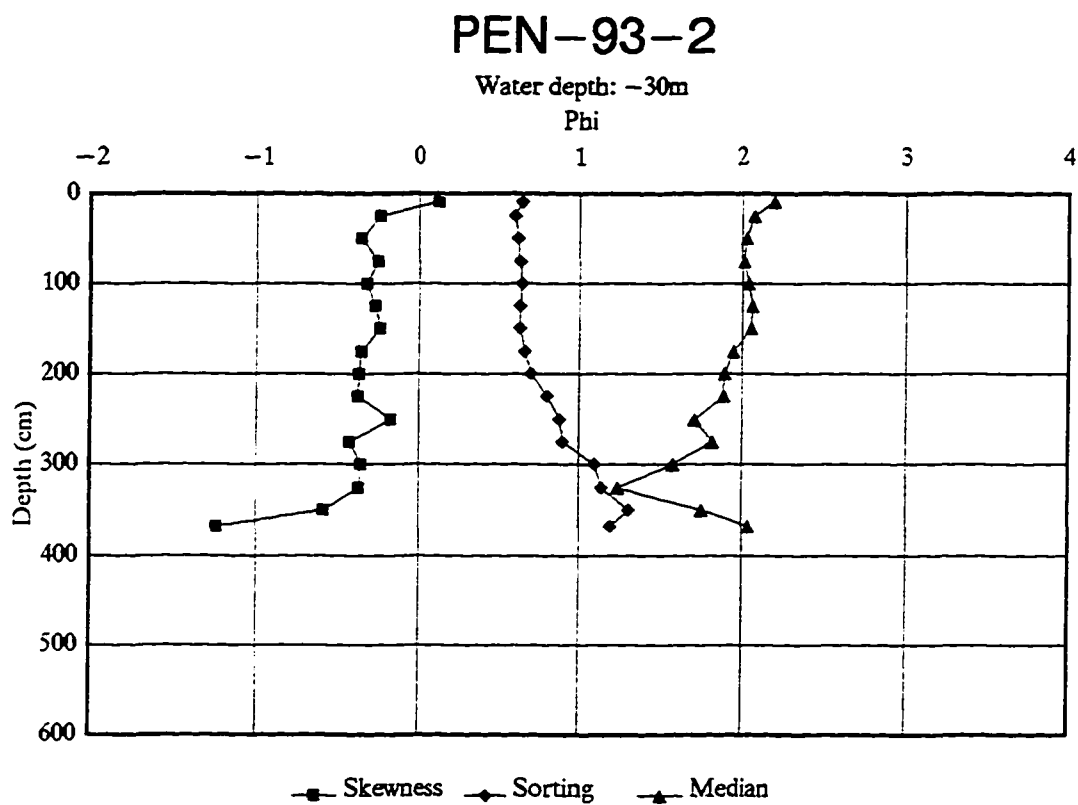


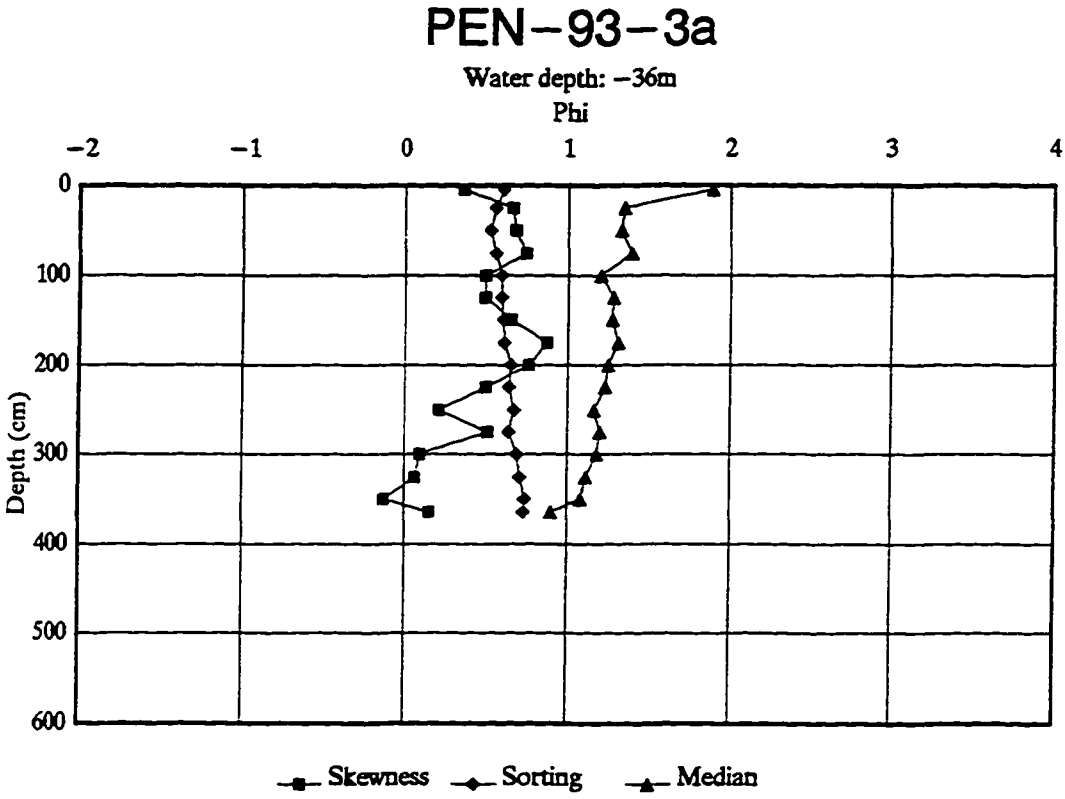


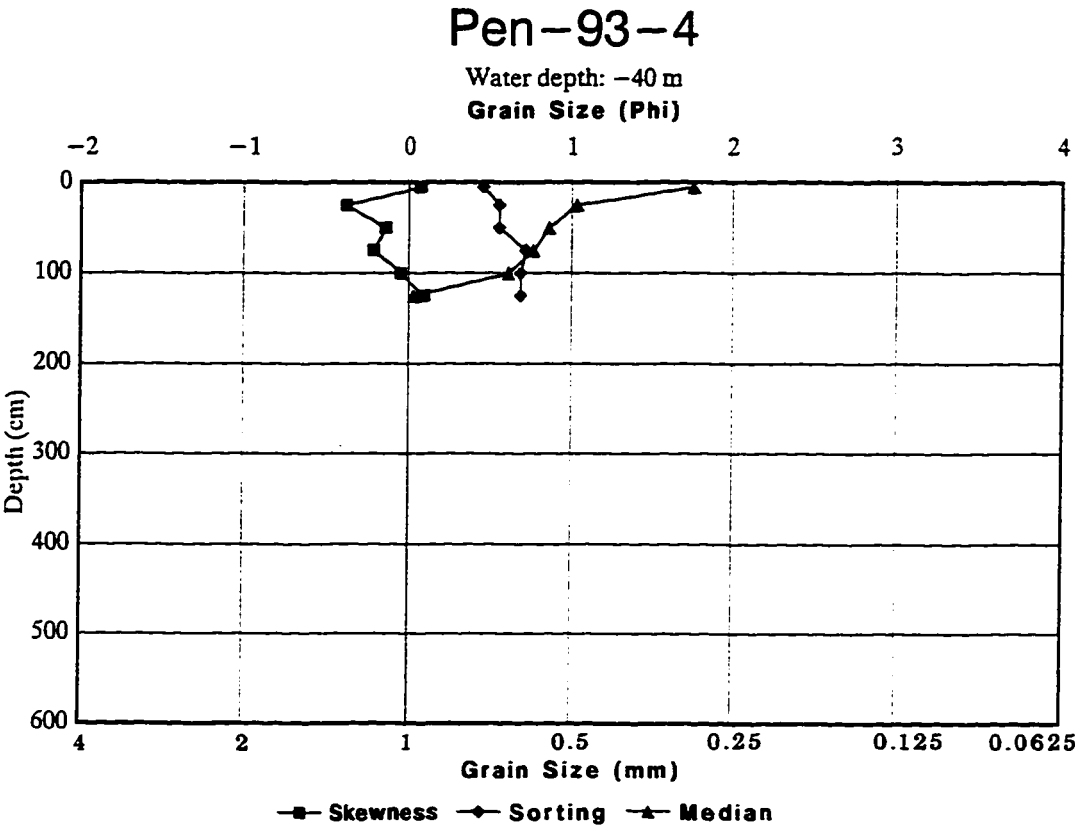


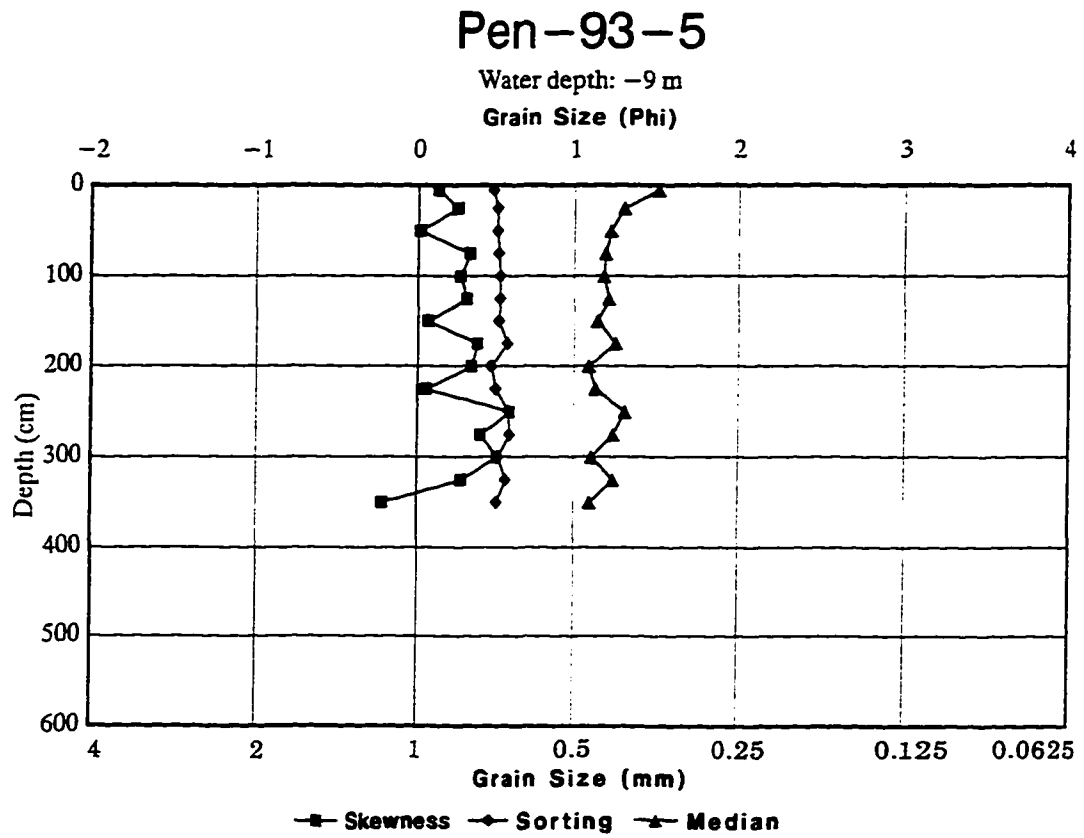




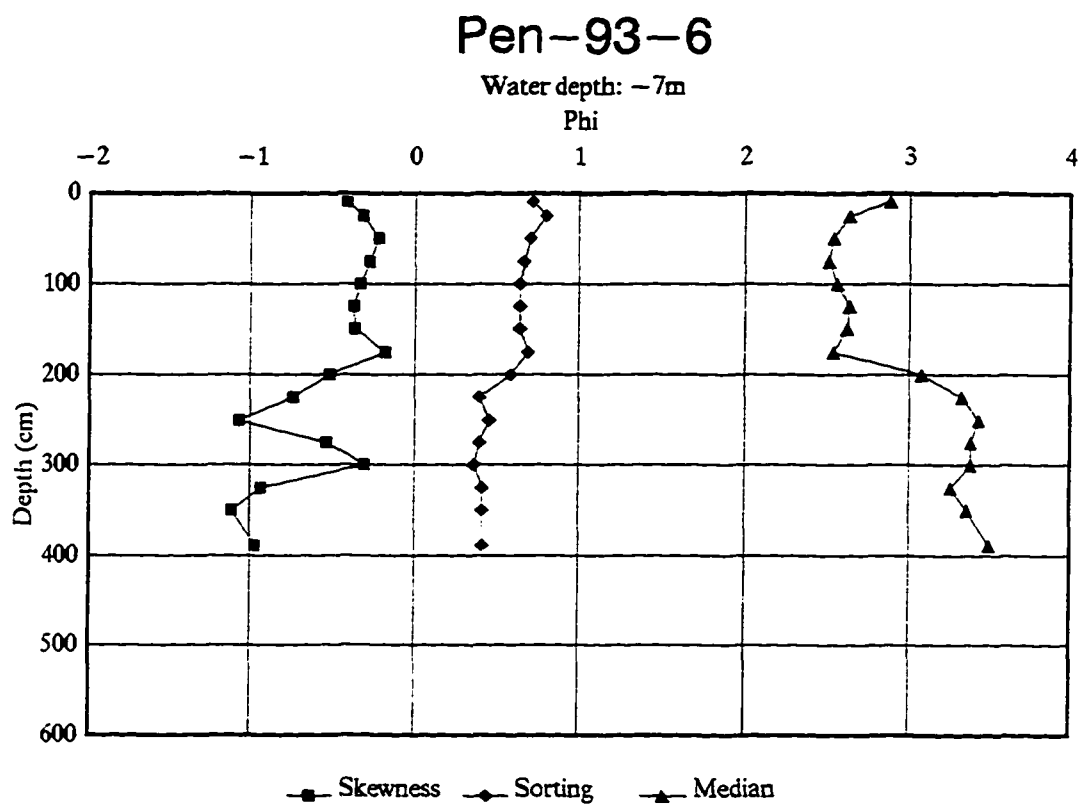


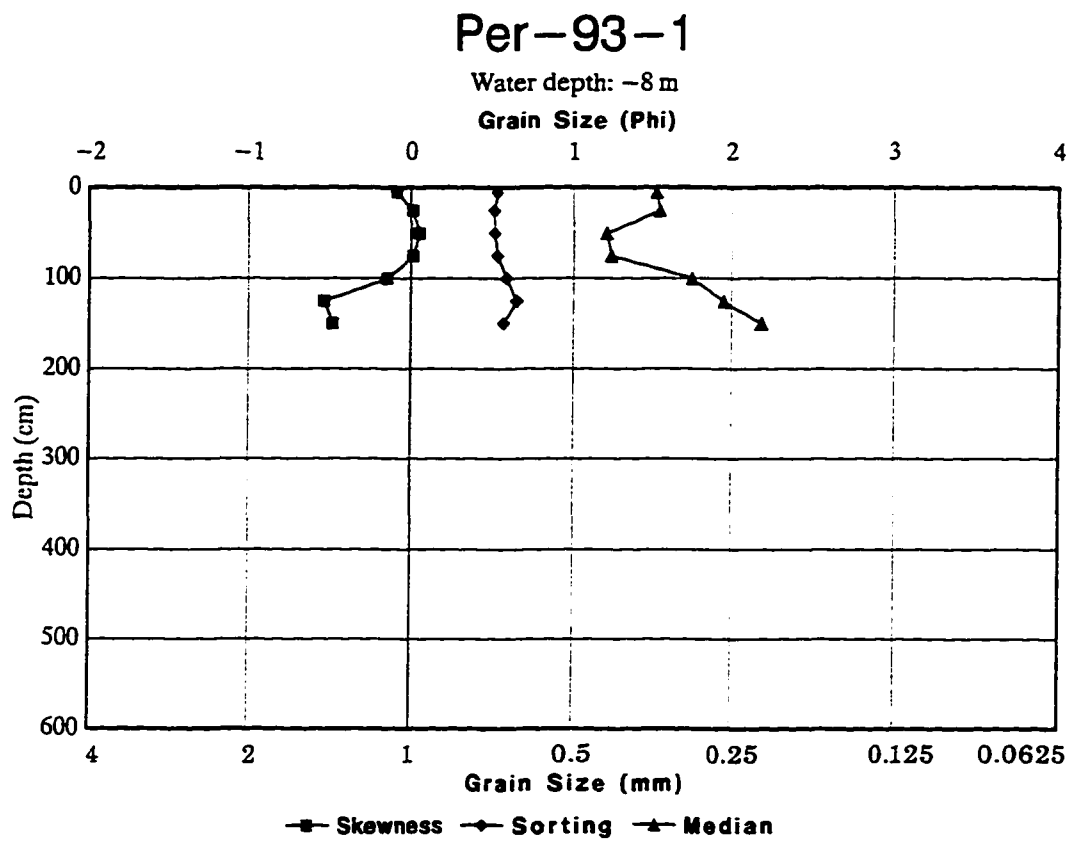












## **APPENDIX E. MACROFOSSIL SPECIES BY CORE**

Appendix E provides species abundance data for nine cores (ALA-91-15, ALA-91-16, PEN-91-3, PEN-91-5, PEN-91-11, PEN-91-12, PEN-91-13, PEN-92-5, and PER-93-3) and is a supplement to the macrofossil data presented in Anderson and McBride (1996). Refer to Anderson and McBride (1996), McBride et al. (1996), and Anderson et al. (1997) for additional information (e.g., methods).

## Core PER-93-3

Species abundance data for samples in core PER-93-3 (water depth=4 m).

Bioclasts are counted as follows: number of whole valves and valve fragments containing a hinge for bivalves, the number of whole shells and shells containing a spire for gastropods, whole colonies and individuals (unless otherwise indicated) for other bioclasts. Environmental categories and abbreviations are: Er=river-influenced estuary, Et=transitional estuary, Em=marine-influenced estuary, L=lagoon, I=inlet-influenced area, So=shoreface, Sh=shelf. See Table 2 of Anderson and McBride (1996) for salinity and depth ranges for environmental categories. Substrate categories and abbreviations appear in parentheses ( ) and are: M = mud, S = sand, G = shell gravel or hard substrate.

Species	Sample depth (cm) 388-400	Environmental range (substrate)
<b>BIVALVIA</b>		
<i>Nucula acuta</i>	5	Et-So (M)
<i>Noctia ponderosa</i>	1	I-So (S/G)
<i>Ostrea equestris</i>		Em-I (G)
<i>Crassostrea virginica</i>	11	Et (G)
<i>Anomia simplex</i>	9	Em-So (G)
<i>Linga amiantus</i>	2	Em-Sh (S)
<i>Parvilucina multilineata</i>	1	Et-Sh (M)
<i>Crassinella lunulata</i>	2	I-Sh (G)
<i>Laevicardium mortoni</i>	1	Em-I (M/S)
<i>Mulinia lateralis</i>	1	Et-So (M/S)
<i>Mercenaria</i> sp.	2	
<i>Chione cancellata</i>	16	Em-Sh (S)
<i>C. intapurplea</i>	5	So-Sh (S)
<i>Dosinia elegans</i>	2	So-Sh (M/S)
<i>Corbula caribaea</i>	1	Em-Sh (M)
<b>GASTROPODA</b>		
<i>Crepidula fornicata</i>	1	Em-Sh (G)
<i>Polinices duplicatus</i>	1	Em-Sh (S)
<i>Nassarius</i> sp.	1	
<i>Olivella</i> sp.	1	
<i>Acteocina canaliculata</i>	2	Et-L (M/S)
<b>OTHER</b>		
<i>Oculina diffusa</i>	4	
<i>Astrangiaastreiformis</i>	1	
barnacle	1	

## Core PEN-92-5

Species abundance data for samples in core PEN-92-5 (water depth=24 m). See core PER-93-3 for information on how species were counted and on environmental and substrate abbreviations.

Species	Sample depth (cm)															total	environmental range (substrate)
	171	176	181	186	191	196	201	206	211	216	221	226	231	236	241		
<b>BIVALVIA</b>																	
<i>Nucula proxima</i>	1	9	5	9	8	11	10	3	0	1	3	4	6	6	2	78	I-Sh (M)
<i>Nuculana concentrica</i>	18	63	27	79	43	30	26	17	12	4	8	30	15	23	7	402	Et-Sh (M)
<i>Anadara transversa</i>	41	56	16	52	32	19	21	15	10	2	7	25	11	17	9	333	Em-Sh (S)
<i>Glycymeris pectinata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	So (S)
<i>Argopecten gibbos</i>	5	3	2	5	2	2	0	0	3	0	1	2	3	0	2	30	So-Sh (S)
<i>Anomia simplex</i>	28	40	13	34	22	11	10	7	5	2	6	21	8	11	10	228	Em-Sh (G)
<i>Linga amiantus</i>	2	7	5	16	18	12	11	4	3	3	2	1	1	1	1	91	Em-Sh (S)
<i>Parvilucina multilineata</i>	5	11	11	8	4	9	3	3	2	1	2	4	3	5	2	73	Et-Sh (M)
<i>Lucina radians</i>	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	So-Sh
<i>Diplodonta punctata</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	Em-Sh
<i>Crassinella lunulata</i>	6	7	2	2	3	3	4	1	0	0	1	2	2	0	1	34	I-Sh (G)
<i>Pleuromeris indentata</i>	1	2	0	0	0	0	0	0	0	1	0	0	1	0	0	5	So-Sh
<i>Laevicardium laevigatum</i>	0	0	0	0	0	2	0	2	1	0	0	0	0	0	0	5	Sh (S)
<i>Trachycardium</i> sp.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<i>Chama macrophylla</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	Sh (G)
<i>Mulinia lateralis</i>	16	47	35	80	40	36	33	19	14	11	10	32	26	18	13	430	Et-So (M/S)
<i>Ervilia concentrica</i>	2	2	1	2	0	0	5	0	0	0	0	0	0	0	0	12	Em-So (S)
<i>Tellina similis</i>	11	9	5	3	3	5	4	0	0	0	1	3	2	0	3	49	Em-L (S)
<i>Strigilla mirabilis</i>	2	1	1	1	1	1	1	0	0	0	1	0	0	0	0	9	So (S)
<i>Abra aequalis</i>	0	1	0	4	1	4	0	2	0	0	0	0	0	0	0	12	Em-Sh (M)
<i>Macrocallista maculata</i>	0	0	0	4	2	0	1	0	0	0	0	0	0	2	0	9	So-Sh (S)
<i>Macrocallista</i> sp.	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	5	
<i>Chione cancellata</i>	0	0	0	3	5	0	0	0	1	0	0	0	2	0	0	11	Em-Sh (S)
<i>C. intapurea</i>	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3	So-Sh (S)
<i>C. labiata</i>	0	0	0	0	3	0	0	0	0	0	0	0	0	2	0	5	Sh
<i>C. grus</i>	4	8	6	19	9	14	12	4	2	2	1	5	7	3	4	100	I-Sh (S)
<i>Chione</i> spp.	3	3	5	3	0	2	3	0	0	0	0	3	0	0	0	22	
<i>Dosinia elegans</i>	0	1	0	6	5	0	0	0	0	0	0	0	0	0	0	12	So-Sh (M/S)
<i>Corbula operculata</i>	9	22	15	20	21	17	11	8	2	2	4	12	10	11	8	172	Sh (M)
<i>C. caribaea</i>	0	10	6	22	16	16	17	9	9	3	2	4	9	11	2	136	Em-Sh (M)
<i>Pandora trilineata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	Em-So (M)
<i>Verticordia ornata</i>	1	1	0	2	1	0	0	1	0	0	1	0	0	0	0	7	Sh (S)
<b>GASTROPODA</b>																	
<i>Diodora cayenensis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	Em-Sh (G)
<i>Cyclostrum</i> pentagonus?	2	1	0	1	0	0	0	0	1	5	0	0	0	0	0	10	So-Sh (M)
<i>Crepidula fornicata</i>	7	14	6	12	8	6	2	2	3	3	2	0	2	2	2	71	Em-Sh (G)
<i>C. convexa</i>	0	0	0	0	0	0	0	4	0	0	0	1	0	0	0	5	Em-Sh (G)
<i>C. plana</i>	2	0	0	0	2	1	0	0	0	0	0	3	0	0	0	8	Et-Sh (G)

Species	Sample depth (cm)															total	environmental range (substrate)
	171	176	181	186	191	196	201	206	211	216	221	226	231	236	241		
<i>Calyptraea</i>	4	1	0	1	1	0	0	0	1	0	0	0	0	0	0	8	So-Sh (G)
<i>centralis</i>																	
<i>Polinices</i>	0	0	3	4	4	3	2	2	2	0	2	3	1	1	0	27	Em-Sh (S)
<i>duplicatus</i>																	
<i>Sinum perspectrum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	I-Sh (S)
<i>S. maculatum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	Sh
<i>Epitonium</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	I-Sh (S)
<i>angulatum</i>																	
<i>Epitonium</i> sp.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Anachis obesa</i>	3	6	1	0	2	1	0	0	0	0	2	0	1	1	0	17	Er-So (S/G)
<i>Nassarius albus</i>	0	0	0	0	1	1	0	1	0	0	1	1	0	0	0	5	So-Sh
<i>Oliva savana</i>	0	0	0	2	3	1	0	0	1	0	0	0	0	0	0	7	Em-Sh (S)
<i>Olivella pusilla</i>	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	So (S)
<i>O. floralis</i>	0	0	0	0	0	1	0	2	1	0	0	0	0	1	0	5	L-So (S)
<i>O. minuta</i>	0	0	0	0	0	1	0	0	0	0	0	0	2	1	0	4	I (S)
<i>Margarinella apicina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	I (S)
<i>Cyroturris cerniella</i>	4	5	1	3	5	2	0	1	0	0	0	0	0	0	0	21	L-Sh (S)
<i>Turbonilla incisa</i>	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	Em-So
<i>Acteon</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	So-Sh
<i>punctostriatus</i>																	
<i>Bulla striata</i>	6	5	1	4	3	1	1	1	0	0	0	0	0	0	0	22	L-I (S)
<i>Acteocina</i>	0	3	2	2	1	0	1	1	0	0	1	0	1	0	0	12	Et-L (M/S)
<i>canaliculata</i>																	
<i>Cavolina tridentata</i>	6	4	0	1	4	0	2	0	0	1	0	0	0	0	0	18	pelagic
SCAPHOPODA																	
<i>Dentalium eborium</i>	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	So-Sh (S)
<i>D. texanum</i>	2	6	0	4	3	7	1	0	1	0	1	2	0	1	0	28	Em-Sh (M)
<i>Cadulus</i>	0	1	1	10	3	7	0	2	0	1	2	0	0	0	3	30	Em-Sh
<i>carolinensis</i>																	
<i>C. quadridentatus</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	So-Sh
<i>Cadulus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	2	3	1	0	6	
OTHER																	
<i>sortid foraminifera</i>	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	L-Sh (S)
<i>Lithothamnion</i>	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	5	
<i>Oculina diffusa</i>	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	
<i>cupularid bryozoan</i>	0	3	1	1	5	2	4	2	2	1	2	4	2	2	0	31	I-Sh (S)
<i>branching bryozoan</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
<i>encrusting bryozoan</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
<i>sand dollar</i>	0	5	1	10	3	1	1	0	0	0	1	3	0	0	0	25	
<i>fragment</i>																	
<i>sea urchin</i>	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2	
<i>fragment</i>																	
<i>echinoderm spine</i>	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3	
<i>barnacle</i>	3	10	8	14	15	11	6	6	4	3	2	6	8	7	7	110	
<i>decapod fragment</i>	0	2	0	0	0	2	0	0	0	0	0	2	0	0	0	6	
<i>fish otolith?</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
<i>fish vertebra</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>wood</i>	0	0	0	0	0	1	0	1	0	0	0	1	0	1	1	5	

## Core PEN-91-3

Species abundance data for samples in core PEN-91-3 (water depth=19 m). See core PER-93-3 for information on how species were counted and on environmental and substrate abbreviations.

Species	Sample depth (cm)					total	environmental range (substrate)
	362	367	372	377	382		
<b>BIVALVIA</b>							
<i>Nucula proxima</i>	1	0	0	0	0	1	I-Sh (M)
<i>Nuculana acuta</i>	1	0	0	0	0	1	Et-So (M)
<i>Anadara transversa</i>	2	1	2	2		7	Em-Sh (S)
<i>Glycymeris</i> cf. <i>G. undata</i>	0	0	0	0	1	1	So-Sh
<i>Argopecten gibbus</i>	1	5	6	12	0	24	So-Sh (S)
<i>Anomia simplex</i>	1	8	13	8	5	35	Em-So (G)
<i>Plicatula gibbosa</i>	0	0	0	1	1	2	So-Sh (G)
<i>Lucina radians</i>	0	1	3	10	4	18	So-Sh
<i>Crassinella lunulata</i>	2	1	0	0	0	3	I-Sh (G)
<i>Pleuromeris tridentata</i>	1	9	6	6	0	22	So-Sh
<i>Pteromeris perplana</i>	0	0	0	0	1	1	So-Sh
<i>Laevicardium pictum</i>	1	1	2	1	0	5	Sh
<i>Trachycardium</i> sp.	0	0	1	0	0	1	
<i>Chama macrophylla</i>	1	0	0	0	0	1	Sh (G)
<i>Arcinella cornuta</i>	0	0	0	0	1	1	So-Sh (G)
<i>Ervilia concentrica</i>	3	8	4	0	0	15	Em-So (S)
<i>Tellina listeri</i>	0	0	0	2	0	2	So-Sh
<i>Tellina</i> sp.	0	1	2	0	0	3	
<i>Strigilla miniabilis</i>	0	2	4	0	1	7	So (S)
<i>Macrocallista maculata</i>	5	8	5	4	3	25	So-Sh (S)
<i>Chione cancellata</i>	0	3	9	21	5	38	Em-Sh (S)
<i>C. intapurplea</i>	9	8	21	10	14	62	So-Sh (S)
<i>C. latilirata</i>	0	0	0	1	0	1	Sh
<i>Corbula operculata</i>	1	1	0	0	0	2	Sh (M)
<b>GASTROPODA</b>							
<i>Lunella acropora</i>	1	1	1	1	0	4	So
<i>Crepidula fornicata</i>	0	3	2	1	0	6	Em-Sh (G)
<i>Natica canrena</i>	0	0	0	1	0	1	So-Sh (M/S)
<i>Oliva sayana</i>	0	0	0	0	3	3	Em-Sh (S)
<i>Olivella floralia</i>	3	0	0	0	0	3	L-So (S)
<i>O. minuta</i>	1	1	2	1	2	7	I (S)
<i>Conus steamsi</i>	0	0	1	0	0	1	So-Sh (S)
<b>OTHER</b>							
sortid foraminifera	46	56	10	13	7	132	L-Sh (S)
<i>Lithothamnion</i>	15	15	10	0	0	40	
cupularid bryozoan	3	1	5	10	1	20	I-Sh (S)
sand dollar fragment	1	1	3	1	2	8	
barnacle	2	4	7	1	1	15	
decapod fragment	1	0	0	0	0	1	
serpulid worm	0	0	2	0	0	2	
wood	0	0	1	0	0	1	

## Core PEN-91-5

Species abundance data for samples in core PEN-91-5 (water depth=21 m). See core PER-93-3 for information on how species are counted and on environmental and substrate abbreviations.

Species	Sample depth (cm)												
	350	355	360	365	370	375	380	385	390	395	400	405	410
<b>BIVALVIA</b>													
<i>Anadara transversa</i>	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Glycymeris</i> cf. <i>G. undata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ostrea equestris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Argopecten gibbus</i>	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Anomia simplex</i>	1	2	1	0	0	1	2	0	1	0	2	1	5
<i>Linga pennsylvanica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Divaricella quadrisulcata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Lucina radians</i>	0	0	0	4	0	0	0	1	0	0	0	0	0
<i>Crassinella lunulata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pleuromeris tridentata</i>	2	0	2	0	3	1	2	0	2	1	1	1	2
<i>Pteromeris perplana</i>	0	0	0	0	0	0	0	0	0	0	0	2	1
<i>Laevicardium pictum</i>	0	0	0	0	0	0	1	0	0	1	0	0	0
<i>Laevicardium mortoni</i>	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ervilia concentrica</i>	1	0	0	0	0	0	1	5	0	0	0	0	1
<i>Tellina listeri</i>	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Tellina</i> sp.	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Strigilla micabilis</i>	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Macrocallista maculata</i>	4	2	1	1	0	2	2	1	3	1	0	4	2
<i>Chione cancellata</i>	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>C. intapurea</i>	0	2	0	0	1	2	3	0	0	1	0	0	2
<i>Chione</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corbula operculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Verticordia ornata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>GASTROPODA</b>													
<i>Caecum cooperi</i>	0	0	2	0	0	0	0	1	0	0	0	0	0
<i>Turritella actopora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepidula fornicata</i>	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>C. convexa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polinices duplicatus</i>	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Melanella conoidea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Niso aeglees</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oliva sayana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Olivella floralia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marginella aureocincta</i>	0	0	0	0	0	0	0	0	0	1	2	0	0
<i>Cresis acicula</i>	0	0	0	0	0	0	1	0	0	0	0	0	0
<b>SCAPHOPODA</b>													
<i>Cadulus</i> cf. <i>C. quadridentatus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadulus?</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0



Species	Sample depth (cm)													
	350	355	360	365	370	375	380	385	390	395	400	405	410	
OTHER														
encrusting	0	0	9	0	0	0	0	0	0	0	0	0	0	
foraminifera														
soritid foraminifera	15	11	0	0	0	0	11	12	12	19	14	19	22	
Lithothamnion	0	0	1	1	0	2	0	0	0	0	1	0	2	
cupularid bryozoan	13	16	16	14	18	20	11	19	13	19	21	28	28	
encrusting bryozoan	0	0	2	0	0	0	1	2	0	1	0	0	0	
sand dollar fragment	0	0	0	0	0	0	0	0	0	1	0	0	1	
sea urchin fragment	0	0	0	0	0	0	0	0	0	0	0	0	0	
echinoderm spine	0	0	0	0	0	0	0	0	0	0	0	1	1	
barnacle	0	0	9	0	0	0	0	0	0	0	1	0	1	
decapod fragment	0	0	0	0	0	0	0	0	0	0	0	0	0	
serpulid worm	0	0	4	10	10	8	10	6	0	0	0	0	0	
wood	0	0	0	0	0	0	0	0	1	0	0	0	2	

Species	Sample depth (cm) (cont.)									total	environmental range (substrate)
	415	420	425	430	435	440	445	450	455		
BIVALVIA											
<u>Anadara transversa</u>	0	0	0	1	0	1	0	0	0	4	Em-Sh (S)
<u>Glycymeris</u> cf. <u>G.</u> <u>undata</u>	1	0	0	1	0	0	0	0	0	2	So-Sh
<u>Ostrea equestris</u>	0	0	0	0	0	0	0	0	1	1	Em-I (G)
<u>Argopecten gibbus</u>	0	0	0	0	2	0	3	1	6	13	So-Sh (S)
<u>Anomia simplex</u>	1	2	1	0	0	2	1	5	7	35	Em-So (G)
<u>Linga pennsylvanica</u>	0	0	0	0	0	0	0	1	2	4	So-Sh
<u>Divaricella</u> <u>quadrisulcata</u>	0	0	0	0	0	0	0	0	0	1	Sh (S)
<u>Lucina radians</u>	0	1	0	0	0	0	0	2	1	9	So-Sh
<u>Crassinella lunulata</u>	0	0	0	0	0	0	1	0	0	2	I-Sh (G)
<u>Pleuromeris</u> <u>tridentata</u>	3	3	3	5	2	1	4	3	2	43	So-Sh
<u>Pteromeris perplana</u>	0	1	0	1	0	1	0	0	0	6	So-Sh
<u>Laevicardium</u> <u>pictum</u>	0	0	0	0	0	0	0	0	1	3	Sh
<u>Laevicardium</u> <u>mortoni</u>	0	0	0	0	0	0	0	0	0	1	Em-I (M/S)
<u>Ervillea concentrica</u>	0	0	1	0	1	1	2	0	1	14	Em-So (S)
<u>Tellina listeri</u>	1	0	0	0	0	0	2	0	0	4	So-Sh
<u>Tellina</u> sp.	0	0	0	0	1	0	0	0	0	2	
<u>Strigilla miniabilis</u>	0	0	0	0	0	0	0	0	0	1	So (S)
<u>Macrocallista</u> <u>maculata</u>	0	1	2	1	4	4	3	3	2	43	So-Sh (S)
<u>Chione cancellata</u>	0	0	0	0	0	1	1	0	0	4	Em-Sh (S)
<u>C. intapurpurea</u>	1	0	0	1	0	1	0	2	1	17	So-Sh (S)
<u>Chione</u> sp.	0	3	0	0	0	0	0	0	0	3	
<u>Corbula operculata</u>	0	0	0	0	2	1	0	0	0	4	Sh (M)
<u>Vorticordia ornata</u>	0	0	0	0	1	0	0	1	0	2	Sh (S)
GASTROPODA											
<u>Caecum cooperi</u>	1	0	0	0	0	0	0	0	0	4	So (S)
<u>Turritella acropora</u>	0	0	0	0	0	1	0	0	0	1	So
<u>Crepidula fornicata</u>	0	1	0	0	1	0	0	1	0	5	Em-Sh (G)
<u>C. convexa</u>	0	1	0	0	0	0	0	0	0	1	Em-Sh (G)
<u>Polinices duplicatus</u>	0	0	1	0	0	0	0	1	0	4	Em-Sh (S)
<u>Melanella conoidea</u>	1	0	0	0	0	0	0	0	0	1	
<u>Niso aeglees</u>	0	0	0	0	0	0	1	0	0	1	Em-Sh
<u>Oliva savana</u>	0	0	0	0	0	0	0	1	1	3	Em-Sh (S)

Species	Sample depth (cm) (cont.)									total	environmental range (substrate)
	415	420	425	430	435	440	445	450	455		
<u>Olivella floralia</u>	0	0	0	0	0	0	0	1	0	1	L-So (S)
<u>Marginella</u>	0	0	0	0	0	0	0	0	0	3	So-Sh (S)
<u>aureocincta</u>											
<u>Creseis acicula</u>	0	0	0	0	0	0	0	0	0	1	pelagic
SCAPHOPODA											
<u>Cadulus</u> cf. <u>C.</u>	0	0	0	0	0	0	0	0	0	1	So-Sh
<u>quadridentatus</u>											
<u>Cadulus?</u> sp.	0	0	0	0	1	1	0	0	0	2	
OTHER											
encrusting	0	0	0	0	0	0	0	0	0	9	
foraminifera											
larger foraminifera	17	17	16	12	15	2	7	3	2	226	L-Sh (S)
<u>Lithothamnion</u>	0	0	0	0	0	0	0	0	0	7	
cupularid bryozoan	13	27	22	26	20	14	12	2	13	385	I-Sh (S)
encrusting bryozoan	0	0	0	0	0	0	0	0	0	6	
sand dollar fragment	1	0	0	1	0	0	0	1	3	8	
sea urchin fragment	0	0	0	1	0	0	0	0	0	1	
echinoderm spine	0	0	0	0	0	0	0	0	0	2	
barnacle	1	0	0	0	0	1	0	2	1	16	
decapod fragment	0	1	2	0	0	0	0	0	0	3	
serpulid worm	0	0	0	0	0	0	0	0	0	48	
wood	3	0	0	1	0	0	0	0	0	7	

## Core PEN-91-11

Species abundance data for samples in core PEN-91-11 (water depth=32 m). See core PER-93-3 for information on how species were counted and on environmental and substrate abbreviations.

Species	Sample depth (cm)																	total	environmental range (substrate)
	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400		
<b>BIVALVIA</b>																			
<i>Nucula</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1-Sh (M)
<i>proxima</i>																			
<i>Nuculana acuta</i>	0	1	0	1	2	0	0	1	1	1	1	3	4	6	0	10	7	38	Er-So (M)
<i>Anadara</i>	0	0	1	0	0	0	0	1	0	1	1	2	2	2	1	1	4	16	Em-Sh (S)
<i>transversa</i>																			
<i>Glycymeris</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	So (S)
<i>pectinata</i>																			
<i>G. undata</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	So-Sh
<i>Argopecten</i>	0	0	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	9	So-Sh (S)
<i>gibbus</i>																			
<i>Pecten</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	So-Sh (S)
<i>ravensli</i>																			
<i>Anomia</i>	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	3	Em-So (G)
<i>simplex</i>																			
<i>Linga</i>	1	0	1	0	3	0	0	0	0	0	0	0	0	1	0	0	1	7	Em-Sh (S)
<i>amiantus</i>																			
<i>Parvulicina</i>	5	0	4	6	0	0	0	1	8	10	10	11	14	24	3	17	18	131	Er-Sh (M)
<i>multilineata</i>																			
<i>Lacina pascuala</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	3	Sh
<i>L. radians</i>	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	4	So-Sh
<i>Codakia</i>	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	So-Sh (S)
<i>orbiculata</i>																			
<i>Thyasira</i> sp.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
<i>Crassinella</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	1	0	6	1-Sh (G)
<i>lunulata</i>																			
<i>Laevicardium</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	Sh
<i>pictum</i>																			
<i>Dinocardium</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	3	1-Sh (S)
<i>robustum</i>																			
<i>Dinocardium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
sp.																			
<i>Mulinia</i>	0	0	0	0	0	0	0	0	0	0	1	3	1	0	2	3	0	10	Er-So (M/S)
<i>lateralis</i>																			
<i>Ervilia</i>	6	1	3	7	9	9	4	7	0	0	0	0	0	2	0	0	0	48	Em-So (S)
<i>concentrica</i>																			
<i>Tellina</i> sp.	2	1	1	0	11	0	1	0	0	0	0	0	0	1	0	5	0	22	
<i>Stigella</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	3	So (S)
<i>mirabilis</i>																			
<i>Abra aequalis</i>	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	4	Em-Sh (M)
<i>Tellina divisa</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	3	Em-So (S)
<i>Tagelus</i> sp.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
<i>Macrocallista</i>	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	4	1-So (S)
<i>nimbosa</i>																			
<i>M. maculata</i>	20	10	11	14	28	6	11	3	0	0	1	2	1	0	0	0	0	107	So-Sh (S)
<i>Macrocallista</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
sp.																			
<i>Chione</i>	3	1	1	4	1	9	7	1	2	3	17	20	18	29	7	28	25	176	Em-Sh (S)
<i>cancellata</i>																			
<i>C. interrupta</i>	1	0	0	2	4	1	1	0	0	0	0	0	0	0	1	0	1	11	So-Sh (S)

Species	Sample depth (cm)																	total	environmental range (substrate)
	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400		
<i>Dosinia elegans</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	So-Sh (M/S)
<i>Corbula</i>	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	Sh (M)
<i>operculata</i>																			
<i>C. caribaea</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	Em-Sh (M)
<i>C. contracta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	Em-L (S)
<i>Vericordia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	Sh (S)
<i>ornata</i>																			
GASTROPODA																			
<i>Turritella</i>	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	So
<i>acropora</i>																			
<i>Turritella</i> sp.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Crepidula</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	Em-Sh (G)
<i>formicata</i>																			
<i>C. convexa</i>	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0	0	4	Em-Sh (G)
<i>C. plana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	Et-Sh (G)
<i>Crepidula</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	
<i>Oliva sayana</i>	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	6	Em-Sh (S)
<i>Olivella floralia</i>	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	L-So (S)
<i>Olivella</i> sp.	0	0	3	0	0	0	0	1	0	0	0	3	0	2	0	0	0	9	
<i>Marginella</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	So-Sh (S)
<i>aureocincta</i>																			
<i>M. apicina</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	I (S)
<i>Marginella</i> sp.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Cancellaria</i>	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	3	So-Sh (S)
<i>reticulata</i>																			
<i>Conus steamsi</i>	1	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	5	So-Sh (S)
<i>Terebra</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	So-Sh (M/S)
<i>dislocata</i>																			
<i>Bulla striata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	L-I (S)
<i>Acteocina</i>	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	Et-L (M/S)
<i>canaliculata</i>																			
<i>Dentalium</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<i>Cadulus quad-</i>	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	So-Sh
<i>ridentatus</i>																			
<i>Cadulus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
<i>sonitid</i>	18	6	7	10	48	27	16	20	0	0	3	0	4	1	0	0	0	160	L-Sh (S)
<i>foraminifera</i>																			
<i>Lithothamnion</i>	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3	
<i>Oculina diffusa</i>	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<i>cupularid</i>	23	7	1	4	97	18	12	1	0	0	0	1	0	0	0	0	0	164	Sh (S)
<i>bryozoan</i>																			
<i>encrusting</i>	0	0	0	0	4	4	0	1	0	0	0	0	0	0	0	0	0	9	
<i>bryozoan</i>																			
<i>sand dollar</i>	0	0	0	1	3	1	1	0	0	0	0	0	1	0	0	0	0	7	
<i>fragment</i>																			
<i>echinoderm</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	
<i>spine</i>																			
<i>barnacle</i>	1	0	0	0	0	0	0	0	0	1	2	1	2	2	55	1	23	88	
<i>decapod</i>	0	0	0	1	0	2	0	0	0	0	0	0	1	0	0	0	0	4	
<i>fragment</i>																			
<i>serpulid worm</i>	0	1	0	0	2	4	1	0	0	0	0	1	1	0	16	0	14	40	
<i>wood</i>	0	3	3	4	4	1	0	0	0	0	0	0	0	0	0	0	0	15	

## Core PEN-91-12

Species abundance data for samples in core PEN-91-12 (water depth=29 m). See core PER-93-3 for information on how species were counted and on environmental and substrate abbreviations.

Species	Sample depth (cm)								total	environmental range (substrate)
	405	410	415	420	425	430	435	440		
<b>BIVALVIA</b>										
<i>Anadara transversa</i>	3	0	0	1	0	1	1	0	6	Em-Sh (S)
<i>Glycymeris pectinata</i>	1	1	0	0	0	0	0	0	2	So (S)
<i>Glycymeris</i> cf. <i>G. undata</i>	6	0	1	1	0	0	0	0	8	So-Sh
<i>Ostrea equestris</i>	3	0	0	4	0	0	0	0	7	Em-I (G)
<i>Argopecten gibbus</i>	1	5	2	6	0	0	0	1	15	So-Sh (S)
<i>Anomia simplex</i>	26	13	23	13	1	1	0	0	77	Em-So (G)
<i>Linga amiantus</i>	1	0	0	0	0	0	0	0	1	Em-Sh (S)
<i>Parviculina multilineata</i>	16	8	1	1	2	0	0	0	28	Et-Sh (M)
<i>Lucina pectinata</i>	0	1	1	0	0	0	0	0	2	Em-I (S)
<i>L. nassula</i>	4	0	0	0	1	0	0	0	5	Sh
<i>L. radians</i>	0	0	0	0	0	0	1	1	2	So-Sh
<i>Anodonta alba</i>	1	0	0	0	0	0	0	0	1	Em-I (S)
<i>Pseudomiltha floridana</i>	0	0	2	0	0	0	0	0	2	Em-I (S)
<i>Eucrassitella speciosa</i>	0	0	0	1	1	2	0	0	4	I-Sh (M/S)
<i>Carditamera floridana</i>	6	2	1	1	1	0	0	0	11	Em-So (S)
<i>Pleuromeris tridentata</i>	0	0	0	0	0	1	0	0	1	So-Sh
<i>Laevicardium pictum</i>	4	1	2	1	0	0	0	1	9	Sh
<i>Laevicardium mortoni</i>	0	0	0	1	0	0	0	0	1	Em-I (M/S)
<i>Dinocardium</i> sp.	0	0	0	0	0	1	1	0	2	
<i>Mulinia lateralis</i>	0	0	0	0	1	0	1	0	2	Et-So (M/S)
<i>Ervilia concentrica</i>	92	20	1	2	1	0	0	0	116	Em-So (S)
<i>Tellina lineata</i> ?	0	0	1	0	0	0	0	0	1	So-Sh (S)
<i>T. aequistriata</i>	0	0	2	0	0	0	0	0	2	So (S)
<i>Tellina</i> sp.	3	0	0	0	0	0	0	0	3	
<i>Tellidora cristata</i>	0	0	0	1	0	0	0	0	1	Em-I (S)
<i>Macoma constricta</i>	0	1	0	0	0	0	0	0	1	Em (S)
<i>Strigilla mirabilis</i>	12	5	1	1	0	0	1	0	20	So (S)
<i>Tagelus divisus</i>	0	0	0	0	1	0	0	2	3	Em-So (S)
<i>Donax variabilis</i>	0	1	0	0	0	0	0	0	1	So (S)
<i>Polymesoda maritima</i>	0	0	0	0	1	0	0	0	1	Em-I (M/S)
<i>Macrocallista nimbosa</i>	20	33	44	21	22	11	5	2	158	I-So (S)
<i>M. maculata</i>	19	8	3	2	3	1	1	0	37	So-Sh (S)
<i>Chione cancellata</i>	8	9	6	7	13	7	3	3	56	Em-Sh (S)
<i>C. intapurplea</i>	2	3	0	0	0	0	0	0	5	So-Sh (S)
<i>C. latirata</i>	0	0	2	3	0	0	1	0	6	Sh
<i>Anomalocardia auberiana</i>	0	1	2	0	0	0	0	1	4	L-I (S)
<i>Corbula caribaea</i>	1	0	0	0	0	0	0	0	1	Em-Sh (M)
<i>Corbula</i> cf. <i>C. contracta</i>	0	1	0	0	0	0	0	0	1	Em-L (S)
<b>GASTROPODA</b>										
<i>Turnitella acropora</i>	0	1	0	0	0	0	0	0	1	So
<i>Crepidula fornicata</i>	2	0	0	4	0	0	0	0	6	Em-Sh (G)
<i>C. convexa</i>	2	1	0	0	0	0	0	0	3	Em-Sh (G)
<i>C. plana</i>	3	5	0	0	0	0	0	0	8	Et-Sh (G)
<i>Cerithium muscarum</i>	1	0	0	0	1	0	0	0	2	Em (S)
<i>Diastoma varium</i> ?	1	0	0	0	0	0	0	0	1	Em-I (S)
<i>Polinices duplicatus</i>	4	1	0	1	0	0	0	0	6	Em-Sh (S)

Species	Sample depth (cm)							total	environmental range (substrate)
	405	410	415	420	425	430	435		
<i>Natica canrena</i>	1	0	0	0	0	0	0	1	So-Sh (M/S)
<i>Anachis obesa</i>	1	0	0	0	0	0	0	1	Er-So (S/G)
<i>Busycon contrarium</i>	0	0	0	1	0	0	0	1	Em-Sh (S)
<i>Oliva sayana</i>	0	0	1	3	2	0	0	7	Em-Sh (S)
<i>Olivella pusilla</i>	6	8	0	1	0	0	0	15	So (S)
<i>O. floralia</i>	6	0	0	0	0	0	0	6	L-So (S)
<i>Marginella aureocincta</i>	2	0	0	0	0	0	0	2	So-Sh (S)
<i>M. apicina</i>	1	0	0	0	0	0	0	1	I (S)
<i>Conus stearnsi</i>	4	2	0	1	3	1	0	11	So-Sh (S)
<i>Bulla</i> cf. <i>B. striata</i>	1	0	0	0	0	0	0	1	L-I (S)
SCAPHOPODA									
<i>Dentalium disparile</i>	0	0	0	0	1	0	0	1	So
<i>Cadulus</i> cf. <i>C. carolinensis</i>	2	0	0	0	0	0	0	2	Em-Sh
<i>Cadulus</i> cf. <i>C. quadridentatus</i>	1	0	0	0	0	0	0	1	So-Sh
OTHER									
<i>Lithothamnion</i>	0	1	0	0	0	0	0	1	
<i>Oculina diffusa</i>	2	2	0	0	0	0	0	4	
cupularid bryozoan	19	3	1	0	0	0	0	23	I-Sh (S)
encrusting bryozoan	1	0	0	3	5	1	0	10	
sand dollar fragment	10	5	2	2	1	0	2	22	
barnacle	3	13	1	5	1	0	0	23	
decapod fragment	4	0	2	0	1	0	0	7	
serpulid worm	0	0	1	3	2	3	0	9	
wood	11	7	1	4	5	0	1	29	

## Core PEN-91-13

Species abundance data for samples in core PEN-91-13 (water depth=31 m). See core PER-93-3 for information on how species were counted and on environmental and substrate abbreviations.

Species	Sample depth (cm)								total	environmental range (substrate)
	360	365	370	375	380	385	390	393		
<b>BIVALVIA</b>										
<i>Nuculana acuta</i>	0	1	0	0	0	1	0	0	2	Et-So (M)
<i>Anadara transversa</i>	0	0	0	0	0	0	0	1	1	Em-Sh (S)
<i>Argopecten gibbus</i>	4	1	1	2	1	0	0	0	9	So-Sh (S)
<i>Pecten raveneli</i>	0	0	0	0	1	0	0	0	1	So-Sh (S)
<i>Anomia simplex</i>	2	1	1	1	0	0	0	0	5	Em-So (G)
<i>Linga amiantus</i>	0	0	0	0	0	0	0	1	1	Em-Sh (S)
<i>L. pennsylvanica</i>	1	0	2	2	0	0	0	1	6	So-Sh
<i>Parvilucina multilineata</i>	2	0	0	0	0	0	0	2	4	Et-Sh (M)
<i>Lucina nassula</i>	1	1	1	0	0	0	0	1	4	Sh
<i>L. radians</i>	1	0	0	2	0	0	0	0	3	So-Sh
<i>Thyasira gouldii</i>	0	0	1	0	0	2	0	0	3	
<i>Carditamera floridana</i>	0	0	0	1	0	0	0	0	1	Em-So (S)
<i>Laevicardium pictum</i>	0	0	0	0	0	0	1	0	1	Sh
<i>L. laevigatum</i>	5	3	0	0	5	3	1	0	17	Sh (S)
<i>Ervilia concentrica</i>	3	6	1	4	5	5	18	9	51	Em-So (S)
<i>Tellina lineata?</i>	0	0	0	0	0	1	0	0	1	So-Sh (S)
<i>Tellina cf. T. versicolor</i>	10	4	3	0	5	2	8	0	32	Em-Sh (M)
<i>Tellina sp.</i>	0	0	0	0	0	0	0	2	2	
<i>Strigilla mirabilis</i>	1	1	0	0	0	1	0	2	5	So (S)
<i>Macrocallista maculata</i>	19	28	8	9	18	14	29	19	144	So-Sh (S)
<i>Chione cancellata</i>	0	1	0	0	0	0	0	1	2	Em-Sh (S)
<i>C. intapurpurea</i>	0	0	0	0	0	1	0	0	1	So-Sh (S)
<i>Anomalocardia auberiana</i>	0	0	0	1	0	0	0	0	1	L-I (S)
<i>Corbula operculata</i>	2	3	0	0	0	0	1	1	7	Sh (M)
<b>GASTROPODA</b>										
<i>Turritella acropora</i>	0	0	0	1	0	0	0	0	1	So
<i>Strombus alatus</i>	0	1	0	2	0	2	1	3	6	So-Sh (S)
<i>Crepidula fornicata</i>	1	0	0	0	0	0	0	1	2	Em-Sh (G)
<i>C. convexa</i>	0	0	0	0	0	0	0	1	1	Em-Sh (G)
<i>C. plana</i>	0	0	0	0	0	0	2	1	3	Et-Sh (G)
<i>Polinices duplicatus</i>	0	0	1	0	1	1	1	3	7	Em-Sh (S)
<i>Niso aeglees</i>	0	1	0	0	0	0	0	0	1	Em-Sh
<i>Nassarius albus</i>	0	1	0	0	0	0	0	0	1	So-Sh
<i>Oliva sayana</i>	0	0	0	2	2	2	3	13	22	Em-Sh (S)
<i>Olivella pusilla</i>	0	1	0	1	0	0	0	1	3	So (S)
<i>O. floralia</i>	2	1	1	1	0	1	4	3	13	L-So (S)
<i>Marginella apicina</i>	0	0	0	0	0	0	0	1	1	I (S)
<i>Cancellaria reticulata</i>	0	0	0	0	0	0	1	1	2	So-Sh (S)
<i>Conus stearnsi</i>	0	0	1	1	0	0	0	2	4	So-Sh (S)
<i>Cerodrillia clappi</i>	0	0	0	0	0	0	0	1	1	So
<i>Terebra dislocata</i>	1	2	0	0	0	0	0	2	5	So-Sh (M/S)
<i>Bulla cf. B. striata</i>	0	0	1	0	0	0	0	0	1	L-I (S)
<i>Acteocina canaliculata</i>	0	0	0	1	0	0	0	0	1	Et-L (M/S)
<i>Cavolina tridentata</i>	2	0	0	0	1	0	0	1	4	pelagic

Species	Sample depth (cm)								total	envrionmental range (substrate)
	360	365	370	375	380	385	390	393		
SCAPHOPODA										
<u>Detnallium eborium</u>	0	2	0	0	0	0	0	0	2	So-Sh (S)
<u>Cadulus cf. C.</u> <u>carolinensis</u>	0	0	0	0	0	0	3	1	4	Em-Sh
<u>Cadulus cf. C.</u> <u>quadridentatus</u>	2	1	0	1	0	0	1	0	5	So-Sh
<u>Cadulus sp.</u>	0	2	0	0	0	0	0	0	2	
OTHER										
sortid foraminifera	183	220	73	35	119	83	58	69	840	L-Sh (S)
cupularid bryozoan	6	6	5	13	1	3	1	3	38	l-Sh (S)
encrusting bryozoan	1	0	0	0	0	0	0	2	3	
sand dollar fragment	0	2	1	0	4	0	1	2	10	
echinoderm spine	0	1	0	0	0	0	1	0	2	
barnacle	1	0	1	2	0	2	1	2	9	
decapod fragment	2	0	2	1	1	2	0	1	9	
wood	1	3	0	0	0	0	0	1	5	



## Core ALA-91-15

Species abundance data for samples in core ALA-91-15 (water depth=36 m). See core PER-93-3 for information on how species were counted and on environmental and substrate abbreviations.

Species	Sample depth (cm) 188-200	environmental range (substrate)
<b>BIVALVIA</b>		
<u>Argopecten gibbus</u>	10	Sh (S)
<u>Anomia simplex</u>	1	Em-So (G)
<u>Linga pennsylvanica</u>	8	So-Sh
<u>Lucina nassula</u>	2	Sh
<u>L. radians</u>	7	So-Sh
<u>Divaricella quadrisulcata</u>	3	Sh (S)
<u>Laevicardium pictum</u>	5	Sh
<u>Mulinia lateralis</u>	1	Er-So (M/S)
<u>Erilia concentrica</u>	2	Em-So (S)
<u>Tellina aequistriata</u>	1	So (S)
<u>Tellina</u> sp.	3	
<u>Tagelus</u> sp.?	1	
<u>Macrocallista nimbosa</u>	3	I-So (S)
<u>M. maculata</u>	18	So-Sh (S)
<u>Chione intapurplea</u>	1	So-Sh (S)
<b>GASTROPODA</b>		
<u>Crepidula fornicata</u>	2	Em-Sh (G)
<u>Polinices duplicatus</u>	2	Em-Sh (S)
<u>Natica canrena</u>	1	So-Sh (M/S)
<u>Oliva sayana</u>	4	Em-Sh (S)
<u>Olivella</u> sp.	3	
<u>Cerodrillia ciappi</u>	1	So
<u>Terebra dislocata</u>	1	So-Sh (M/S)
<u>Turbonilla</u> spp.	2	
<b>OTHER</b>		
foraminifera	24	L-Sh (S)
cupularid bryozoan	11	I-Sh (S)
encrusting bryozoan	14	
sand dollar fragment	16	
barnacle	2	
decapod fragment	7	
serpulid worm	>16	

## Core ALA-91-16

Species abundance data for samples in core ALA-91-16 (water depth=35 m). See core PER-93-3 for information on how species are counted were on environmental and substrate abbreviations.

Species	Sample depth (cm)														total	environmental range (substrate)
	260	270	280	290	300	310	315	320	325	330	335	340	345	350		
BIVALVIA																
<i>Nucula proxima</i>	0	0	0	0	0	0	0	1	2	2	1	0	0	0	6	I-Sh (M)
<i>Nucula acuta</i>	0	0	2	1	1	3	2	9	4	7	5	3	0	1	38	Et-So (M)
<i>Nucula concentrica</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	Et-Sh (M)
<i>Anadara transversa</i>	1	1	1	0	1	5	7	16	11	4	4	5	3	0	59	Em-Sh (S)
<i>Glycymeris</i> sp.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
<i>Arina</i> sp.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
<i>Osrea equestris</i>	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	Em-I (G)
<i>Chlamys</i> sp.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
<i>Argopecten gibbus</i>	0	1	0	1	0	0	0	1	1	3	0	2	1	0	10	So-Sh (S)
<i>Argopecten?</i> sp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Lyropecten</i> sp.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Anomia simplex</i>	0	0	0	0	0	0	1	3	0	4	3	6	1	0	18	Em-So (G)
<i>Linga amianthus</i>	0	0	0	0	0	0	0	0	0	2	0	1	0	0	3	Em-Sh (S)
<i>L. pennsylvanica</i>	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	So-Sh
<i>Parvilucina multilineata</i>	2	1	1	6	8	11	23	52	49	49	24	13	8	10	257	Et-Sh (M)
<i>Lucina nasula</i>	0	0	0	0	0	0	1	1	1	0	4	0	1	0	8	Sh
<i>L. radians</i>	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	So-Sh
<i>Lucina</i> sp.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
<i>Divaricella quadrisulcata</i>	0	0	0	0	0	0	0	0	0	1	0	1	1	0	3	Sh (S)
<i>Thyasira gouldii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	
<i>Codakia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
<i>Diplodonta nucleiformis</i>	0	0	0	0	0	2	0	1	1	2	3	2	0	0	11	Sh
<i>Crassinella lunulata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	I-Sh (G)
<i>Carditamera floridana</i>	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	Em-So (S)
<i>Carditamera</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<i>Pleuromeris tridentata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	So-Sh
<i>Laevicardium pictum</i>	0	0	0	0	0	0	0	2	3	4	4	11	1	0	25	Sh
<i>Laevicardium</i> sp.	0	0	0	0	0	0	0	0	4	2	0	0	0	0	6	
<i>Dinocardium robustum</i>	0	0	0	0	0	0	0	2	0	0	0	0	2	1	5	I-Sh (S)
<i>Dinocardium</i> sp.	0	0	0	1	1	0	0	1	1	0	0	2	12	9	6	
<i>Macra</i> sp.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
<i>Mulinia lateralis</i>	1	3	3	8	17	22	45	124	111	128	101	97	61	33	754	Et-So (M/S)
<i>Ervilia concentrica</i>	7	11	15	10	27	34	55	146	117	112	51	35	17	17	654	Em-So (S)
<i>Tellina alternata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	Em-Sh (S)
<i>Tellina</i> sp.	2	1	3	4	3	4	14	22	7	12	4	0	1	2	79	
<i>Tellidora cristata</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	Em-I (S)
<i>Strigilla mirabilis</i>	0	0	0	0	1	4	2	10	4	8	10	10	5	2	56	So (S)
<i>Tagelus cf. T. divinus</i>	0	0	0	0	0	0	0	0	0	0	0	1	3	2	6	Em-So (S)
<i>Macrocallista nimbosa</i>	0	0	0	0	0	0	4	4	6	6	8	15	8	1	52	I-So (S)
<i>M. maculata</i>	0	0	0	3	7	11	11	36	32	28	17	18	15	5	183	So-Sh (S)
<i>Macrocallista</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<i>Chione cancellata</i>	0	1	0	0	0	2	0	3	0	4	1	2	4	1	18	Em-Sh (S)
<i>C. intapurpurea</i>	0	0	0	0	0	0	0	1	2	1	2	2	4	1	13	So-Sh (S)
<i>C. latilirata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	Sh

Species	Sample depth (cm)													total	environmental range (substrate)
	260	270	280	290	300	310	315	320	325	330	335	340	345	350	
<i>C. grus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1 I-Sh (S)
<i>Chione</i> sp.	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
<i>Dosinia elegans</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2 So-Sh (M/S)
<i>Dosinia</i> sp.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
<i>Parastarte triquetra</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1 So S
<i>Corbula operculata</i>	0	0	1	0	0	2	0	5	3	1	1	1	1	0	15 Sh (M)
<i>C. caribaea</i>	0	0	0	0	0	1	0	2	0	1	5	1	0	2	12 Em-Sh (M)
<i>Lyonsia arenosa</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1 So-Sh
GASTROPODA															
<i>Smaragdia viridis</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2 Et-Em (S)
<i>Turbonilla</i> sp.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Strombus alatus</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2 So-Sh (S)
<i>Crepidula fornicata</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2 Em-Sh (G)
<i>C. convexa</i>	0	0	0	0	2	0	1	1	4	1	0	0	0	0	9 Em-Sh (G)
<i>C. plana</i>	0	0	0	0	1	0	0	3	0	1	0	0	0	0	5 Et-Sh (G)
<i>Polinices duplicatus</i>	0	2	2	1	5	2	4	13	13	13	7	4	6	5	77 Em-Sh (S)
<i>Niso aegleus</i>	0	0	0	0	0	0	0	0	1	1	0	1	0	0	3 Em-Sh
<i>Bailya intricata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1 So-Sh
<i>Anachis obesa</i>	0	0	2	1	6	5	3	9	9	4	0	0	0	3	42 Et-So (S/G)
<i>Anachis</i> sp.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Nassarius albus</i>	0	0	0	0	0	0	0	0	0	2	2	0	0	0	4 So-Sh
<i>N. acutus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1 Et-So (M/S)
<i>Busycon</i> sp.	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
<i>Oliva savana</i>	0	0	0	1	4	2	2	11	5	3	8	9	0	9	54 Em-Sh (S)
<i>Olivella pusilla</i>	0	0	0	0	0	5	0	0	0	0	3	7	0	0	15 So (S)
<i>O. floralia</i>	0	0	0	3	7	0	11	45	52	34	32	8	4	6	202 L-So (S)
<i>O. minuta</i>	0	0	2	0	1	0	0	0	0	8	5	7	0	0	23 I (S)
<i>Olivella</i> sp.	3	0	0	0	0	7	3	8	0	1	0	0	1	0	23
<i>Marginella</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2 So-Sh (S)
<i>  aureocincta</i>															
<i>Cancellaria reticulata</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2 So-Sh (S)
<i>Conus steamsi</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2 So-Sh (S)
<i>Conus</i> sp.	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
<i>Cerodrillia clappi</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2 So
<i>Compsodrillia?</i> sp.	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Monilispira</i>	0	0	0	0	0	1	0	3	2	1	0	0	0	3	10 So (S)
<i>  leucocyma</i>															
<i>Cryptomus cecinella</i>	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3 L-Sh (S)
<i>Terebra dislocata</i>	0	0	0	0	0	0	0	0	1	2	2	1	2	0	8 So-Sh (M/S)
<i>Turbonilla incisa</i>	0	0	0	0	0	0	0	0	1	0	0	2	0	0	3 Em-So
<i>Bulla</i> cf. <i>B. striata</i>	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2 L-I (S)
<i>Acteocina canaliculata</i>	0	0	0	0	0	0	0	1	1	0	1	0	1	0	4 Et-L (M/S)
SCAPHODODA															
<i>Dentalium ebrium</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1 So-Sh (S)
<i>Cadulus</i> cf. <i>C. carolinensis</i>	0	0	0	0	0	2	0	1	2	4	0	3	0	0	12 Em-Sh
<i>Cadulus</i> sp.	0	0	0	1	1	0	0	0	0	1	0	0	0	0	3
OTHER															
sonitid foraminifera	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2 L-Sh (S)
<i>Oculina diffusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
cupularid bryozoan	0	0	0	0	0	0	2	11	0	8	0	0	3	0	24 I-Sh (S)
encrusting bryozoan	0	0	0	0	0	0	0	1	2	2	0	2	1	1	9
<i>Mellita</i> sp.	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
sand dollar fragment	0	0	0	0	0	0	2	6	0	6	1	0	0	0	15
barnacle	0	0	0	0	0	0	0	4	7	9	6	2	2	0	30
decapod fragment	0	0	0	0	0	0	0	3	2	4	5	2	0	1	17
wood	0	0	0	0	0	0	1	4	6	4	11	10	3	2	41

## **APPENDIX F. MICROFOSSIL SPECIES BY CORE**

Appendix F provides detailed microfossil data about ALA-91-16, PEN-91-11, and PEN-91-5. For additional information, please refer to Anderson et al. (1997) and McBride et al. (1996).

Table 1. Species list, cores ALA-91-16, PEN-91-11, and PEN-91-5.

<i>Ammonia parkinsoniana</i>	<i>Pyrgo striolata</i>
<i>Archaias angulatus</i>	<i>P. subsphaerica</i>
<i>Articulina lineata</i>	<i>P. williamsoni</i>
<i>A. mexicana</i>	<i>Pyrulina cylindroides</i>
<i>A. pacifica</i>	<i>Quinqueloculina agglutinans</i>
<i>A. sagra</i>	<i>Q. bicostata</i>
<i>A. spp.</i>	<i>Q. bradyana</i>
<i>Asterigina carinata</i>	<i>Q. candeiana</i>
<i>Bolivina lanceolata</i>	<i>Q. compia</i>
<i>B. lowmani</i>	<i>Q. costata</i>
<i>B. paula</i>	<i>Q. crassa subcuneata</i>
<i>B. subspinescens</i>	<i>Q. funafutiensis</i>
<i>B. translucens</i>	<i>Q. laevigata</i>
<i>Buccella hannai</i>	<i>Q. lamarckiana</i>
<i>Buliminella elegantissima</i>	<i>Q. parkeri occidentalis</i>
<i>Cancris oblonga</i>	<i>Q. poeyana</i>
<i>Cassidulina spp.</i>	<i>Q. polygona</i>
<i>Cibicides spp.</i>	<i>Q. sabulosa</i>
<i>Cornuspira sp.</i>	<i>Q. seminulum</i>
<i>Cymbaloporella atlantica</i>	<i>Q. tricarinata</i>
<i>Elphidium advenum</i>	<i>Q. vulgaris</i>
<i>E. discoideale</i>	<i>Q. spp.</i>
<i>E. galvestonense</i>	<i>Rectobolivina mayori</i>
<i>E. gunteri</i>	<i>Reophax spp.</i>
<i>E. mexicanum</i>	<i>Reussella atlantica</i>
<i>E. poeyanum</i>	<i>Rosalina floridana</i>
<i>E. spp.</i>	<i>Saccamina atlantica</i>
<i>Eponides antillarum</i>	<i>Scutuloris bocki</i>
<i>E. repandus</i>	<i>Siphonaperta horrida</i>
<i>Epistominella spp.</i>	<i>Spiroloculina arietina</i>
<i>Fursenkoina mexicana</i>	<i>S. planulata</i>
<i>Globulina caribaea</i>	<i>S. sp. 1</i>
<i>Guttulina australis</i>	<i>Textularia agglutinans</i>
<i>Hanzawaia concentrica</i>	<i>T. conica</i>
<i>Haynesina germanica</i>	<i>T. mayori</i>
<i>Homotrema rubra</i>	<i>T. sp. 1</i>
<i>Lagena semistriata</i>	<i>Trifarina bella</i>
<i>L. spp.</i>	<i>Triloculina gracilis</i>
<i>Lenticulina spp.</i>	<i>T. tricarinata</i>
<i>Miliolinella circularis</i>	<i>T. trigonula</i>
<i>M. suborbicularis</i>	<i>T. sp. 1</i>
<i>Nodobacularella atlantica</i>	<i>T. sp. 2</i>
<i>Nodosaria spp.</i>	<i>T. sp. 3</i>
<i>Nonionella atlantica</i>	<i>Trochammina advena</i>
<i>Peneroplis proteus</i>	<i>Truncatulina spp.</i>
<i>Planorbulina mediterraneensis</i>	<i>Valvulineria araucana</i>
<i>Planulina exorna</i>	<i>Valvulineria sp. 1</i>
<i>Polymorphina spp.</i>	<i>Wiesnerella auriculata</i>
<i>Pullenia bulloides</i>	

Table 2 (p. 1 of 5)

ALA-91-16

ALA-91-16, #		Strat.D (cm)	CLAY-SILT%	Am.park	Arch.angul.	Art.mex.	Art.pac.
1	1	5	4	1.2	1.5	0.3	0.0
2	2	49	4	0.0	7.3	0.0	0.0
3	3	95	3	1.4	9.1	0.3	0.0
4	4	150	2	3.4	5.8	1.9	0.0
5	5	195	4	7.1	5.1	2.0	0.4
6	6	230	4	2.3	3.9	0.3	0.0
7	7	266	3	3.6	8.7	2.2	0.0
8	8	290	3	5.4	5.0	0.0	0.0
9	9	320	5	6.8	2.8	1.7	0.0
10	10	335	5	3.6	6.3	0.9	0.0
11	11	350	17	10.5	1.2	0.0	0.0
12	12	357	32	10.4	1.9	0.0	0.0
13	13	374	17	17.4	0.0	4.5	0.0
14	14, barren	393	45				
	Art.sag.	Art.spp.	Ast.carin.	Bol.lance.	Bol.low.	Bol.paula	Bol.subspin.
1	0.3	0.3	11.0	0.0	0.0	0.0	0.0
2	0.0	0.0	8.9	0.0	0.0	0.0	0.0
3	0.0	0.3	8.0	0.0	0.0	0.0	0.0
4	0.0	0.0	7.7	0.0	0.0	0.0	0.0
5	0.0	5.1	11.5	0.0	0.0	0.0	0.0
6	0.0	0.5	4.9	0.8	0.3	0.5	0.3
7	0.0	0.0	4.7	0.0	0.0	0.0	0.0
8	0.0	0.7	7.5	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	11.3	0.0	0.0	0.0	0.0
11	0.0	0.6	1.2	0.0	0.0	0.0	0.0
12	0.0	1.9	2.8	0.0	0.9	0.0	0.0
13	0.0	0.0	2.0	0.0	0.0	0.0	0.0
14							
	Bol.trans.	Buc.hannai	Bulim.eleg.	Canc.oblonga	Cass.spp.	Cib.spp.	Cymbal.atl.
1	0.0	0.3	0.0	0.0	0.3	0.0	2.1
2	0.0	0.0	0.0	0.3	0.0	0.0	0.7
3	0.0	0.0	0.0	0.0	0.0	0.9	3.4
4	0.0	0.0	0.0	0.0	0.0	0.8	3.4
5	0.0	0.0	0.0	0.0	0.8	0.0	0.0
6	0.0	0.5	0.5	0.0	0.0	1.3	9.6
7	0.0	0.0	0.4	0.0	0.4	0.7	5.1
8	0.0	0.0	0.0	0.0	0.0	0.7	7.1
9	0.0	0.0	0.6	0.0	0.0	0.6	4.0
10	0.0	0.9	0.0	0.0	0.0	0.5	1.8
11	0.0	0.6	0.0	0.0	0.0	0.0	6.8
12	0.0	0.0	0.0	0.0	0.0	0.0	3.8
13	0.5	0.0	0.5	0.0	0.5	0.5	7.0
14							

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	Eiph.adv.	Eiph.disc.	Eiph.galv.	Eiph.gunt.	Eiph.mex.	Eiph.poey.	Eiph.spp.
1	0.6	0.0	0.6	0.0	0.0	6.9	0.0
2	0.7	0.0	1.3	0.0	1.3	4.3	0.0
3	0.0	0.0	0.3	0.0	2.6	2.0	0.0
4	0.0	0.5	0.0	0.8	0.8	2.6	0.0
5	0.0	0.0	0.0	0.0	0.0	2.4	0.0
6	0.0	0.3	0.0	0.0	1.8	4.1	0.0
7	0.0	0.4	0.0	0.0	1.1	3.6	0.0
8	0.4	0.0	0.0	0.7	3.9	2.1	0.0
9	1.7	0.0	0.0	0.0	1.7	6.3	0.6
10	0.0	0.5	0.9	0.0	1.4	6.8	0.0
11	0.0	0.0	0.0	0.0	6.8	4.3	0.0
12	0.0	1.9	0.0	0.0	7.5	8.5	0.0
13	0.0	0.5	0.0	0.0	0.0	12.4	8.0
14							
	Epon.antil.	Epopn.rep.	Epist.spp.	Fursenk.mex.	Globul.carib.	Guttul.aust.	Hanz.conc.
1	2.4	0.0	0.0	0.0	0.0	0.3	29.0
2	3.6	0.0	0.0	0.0	0.0	0.7	21.1
3	1.7	0.6	0.0	0.0	0.3	0.9	20.3
4	1.1	0.3	0.0	0.0	0.0	0.3	15.8
5	1.6	0.0	0.0	0.0	0.0	1.2	17.8
6	1.8	0.0	0.3	0.0	0.0	0.5	16.8
7	2.9	0.0	0.0	0.4	1.1	0.4	16.4
8	2.1	0.0	0.0	0.0	0.0	0.7	20.7
9	0.6	0.0	0.0	0.0	0.0	0.0	25.6
10	0.5	0.0	0.0	0.0	0.0	0.0	7.7
11	0.0	0.0	0.0	0.0	0.0	0.0	22.2
12	0.0	0.0	0.0	0.0	0.0	0.0	10.4
13	2.5	0.0	0.0	0.0	0.5	1.0	0.0
14							
	Homot.rub.	Lag.semistr.	Lag.spp.	Lent.spp.	Mil.circ.	Mil.suborb.	Nodob.atl.
1	0.0	0.0	0.0	0.0	0.0	0.0	0.6
2	0.0	0.0	0.0	0.0	0.0	0.3	0.7
3	0.0	0.0	0.0	0.0	0.3	0.0	0.3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.8
5	0.0	0.0	0.4	0.0	0.0	0.0	0.0
6	0.0	0.5	0.0	0.5	1.3	0.0	0.3
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.7	0.7	0.0
9	0.0	0.0	0.0	0.0	0.0	0.6	1.1
10	0.9	0.0	0.0	0.0	0.5	0.5	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.6
12	0.0	0.0	0.0	0.0	0.0	0.9	0.0
13	0.0	0.0	0.0	0.0	0.0	1.5	0.5
14							

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	Nodos.spp.	Non.atl.	Pener.prot.	Pianorb.med.	Pianul.exoma	Polym.spp.	Pull.bull.
1	0.0	0.9	6.6	0.3	5.1	0.0	0.0
2	0.0	0.7	8.3	0.0	3.6	0.0	0.0
3	0.0	0.9	4.6	0.3	6.9	0.0	0.0
4	0.0	1.3	10.8	0.3	8.7	0.5	0.0
5	0.0	2.0	12.3	0.4	4.7	0.0	0.0
6	0.0	2.3	3.9	0.0	7.3	0.0	0.0
7	0.0	2.2	5.1	0.0	10.2	0.0	0.0
8	0.0	2.1	4.3	0.0	11.8	0.7	0.0
9	0.0	3.4	8.0	0.0	5.1	1.1	0.0
10	0.5	2.7	9.0	0.5	8.6	0.0	0.0
11	0.0	4.9	2.5	0.0	6.8	0.0	0.0
12	0.0	1.9	1.9	0.0	5.7	0.0	0.9
13	0.0	1.5	3.0	0.0	5.0	1.0	0.0
14							
	Pyrgo striol.	Pyrgo subsph.	Pyrgo will.	Pyrul.cyl.	Q.agglut.	Q.bicos.	Q.brady.
1	0.0	0.9	0.0	0.3	2.1	1.8	0.0
2	0.0	0.0	0.0	0.0	3.6	4.3	1.3
3	0.0	0.0	0.0	0.0	5.1	2.0	0.0
4	0.0	0.0	0.0	0.0	6.3	1.9	0.0
5	0.8	0.0	0.0	0.4	0.0	0.8	0.0
6	0.0	0.3	0.0	0.0	4.4	1.3	0.0
7	0.0	0.0	0.0	0.0	8.4	0.0	0.0
8	0.0	0.0	0.0	0.0	3.6	0.4	0.4
9	0.0	1.7	0.0	0.0	4.5	0.0	0.0
10	0.0	0.0	0.0	0.0	3.6	3.2	0.0
11	0.0	0.0	0.0	0.0	2.5	0.0	0.0
12	0.0	0.0	0.9	0.0	3.8	0.0	0.9
13	0.0	0.0	0.0	0.0	1.5	1.0	0.0
14							
	Q.cand.	Q.compta.	Q.cost.	Q.funaf.	Q.laev.	Q.lamarck.	Q.park.occid.
1	0.0	3.9	0.6	0.3	0.0	4.5	0.0
2	0.0	3.3	0.3	0.0	0.3	1.7	0.0
3	1.7	2.9	2.3	0.0	0.0	3.4	0.0
4	0.0	2.6	1.9	0.0	0.0	2.1	0.0
5	0.8	7.1	0.0	0.0	1.2	2.4	0.0
6	0.3	2.6	0.0	1.3	1.3	0.8	0.0
7	0.0	1.8	0.7	1.5	0.4	1.5	0.0
8	0.0	0.7	0.0	0.7	1.1	3.9	0.0
9	0.0	4.5	0.0	0.0	2.3	5.1	0.0
10	0.0	3.6	2.3	0.0	0.9	3.2	0.0
11	0.0	1.9	6.8	0.0	1.2	0.6	0.0
12	0.0	2.8	4.7	0.0	0.0	1.9	0.0
13	0.0	1.5	0.0	0.0	1.0	1.0	1.0
14							



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	Q.poey.	Q.polyg.	Q.cras.subcun.	Q.sabul.	Q.seminul.	Q.spp.	Q.tricar.
1	4.2	1.2	0.3	1.8	0.9	0.0	0.0
2	4.6	1.0	0.0	0.0	1.3	3.3	0.0
3	5.1	0.9	0.0	2.0	0.0	1.4	0.0
4	4.0	0.0	1.3	0.8	1.1	4.2	0.0
5	2.4	0.0	0.0	0.8	2.0	1.2	0.0
6	3.6	0.0	0.0	0.0	0.5	5.7	0.0
7	2.9	0.7	0.0	0.0	0.7	1.1	0.0
8	3.6	1.1	0.0	0.4	1.1	0.0	0.4
9	0.6	0.6	0.0	0.6	0.6	2.8	0.0
10	3.6	3.2	0.0	0.5	3.2	0.9	0.0
11	2.5	0.0	0.0	1.2	1.9	3.1	0.0
12	3.8	0.0	0.0	0.9	0.9	10.4	0.0
13	6.5	0.0	0.0	1.5	4.0	5.5	0.0
14							
	Q.vulgaris	Rectob.mayori	Reoph.spp.	Reussel.stl.	Rosal.florid.	Saccam.atl.	Siphonap.horr.
1	1.5	0.0	0.6	0.6	0.0	0.0	0.0
2	2.0	0.0	1.3	0.0	0.0	0.0	0.0
3	0.0	0.0	2.0	0.6	0.3	0.0	0.0
4	0.5	0.0	2.1	0.8	1.1	0.0	0.0
5	2.0	0.0	0.4	0.0	0.8	0.0	0.0
6	1.3	0.3	0.8	2.1	1.0	0.3	0.5
7	0.7	0.0	1.1	1.1	1.8	0.0	1.1
8	0.0	0.0	0.4	0.7	0.0	0.0	0.0
9	1.1	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.5	0.0	0.0	0.0
11	1.2	0.0	0.6	0.6	0.6	0.0	0.0
12	1.9	0.0	0.0	0.0	2.8	0.0	0.0
13	0.0	0.0	0.0	0.5	0.0	0.0	0.0
14							
	Spirol.ariet.	Spirol.planul.	Spirol.sp.1	Tex.agglut.	Tex.con.	Tex.mayori	Trif.bella
1	0.3	0.0	0.0	3.6	0.3	0.0	0.0
2	0.0	0.0	0.0	5.6	0.3	0.3	0.0
3	0.0	0.0	0.0	3.1	0.3	0.6	0.0
4	0.0	0.0	0.0	1.1	0.3	0.5	0.0
5	0.0	0.0	0.0	1.6	0.0	0.0	0.0
6	0.0	0.0	0.0	2.6	1.3	0.0	0.0
7	0.0	0.0	0.0	4.0	0.0	0.0	0.0
8	0.0	0.0	0.4	1.1	0.0	0.4	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.6
10	0.0	0.5	0.0	2.7	0.5	0.5	0.0
11	0.0	0.0	0.0	6.2	0.0	0.0	0.0
12	0.0	0.0	0.0	1.9	0.0	0.0	0.0
13	0.0	0.0	0.0	3.5	1.0	0.5	0.0
14							

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	Triloc.grac.	Triloc.sp.1	Triloc.sp.2	Triloc.sp.3	Triloc.tricar.	Triloc.trigon.	Troch.adv.
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.3	1.0	0.0	0.3
3	0.3	0.0	0.0	0.0	0.0	0.6	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.4	0.0	0.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	1.1	0.0
8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.6	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.9	0.0	0.9	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14							

	Trunc.spp.	Valv.arau.	Valv.sp.1	Wies.auric.	Total
1	0.0	0.0	0.0	0.0	100
2	0.0	0.0	0.0	0.0	100
3	0.0	0.0	0.0	0.3	100
4	0.0	0.0	0.0	0.0	100
5	0.0	0.0	0.0	0.0	100
6	0.5	0.0	0.0	0.0	100
7	0.0	0.0	0.0	0.0	100
8	0.0	1.1	0.0	1.1	100
9	0.0	1.1	0.6	0.6	100
10	0.0	0.0	0.0	0.0	100
11	0.0	0.0	0.0	0.0	100
12	0.0	0.0	0.0	0.9	100
13	0.0	0.0	0.0	0.0	100
14					

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	ALA-91-11 #	CLA-SILT %	Strat.D(cm)	Am.park	Arch.angul	Art.lin	Art.mex.
1	1	3.3	4.0	0.0	3.4	2.9	27.5
2	2	3.3	51.0	0.0	1.9	1.1	14.9
3	3	2.6	155.0	0.3	12.8	0.0	6.1
4	4	1.6	247.0	0.3	11.7	3.0	4.9
5	5	1.7	312.0	0.5	15.4	4.2	3.0
6	6	1.4	333.0	0.6	8.3	0.6	5.2
7	7	2.1	350.0	1.6	12.8	0.8	1.9
8	8	7.6	366.0	22.0	0.0	0.0	0.0
9	9	14.3	384.0	41.7	0.3	0.0	0.0
10	10	13.2	395.0	41.3	0.5	0.2	0.0
11	11	16.6	404.0	71.2	0.3	0.0	0.0
	Art.pac	Art.sag	Ast.carin.	Bol.lance	Buchan	Bulim.eleg	Cornu.spp
1	0.0	0.0	6.3	0.0	0.0	0.0	0.5
2	0.0	0.0	7.3	0.0	0.4	0.0	0.0
3	0.0	0.0	53.9	0.0	0.0	0.0	0.0
4	0.0	0.3	51.1	0.0	0.0	0.0	0.0
5	0.0	0.0	48.3	0.0	0.0	0.0	0.0
6	0.0	0.0	51.7	0.0	0.0	0.0	0.0
7	6.5	0.0	37.1	0.0	0.0	0.0	0.0
8	0.0	0.0	0.5	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.3
10	0.0	0.0	14.6	0.2	0.0	0.2	0.7
11	0.0	0.0	2.2	0.0	0.0	0.0	0.3
	Cymb.atl	Elph.adv	Elph.disc	Elph.galv	Elph.gunt	Elph.mex	Elph.poss.
1	0.0	0.5	0.5	0.0	0.0	0.0	0.0
2	9.5	0.0	0.0	0.0	0.0	0.0	1.5
3	0.0	0.0	0.6	0.0	0.0	0.0	0.0
4	1.1	0.0	0.0	0.0	0.0	0.0	0.3
5	0.5	0.0	0.0	0.0	0.0	0.0	0.2
6	0.0	0.3	0.0	0.0	0.0	0.0	0.6
7	0.8	0.3	0.8	0.0	0.0	0.0	0.8
8	0.0	0.0	2.5	0.0	0.0	0.7	14.8
9	0.0	0.0	2.2	0.0	0.3	0.0	8.1
10	0.0	0.0	0.0	0.0	0.0	0.0	6.4
11	0.0	0.0	0.0	0.9	0.0	0.0	4.0
	Elph.spp	Epon.antil	Epon.repard	Glob.carin	Gut.austral	Hanz.conc	Haynes.germ
1	0.0	0.0	0.0	0.0	0.0	2.4	0.0
2	0.0	0.0	0.0	0.8	1.5	10.7	0.0
3	0.3	0.0	0.0	0.0	0.0	3.1	0.0
4	0.0	0.0	0.0	0.0	0.3	3.3	0.0
5	0.0	0.0	0.0	0.0	0.0	2.2	0.0
6	0.0	0.3	0.0	0.0	0.0	2.0	0.3
7	0.0	0.0	0.3	0.0	0.3	2.2	0.0
8	0.0	0.0	0.0	0.0	0.0	2.5	0.0
9	3.3	0.0	0.0	0.0	0.0	1.9	0.0
10	0.0	0.2	0.0	0.0	0.0	1.1	0.0
11	0.0	0.0	0.0	0.0	0.0	0.6	0.0

Table 3 (p. 2 of 3)

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	Mil.circ	Nonione.atl	Pener.prot	Planor.med	Planu.exor	Pyrgo subsph	Q. agglut
1	0.0	0.0	27.5	0.0	1.4	0.0	15.9
2	0.0	0.8	16.0	0.0	2.7	0.4	9.9
3	0.0	0.0	9.2	0.0	0.6	0.0	5.6
4	0.0	0.0	7.4	0.0	0.8	0.0	7.9
5	0.0	0.2	10.0	0.0	0.0	0.0	8.7
6	0.3	0.0	10.6	0.0	0.6	0.0	7.5
7	0.0	0.3	10.6	4.6	0.3	0.0	6.0
8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.3
10	0.0	0.5	1.1	0.0	0.0	0.0	3.4
11	0.0	0.0	0.6	0.0	0.3	0.0	0.3
	Q.bicost	Q.bradyi	Q.cand	Q.compta	Q.costata	Q.fumafuti	Q.laev.
1	0.0	0.5	2.4	1.9	1.9	0.0	0.0
2	3.4	0.8	0.0	0.8	0.0	1.1	0.0
3	0.3	0.3	1.4	0.6	0.0	0.3	0.0
4	0.0	0.0	0.0	2.5	0.0	0.0	0.3
5	0.0	0.7	0.2	1.5	1.0	0.0	0.0
6	0.0	0.0	0.0	3.2	0.0	0.0	0.9
7	1.6	0.5	0.0	0.8	0.0	0.0	0.3
8	0.0	0.0	2.8	4.4	0.0	0.0	2.8
9	0.0	0.5	0.0	6.0	0.0	0.3	2.2
10	0.0	0.0	0.0	5.7	1.1	0.0	0.0
11	0.0	0.0	1.2	2.8	0.0	0.0	0.6
	Q.lamarck	Q.poeyana	Q.polygona	Q.cras.subcun	Q.seminul	Q.spp	Q.tricar
1	0.0	0.5	0.0	0.0	0.0	1.4	0.0
2	0.0	5.7	0.0	0.0	0.0	2.7	0.0
3	1.1	0.0	0.0	0.0	0.3	0.3	0.3
4	0.0	0.3	0.0	1.6	0.3	0.5	0.0
5	0.7	0.7	0.0	0.0	0.0	0.5	0.0
6	0.3	1.7	0.3	0.0	0.0	1.7	0.6
7	0.0	1.4	0.3	0.0	0.0	3.0	0.0
8	24.1	0.0	0.0	0.0	0.2	10.6	0.0
9	14.1	1.9	0.0	0.0	0.0	10.0	0.0
10	10.5	0.7	0.0	0.7	0.9	3.9	0.0
11	5.9	0.9	0.0	0.0	0.0	4.3	0.0
	Q.vulgaris	Reophax spp	Reus.atl	Rosal.florid	Scutul.bocki	Tex.agglut	Tex.conica
1	0.0	0.0	0.0	0.0	0.0	1.4	0.0
2	0.0	0.4	0.8	2.3	0.8	1.1	0.4
3	0.0	0.0	0.3	0.3	0.0	1.4	0.3
4	0.0	0.0	0.5	0.3	0.0	0.5	0.3
5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
6	0.6	0.3	0.0	0.0	0.0	0.9	0.0
7	0.0	2.5	0.5	0.0	0.0	0.8	0.0
8	3.5	0.0	0.0	0.2	0.0	6.3	0.5
9	0.0	0.0	0.0	0.5	0.0	4.6	0.0
10	0.0	0.0	0.0	0.5	0.0	3.7	0.2
11	0.0	0.0	0.0	1.2	0.0	0.9	0.0

Table 3 (p. 3 of 3)

PEN-91-11

	Triloc.grac	Triloc.sp.1	Triloc.sp.2	Triloc.sp.3	Triloc.trigon	Wies.auric.	TOTAL
1	0.0	0.0	0.0	0.0	1.0	0.0	100.0
2	0.0	0.4	0.0	0.0	0.0	0.0	100.0
3	0.3	0.0	0.0	0.0	0.0	0.0	99.7
4	0.3	0.0	0.3	0.0	0.0	0.0	100.0
5	0.0	0.0	0.0	0.0	1.0	0.0	100.0
6	0.0	0.0	0.0	0.0	0.6	0.3	100.0
7	0.0	0.0	0.0	0.0	0.3	0.0	100.0
8	0.0	0.0	0.0	0.0	1.4	0.0	100.0
9	0.0	0.3	0.0	1.4	0.0	0.0	100.0
10	0.2	0.0	0.0	1.4	0.0	0.0	100.0
11	0.0	0.0	0.0	1.2	0.0	0.0	100.0

Table 4

PEN 91-5

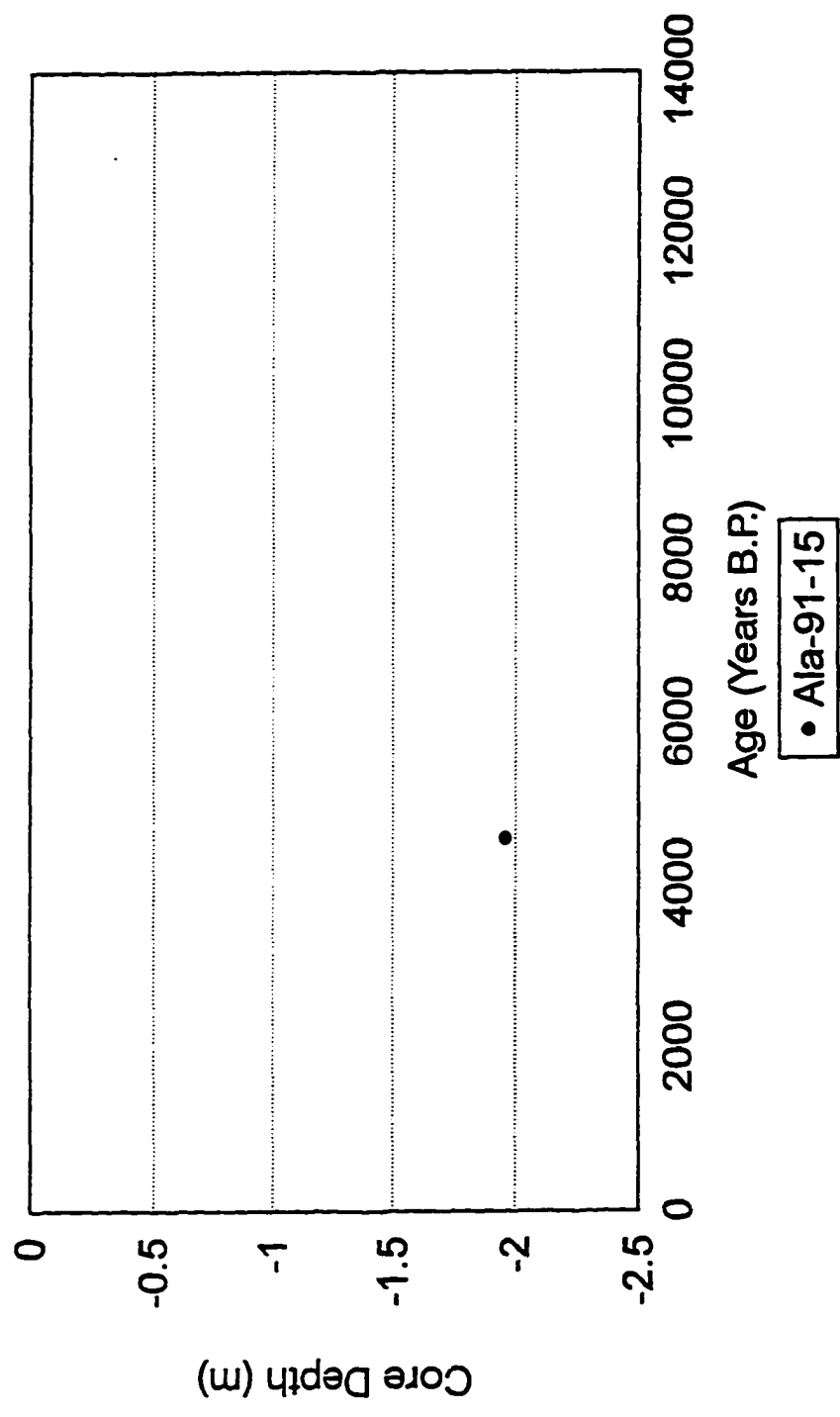
PEN-91-5 #		Strat. D (cm)	CLA-SILT %	Am.park	Arch.angul.	Art.lin.	Art.mex.
1	1	10.0	1.4	0.0	7.7	2.7	25.7
2	2	125.0	0.6	1.0	26.0	1.0	6.4
3	3	349.0	0.8	0.0	6.8	2.3	24.7
4	4	453.0	0.5	0.3	10.4	6.9	34.4
Ast.carin.		Bul.eleg.	Cymb.atl.	Elph.disc.	Elph.poe.	Gutt.aust.	Hanz.conc.
1	5.9	0.0	0.0	0.5	0.0	0.0	2.3
2	33.3	0.5	0.0	0.0	0.0	0.0	0.5
3	8.1	0.0	7.6	0.0	0.8	0.8	4.5
4	6.6	0.0	1.0	0.0	0.0	0.0	0.3
Nodob.atl.		Nonion.atl.	Pen.prot.	Planul.exorna	Polym.spp.	Q.agglut.	Q.bicost.
1	0.0	0.0	28.4	1.4	0.0	14.9	1.8
2	0.0	0.0	19.6	0.0	0.0	4.9	0.0
3	0.3	0.5	17.1	3.5	0.5	7.6	1.5
4	0.0	0.7	18.4	1.4	0.0	10.4	1.0
Q.bradyana		Q.candeiana	Q.compta	Q.costata	Q.laewig.	Q.lamarck.	Q.park.occid.
1	0.5	0.0	1.8	2.3	0.0	0.0	0.0
2	0.0	1.0	1.5	0.0	1.0	0.5	0.0
3	0.0	0.0	6.5	0.0	0.5	0.0	0.0
4	0.0	0.0	6.6	0.0	0.0	0.3	0.0
Q.poeiana		Q.p[olyg.	Q.sabulosa	Q.spp.	Reophax spp.	Reuss.atl.	Spirol.atl.
1	0.5	0.0	0.9	1.4	0.0	0.0	0.0
2	0.0	0.0	0.0	1.0	0.5	0.0	0.0
3	0.0	0.8	1.0	0.0	0.0	0.3	0.3
4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Tex.agglut.		Tex.conica	Triloc.grac.	Triloc.sp.3	Triloc.tric.	Triloc.trig.	TOTAL
1	1.4	0.0	0.0	0.0	0.0	0.5	100.0
2	0.5	0.0	0.5	0.0	0.0	0.5	100.0
3	0.3	0.5	0.0	0.3	0.3	3.0	100.0
4	0.3	0.0	0.0	0.0	0.0	0.0	100.0

## **APPENDIX G. PLOTS OF RADIOCARBON DATES BY CORE**

Appendix G provides plots showing conventional  $^{14}\text{C}$  ages versus core depth for individual cores. The ages were not calibrated to calendar years. Water depth is shown at the top of each plot.

# Ala-91-15

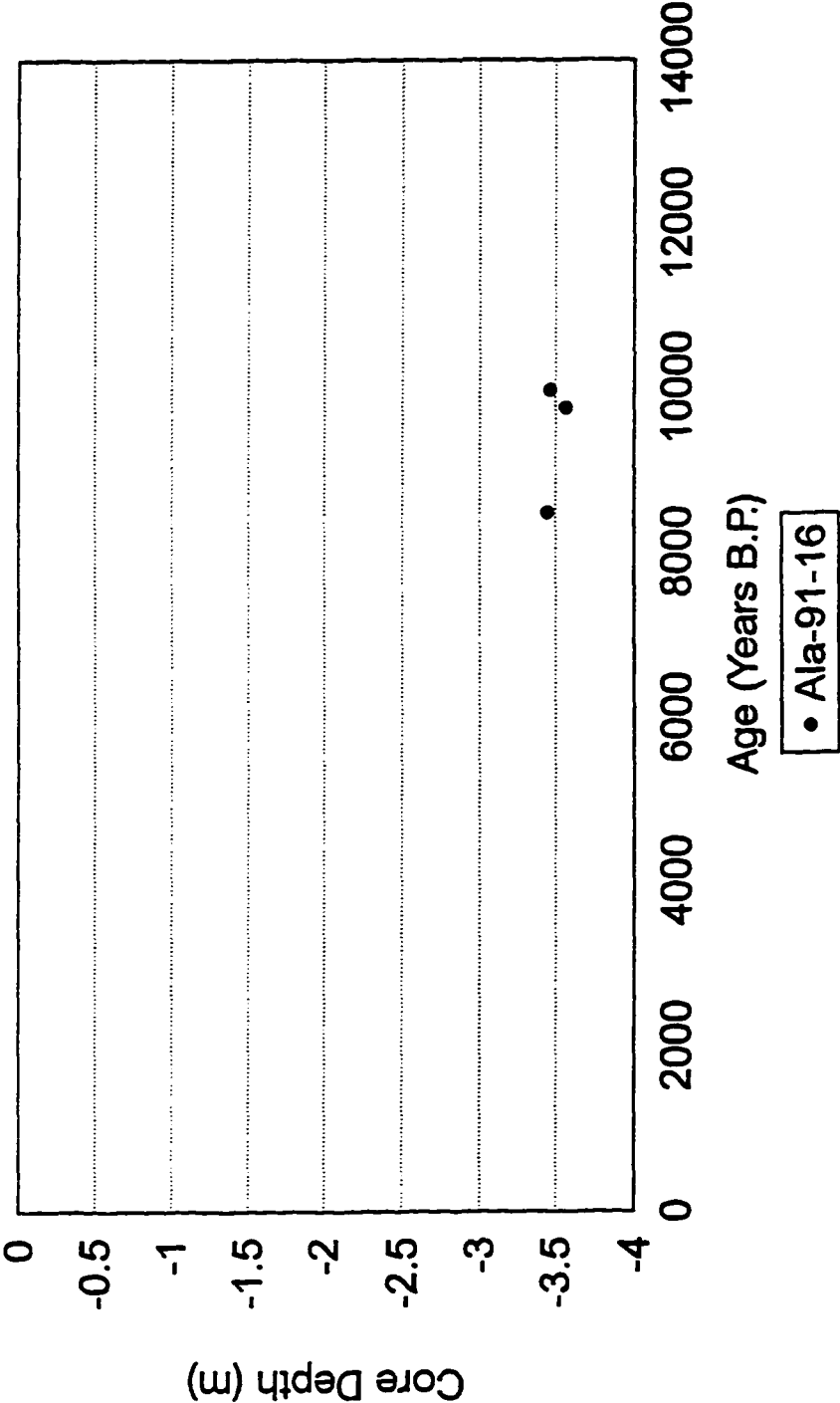
Water Depth: -36m





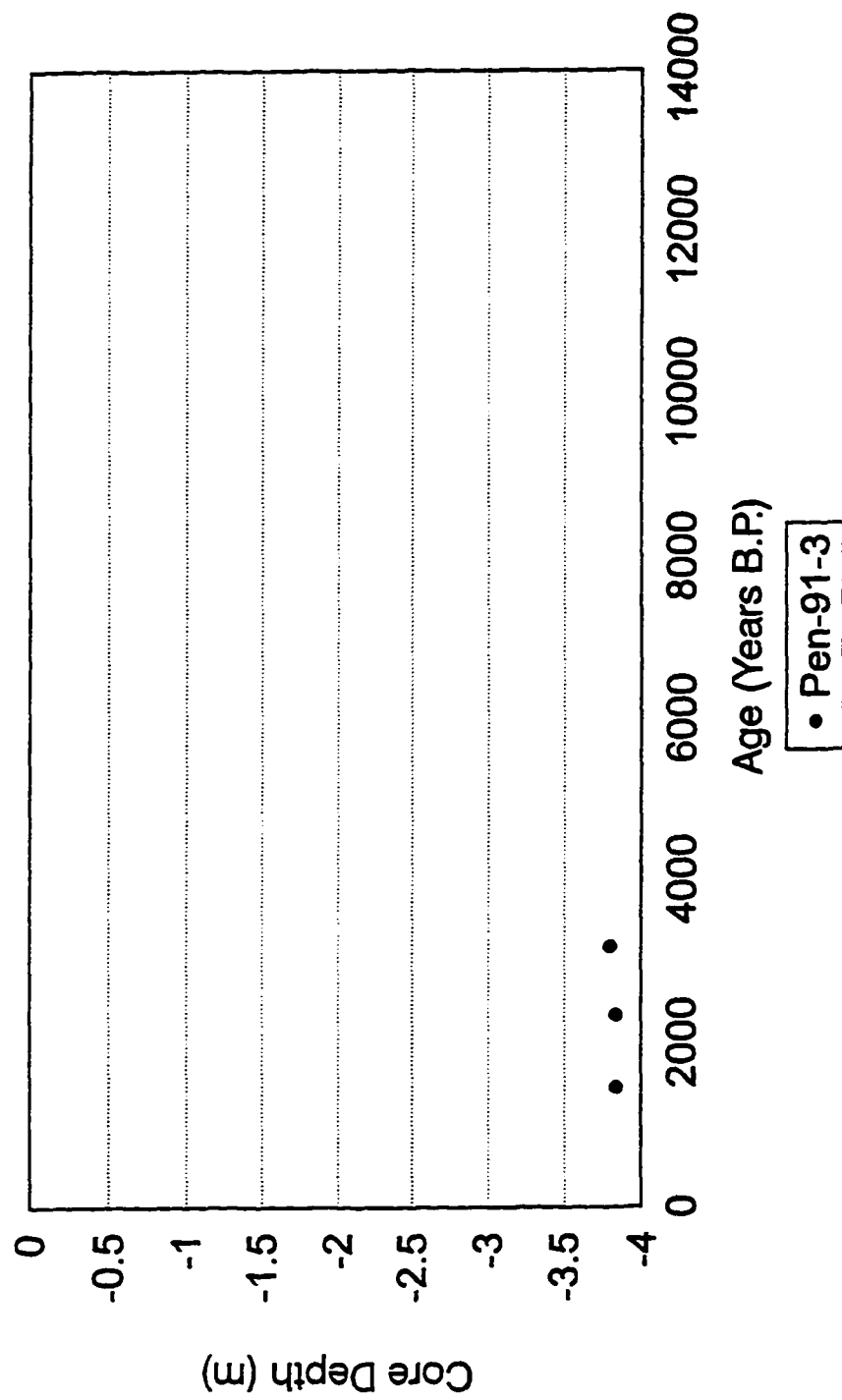
# Ala-91-16

Water Depth: -35m



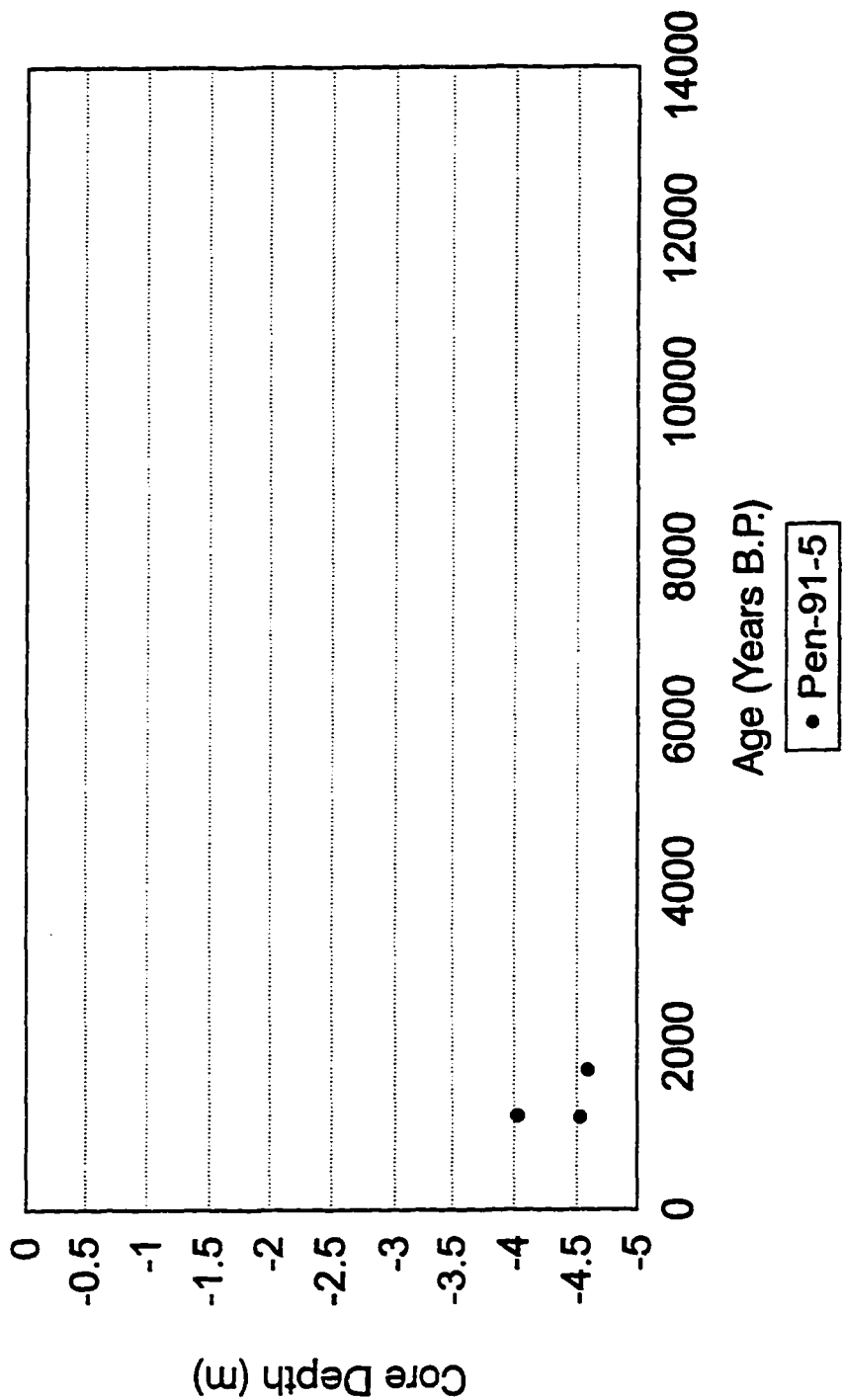
# Pen-91-3

Water Depth: -19m



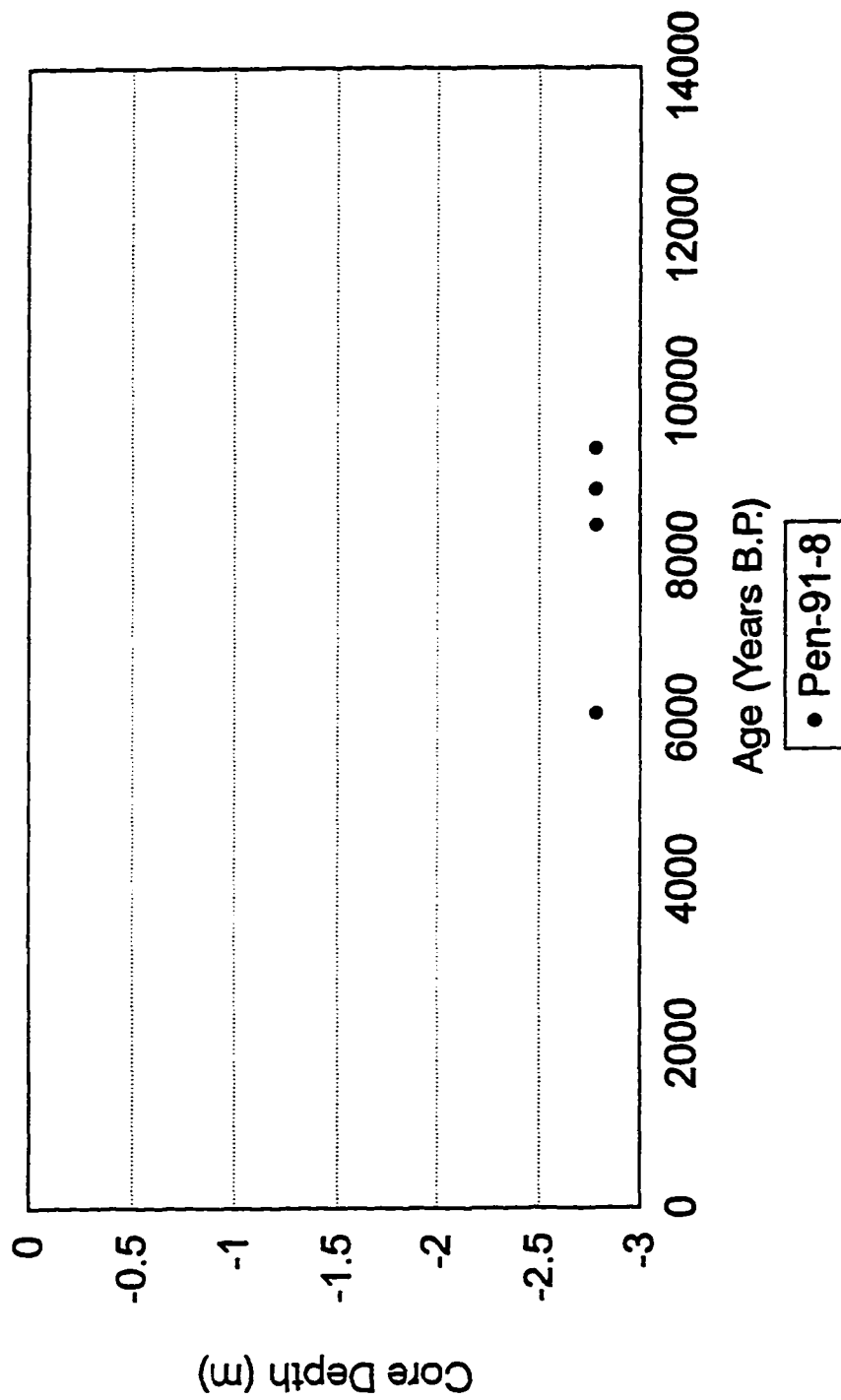
# Pen-91-5

Water Depth: -21m



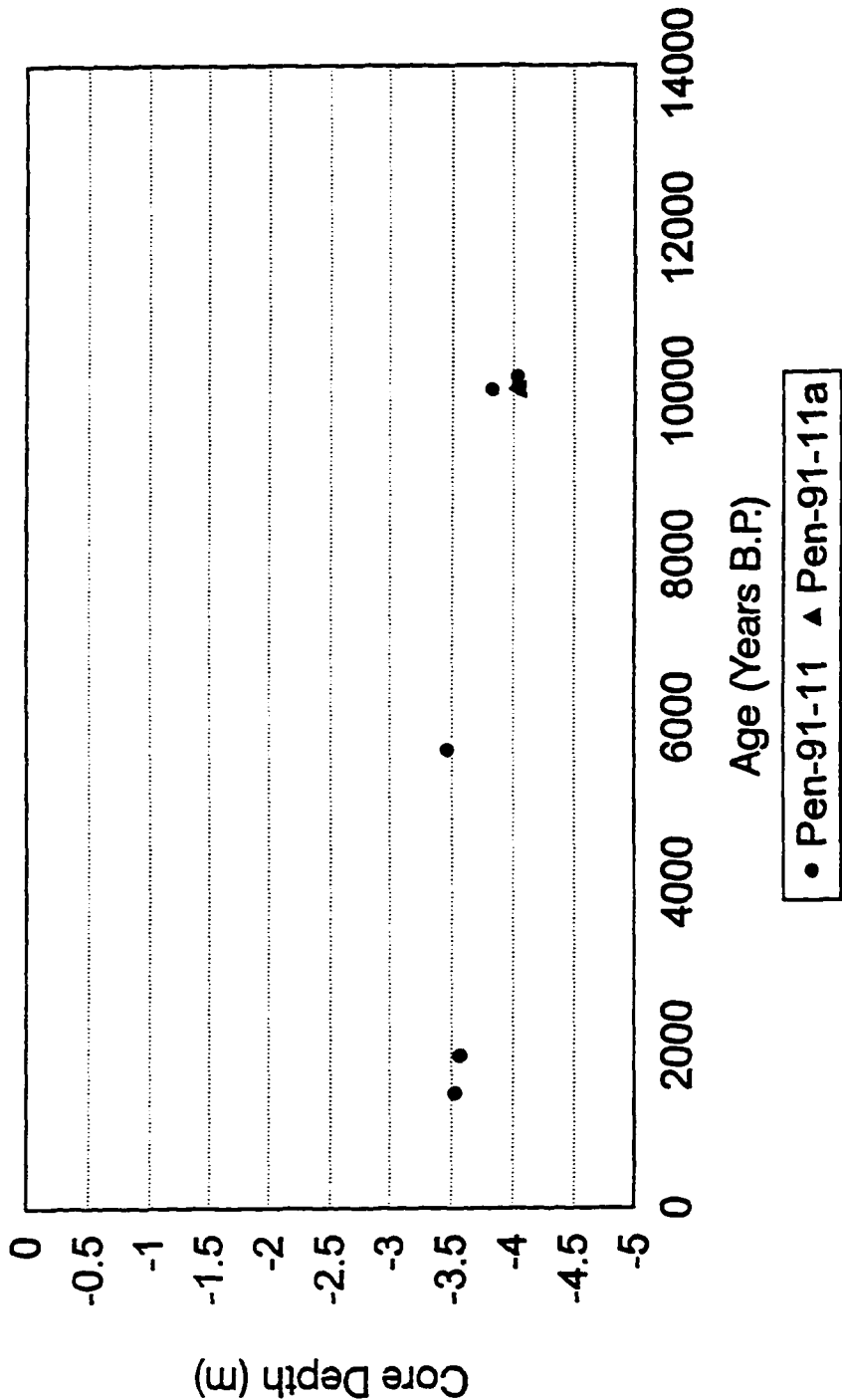
# Pen-91-8

Water Depth: -34m



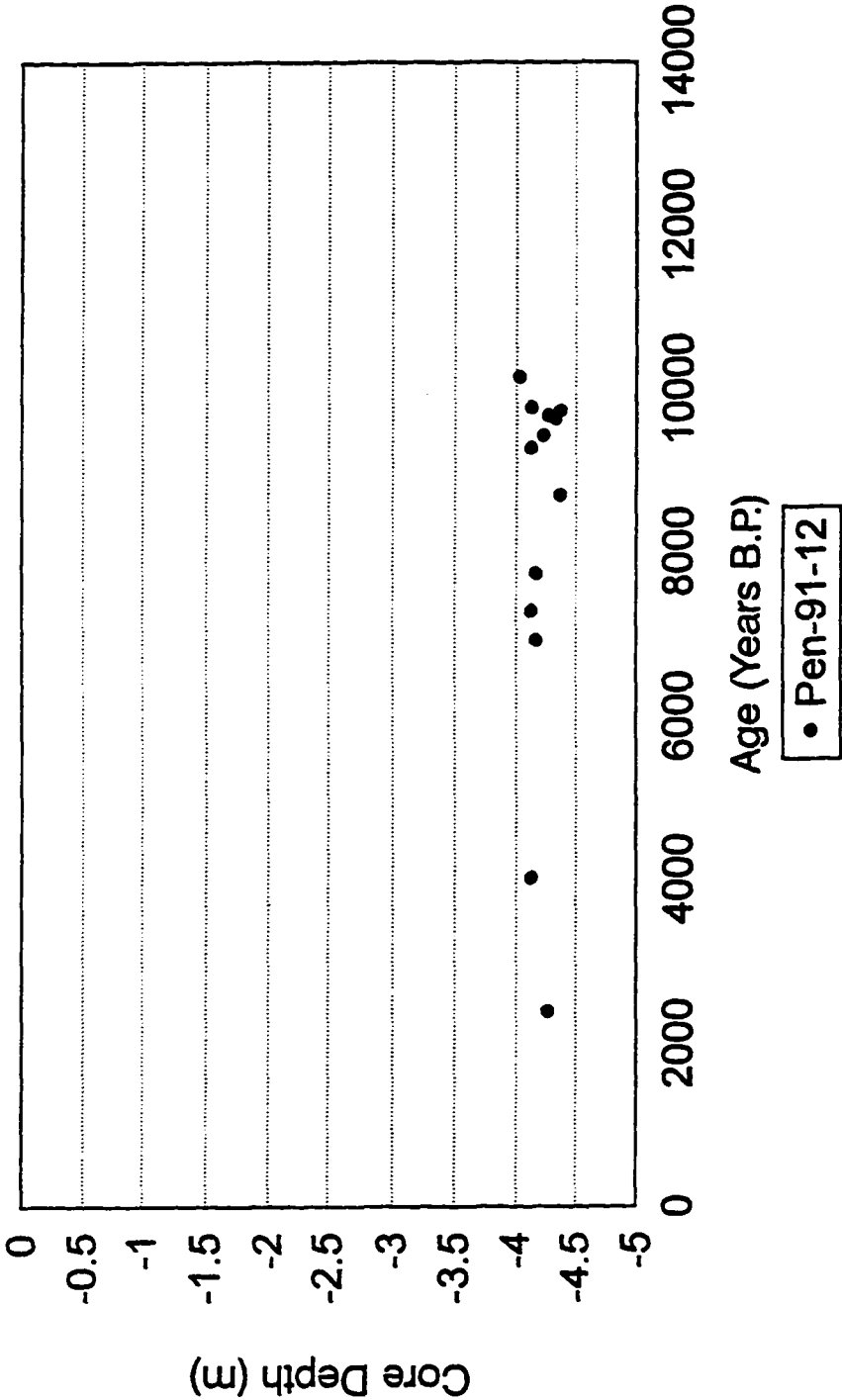
# Pen-91-11

Water Depth: -28m



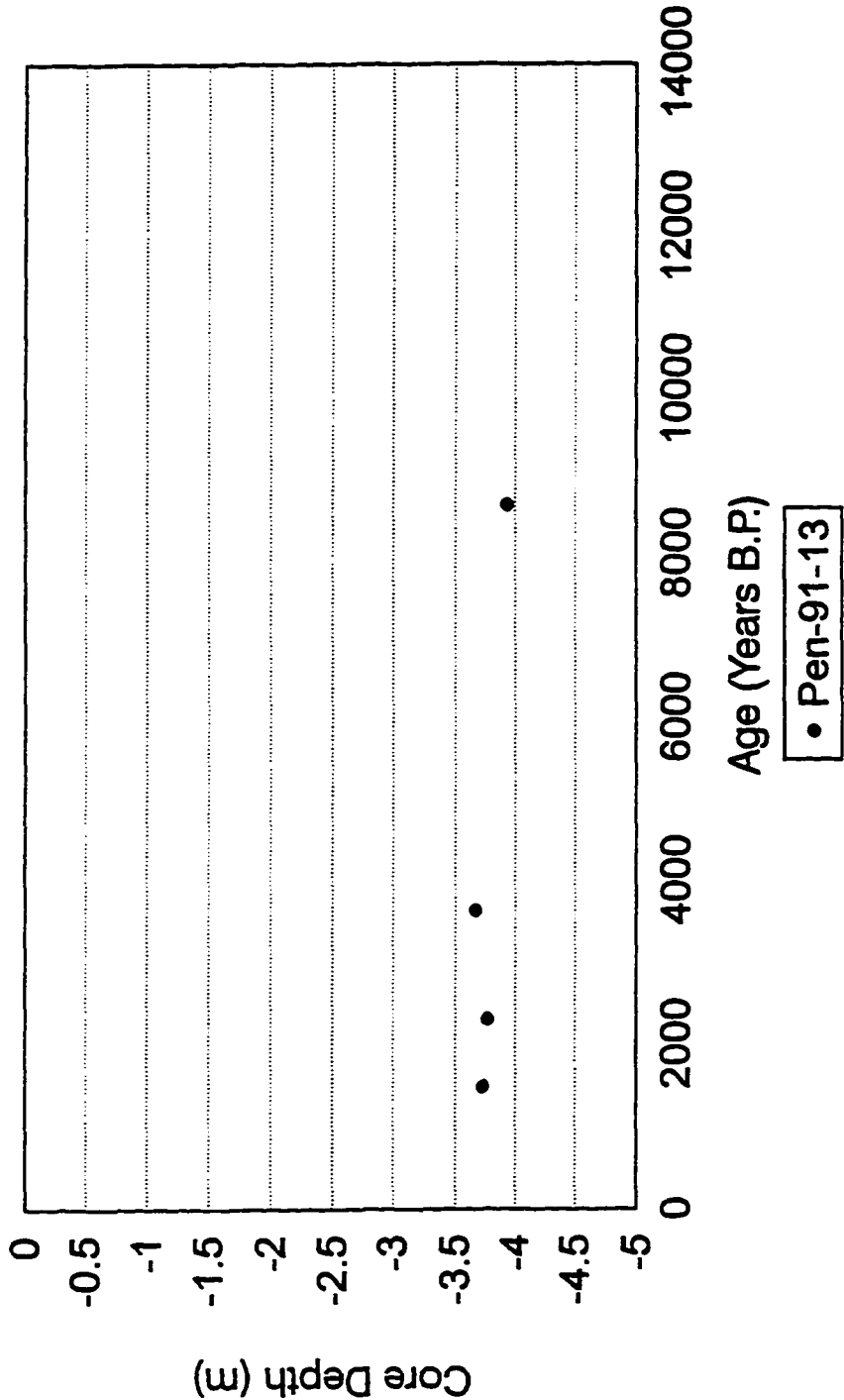
# Pen-91-12

Water Depth: -29m



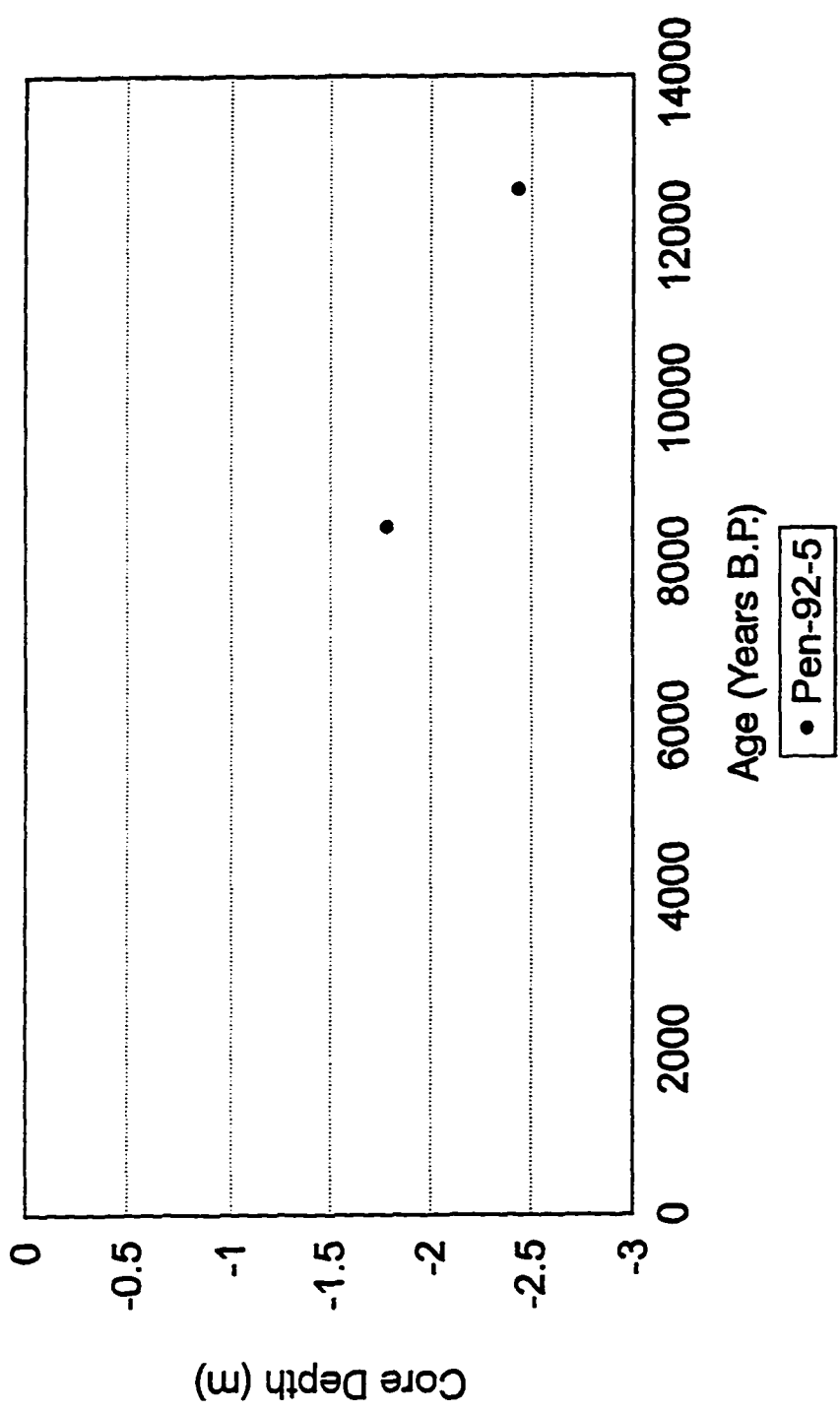
# Pen-91-13

Water Depth: -31m



# Pen-92-5

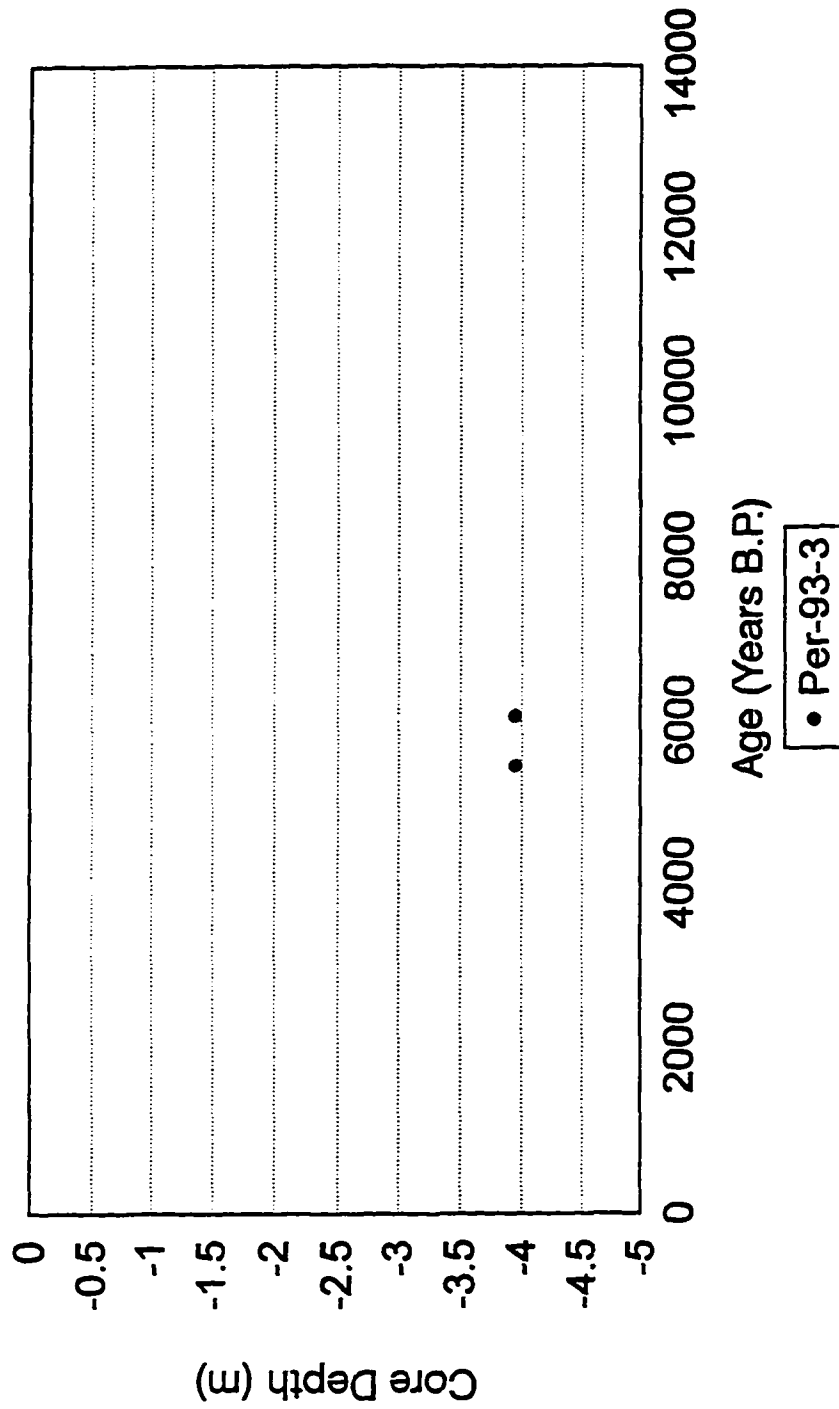
Water Depth: -23m





# Per-93-3

Water Depth: -4m



## **VITA**

Randolph Alexander McBride was born on September 26, 1959, in Grove City, Pennsylvania, to Milford Lawrence and Madeleine Francis Coulter McBride, Jr. He grew up in Grove City and graduated from Grove City Area High School in 1978. In the fall of 1978, he began his undergraduate education at Wittenberg University in Springfield, Ohio. McBride spent his junior year abroad in Salzburg, Austria, studying at Salzburg College. In 1982, he earned a bachelor of arts degree in physical geography/geology from Wittenberg University. The following year, Randy participated in a work study program in London, England, with Kerr-McGee Oil Company and London Polytechnic. In 1986, he earned a master of science degree in physical geography/geology from Louisiana State University. Between 1986 and 1993, McBride worked as a research associate for the Louisiana Geological Survey - Coastal Geology Section. In 1993, he joined the Coastal Studies Institute at Louisiana State University where he is currently a senior research scientist. In 1992, McBride started his doctor of philosophy degree, on a part-time basis, in the Department of Oceanography and Coastal Sciences at Louisiana State University. His primary research interests are coastal geology, process geomorphology, sedimentology, geological oceanography, and geographic information systems with a special emphasis on the geomorphic response of coastal/shelf depositional systems. McBride is a member of the Geological Society of America, Society for Sedimentary Geology (SEPM), Coastal Education and Research Foundation (Journal of Coastal Research), Baton Rouge Geological Society, and American Association of Geographers.

McBride has worked in many areas of coastal research including geologic framework studies in estuarine, deltaic, and marine environments; quantifying coastal change using geographic information systems, remote sensing, and global positioning systems; and documenting regional response patterns along barrier shorelines and on

continental shelves. Since 1986, Randy has worked on cooperative research projects with the National Marine and Coastal Geology Program of the United States Geological Survey investigating the geologic framework and geomorphic evolution of deltaic and chenier plain deposits along coastal Louisiana. Randy worked on the Louisiana Barrier Island Erosion Study, which was funded by the United States Geological Survey. He was the primary author on the shoreline change chapter of the Barrier Island Erosion Atlas published by the United States Geological Survey.

In 1994-95, McBride was a barrier island technical advisor to the Louisiana Department of Natural Resources and is currently working on the Louisiana Barrier Shoreline Feasibility Study and an associated Environmental Impact Statement aimed at mitigating severe wetland loss in Louisiana through barrier island restoration. These projects are funded by the Coastal Wetland Planning, Protection, and Restoration Act. In addition, he is investigating Late Quaternary deposits and hard mineral resources in the northeastern Gulf of Mexico with funding from the Minerals Management Service. In 1989 and 1990, McBride worked two field seasons in Alaska as a coastal geomorphologist for Woodward-Clyde Consultants who were charged with the Exxon Valdez oil spill response and scientific assessment. Randy has authored numerous research articles, atlases, and professional maps about the northern Gulf of Mexico and the east coast of the United States.

McBride is married to Claudia Croy Holland, and they have one son, Wyatt Carter McBride. As of August 1997, Randy has accepted a faculty position in geomorphology at George Mason University in Fairfax, Virginia. He will be an Assistant Professor of Geology (tenure-track) in the Department of Geography and Earth Systems Science.

## DOCTORAL EXAMINATION AND DISSERTATION REPORT

**Candidate:** Randolph A. McBride

**Major Field:** Oceanography and Coastal Sciences

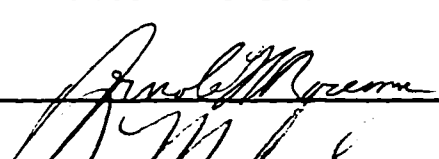
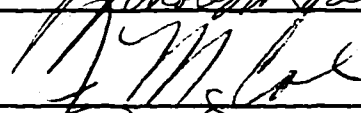
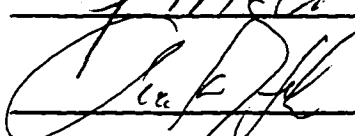
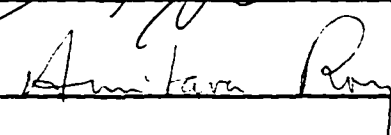
**Title of Dissertation:** Seafloor Morphology, Geologic Framework, and Sedimentary Processes of a Sand-Rich Shelf Offshore Alabama and Northwest Florida: Northeastern Gulf of Mexico

**Approved:**

  
Major Professor and Chairman

  
Dean of the Graduate School

### EXAMINING COMMITTEE:

**Date of Examination:**

March 14, 1997