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the central Venezuela Basin in 5050 m water depth. Sediments consisted of interbedded turbidite and pelagic sediments. Location 3 (13°30'N, 64°45'W) was on the western flank of the Aves Ridge in 3500 m water depth. Sediments were predominantly hemipelagic in origin.

Values of porosity, grain size, percent CaCO_3 , organic carbon and nitrogen, shear strength, color, compressional wave velocity, and attenuation were determined from 6.1 cm inside diameter cylindrical subcores. X-radiographs of 36 x 44 x 3 cm rectangular acrylic subcores were made to determine sedimentary/biological structure. Probes used to measure shear strength and compressional wave velocity were occasionally inserted into whole box cores for additional measurements. The color of freshly collected sediments from whole box cores was also noted.

In this report we present the entire data set in table form. Methods of collection and subsequent laboratory and computational analysis are presented in detail. The data presented here will be the subject of more detailed analysis in future publications.

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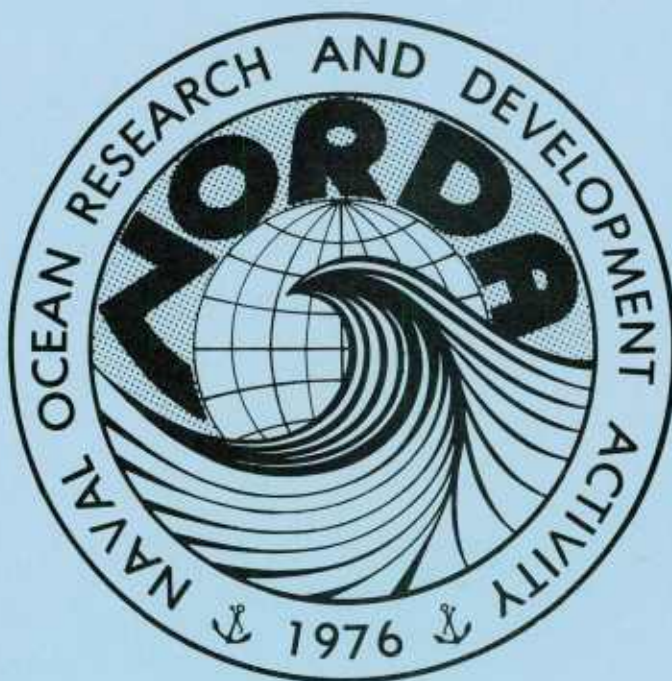
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Naval Ocean Research and
Development Activity,
NSTL, Mississippi 39529



Physical and Acoustical Properties of Surface Sediment from Venezuela Basin: A Data Report



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Kevin Briggs
Michael Richardson
Ocean Science Directorate
Oceanography Division
January 1984

EXECUTIVE SUMMARY

Physical and acoustic properties of surface sediments collected with a 0.25-m² box core were measured from 45 stations in the Venezuela Basin. Samples were collected from three locations representing different sedimentary provinces in addition to transects between the locations. Location 1 (15°07'N, 69°22'W) was on the eastern slope of the Beata Ridge in 3950 m water depth. Sediments were pelagic foraminifera ooze. Location 2 (13°45'N, 67°45'W) was in the central Venezuela Basin in 5050 m water depth. Sediments consisted of interbedded turbidite and pelagic sediments. Location 3 (13°30'N, 64°45'W) was on the western flank of the Aves Ridge in 3500 m water depth. Sediments were predominantly hemipelagic in origin.

Values of porosity, grain size, percent CaCO₃, organic carbon and nitrogen, shear strength, color, compressional wave velocity, and attenuation were determined from 6.1 cm inside diameter cylindrical subcores. X-radiographs of 36 x 44 x 3 cm rectangular acrylic subcores were made to determine sedimentary/biological structure. Probes used to measure shear strength and compressional wave velocity were occasionally inserted into whole box cores for additional measurements. The color of freshly collected sediments from whole box cores was also noted.

In this report we present the entire data set in table form. Methods of collection and subsequent laboratory and computational analysis are presented in detail. The data presented here will be the subject of more detailed analysis in future publications.

ACKNOWLEDGMENTS

The authors wish to acknowledge the assistance of the ships' captains and crews of the R/V GYRE (cruise 79G7), USNS LYNCH (cruise 708-80), and USNS BARTLETT (cruise 1301-82). We also wish to thank all of the scientific colleagues who participated in the aforementioned cruises. Without their support a project of this scope would have been impossible. Thanks to David C. Young, Frank Carnaggio, and James Matthews for designing and fabricating the compressional wave velocity probes. Special thanks are extended to Skidaway Institute of Oceanography and Steve Bishop, in particular, for use of the CHN analyzer and to NAVOCEANO for the training and use of the Micromeritics Particle Size Analyzer. We thank Richard Ray for the compilation of data exhibited in Appendix A and David K. Young for careful review of the manuscript. This work was supported by Program Element 61153N; Ralph R. Goodman and James E. Andrews, Program Managers.

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I. INTRODUCTION

This report presents data on the horizontal and vertical distribution of surface sediment physical and acoustic properties. The data was collected in an investigation of the effects of biological processes on the physical and acoustic properties of deep-sea sediments. Results from the biological collections will be included in subsequent reports. The entire data set on the following sediment properties is printed in the form of tables: porosity, grain size distribution, percent calcium carbonate (CaCO_3), organic carbon and nitrogen, shear strength, color, and sedimentary/biological structure, sediment compressional wave velocity, and attenuation. Methods of collection and subsequent laboratory and computational analysis are presented in detail. The data presented here will be the subject of more detailed analysis in future publications. The purpose of the report is to make the bulk of the sediment data available as rapidly as possible to others involved with this study.

II. MATERIALS AND METHODS

A. Site Selection

Three locations representing different sedimentary provinces in the Venezuela Basin were selected for study (Fig. 1). Location 1 was on the eastern part of the Beata Ridge ($15^{\circ}07'N$, $69^{\circ}22'W$) in 3950 m water depth. Sediments were pelagic foraminifera ooze. Location 2 was in the central Venezuela Basin in 5050 m water depth and centered about $13^{\circ}45'N$, $67^{\circ}45'W$. Sediments were interbedded turbidite depositions and pelagic sediments. Location 3 was on the eastern flank of the Aves Ridge in a hemipelagic sedimentary province in 3500 m water depth and centered about $13^{\circ}30'N$, $64^{\circ}45'W$.

A total of 99 stations were occupied consisting of: 19 box cores, eight trawls, and one dredge haul at location 1; 23 box cores and nine trawls at location 2; 18 box cores and eight trawls at location 3; three box cores along a transect between locations 1 and 2; five box cores along a transect between locations 2 and 3; and five trawls collected about 130 km north of location 2. A listing of the depth, latitude, longitude, date, and time (GMT) of each box core sample is

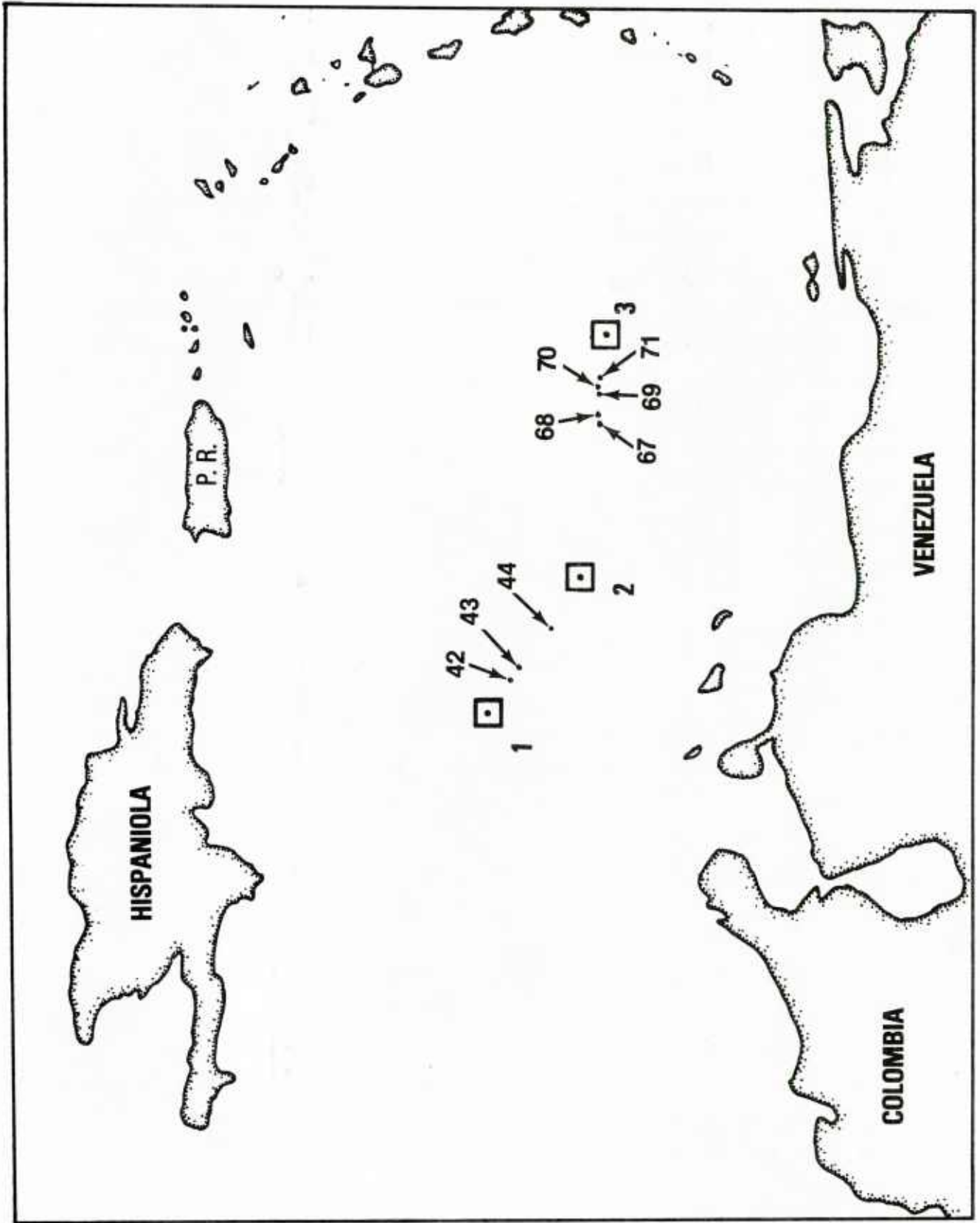


Figure 1. Location of sampling sites in the Venezuela Basin

presented in Table 1. Data pertinent to the trawl and dredge hauls will be presented in subsequent publications.

Samples were collected on three oceanographic cruises. Stations 1-6 were occupied from the R/V GYRE, cruise 79G7, which departed Panama City, Panama, on 10 November 1979 and terminated at Santo Domingo, Dominican Republic, on 26 November 1979. Stations 7-19 were occupied from the USNS LYNCH, cruise 708-80, which departed Roosevelt Roads, Puerto Rico, on 2 July 1980 and returned on 28 July 1980. Stations 20-99 were occupied from the USNS BARTLETT, cruise 1301-82, which departed Roosevelt Roads, Puerto Rico, on 14 October 1981 and returned on 8 December 1981.

B. Field Collection

Sediments were collected with the 0.25-m² MK III box corer depicted in Figure 2A-D. The design and function of the box corer were essentially the same as the box corer described by Hessler and Jumars (1974) with two exceptions: (1) the safety bar holding the release bolt was triggered by the downward fall of the column through the frame sleeve that released a lever holding the safety bar (this safety acted to prevent accidental triggering of the spade arm on deck or while the box corer was in transit to the bottom), and (2) spring-loaded doors at the top of the core box replaced the screened vents and flapper valves. A pinger, fastened on the wire 25 m from the box corer, was used to monitor sample collection on a Line Scan Recorder. Box core descent was approximately 50 m/min until the sampler was 50 m from the bottom. The box core was then lowered into the bottom as slowly as weather conditions permitted (10-25 m/min). The box core was retrieved at 50-75 m/min.

The box cores containing undisturbed surface sediment with overlying water together with the attached spade arm were carefully removed from the coring device. Cylindrical subcores (6.1-cm inside diameter and 46-cm length) and/or 36 cm (width) x 3 cm (thickness) x 44 cm (length) acrylic subcores were used to collect subsamples of the sediment. Extreme care was exercised to obtain relatively undisturbed subsamples with the sediment-water interface preserved intact within the subcores. In order to obtain undisturbed samples of the pelagic and turbidite layers at location 2, a second set of subcores was taken after manual removal of overlying sediment layers that had high shear strength and resistance to core penetration.

Table 1. Location, depth, date, and time of collection for the 68 box core stations occupied in the Venezuela Basin. Station listings do not include the 30 trawl hauls and dredge haul.

Station	Depth (m)	Latitude	Longitude	Date	GMT
1*	3958	15°08.3'N	69°24.6'W	15 Nov 79	0226
2	3958	15°08.3'N	69°24.6'W	15 Nov 79	1018
3	3958	15°14.7'N	69°14.7'W	15 Nov 79	1535
4*	3958	15°08.3'N	69°24.6'W	15 Nov 79	2223
5	3958	15°35.5'N	69°17.3'W	16 Nov 79	0320
6*	3958	15°08.3'N	69°24.6'W	16 Nov 79	1820
7*	5058	13°49.6'N	67°45.0'W	6 Jul 80	0105
8*	5059	13°48.4'N	67°40.7'W	7 Jul 80	1224
9	5054	13°46.6'N	67°45.2'W	8 Jul 80	0001
10*	5056	13°43.7'N	67°43.5'W	8 Jul 80	2103
11#	5060	13°46.0'N	67°49.7'W	23 Jul 80	0345
12#	5060	13°46.7'N	67°46.8'W	23 Jul 80	0842
13#	5060	13°49.4'N	67°42.7'W	23 Jul 80	1516
14	5054	13°50.6'N	67°39.0'W	23 Jul 80	2050
15*	5060	13°45.4'N	67°47.8'W	24 Jul 80	0752
16	5054	13°45.0'N	67°40.4'W	24 Jul 80	1620
17	3517	13°32.8'N	64°45.7'W	25 Jul 80	2150
18	3517	13°25.6'N	64°47.7'W	26 Jul 80	1143
19*	3514	13°25.1'N	64°51.0'W	26 Jul 80	1508
20*	3934	15°05.2'N	69°22.8'W	17 Oct 81	2335
21	3937	15°07.6'N	69°24.1'W	18 Oct 81	2053
22	3934	15°07.3'N	69°22.9'W	19 Oct 81	0241
23	3933	15°07.0'N	69°24.0'W	19 Oct 81	1223
24	3936	15°06.1'N	69°24.2'W	19 Oct 81	1606
25*	3934	15°07.9'N	69°22.7'W	19 Oct 81	2114
26	3940	15°06.4'N	69°22.3'W	21 Oct 81	0902
27*	3935	15°07.9'N	69°20.6'W	21 Oct 81	2342
28	3949	15°07.4'N	69°20.0'W	22 Oct 81	1236
29	3959	15°03.5'N	69°21.6'W	23 Oct 81	0340
30	3945	15°09.0'N	69°34.2'W	23 Oct 81	0845
31	3949	15°04.3'N	69°19.7'W	23 Oct 81	1234
32	3945	15°00.9'N	69°17.8'W	23 Oct 81	1637
42	4322	14°50.8'N	68°59.7'W	29 Oct 81	1659
43	4493	14°45.1'N	68°52.1'W	29 Oct 81	2336
44	4805	14°19.8'N	68°22.2'W	30 Oct 80	0958

* = macrofauna box core

= disturbed box core, no subsamples collected

Table 1 (continued)

Station	Depth (m)	Latitude	Longitude	Date	GMT
45*	5065	13°53.1'N	67°44.9'W	31 Oct 81	0210
46	5053	13°50.5'N	67°47.7'W	31 Oct 81	2104
47	5049	13°44.4'N	67°48.3'W	1 Nov 81	0305
48	5049	13°44.1'N	67°48.8'W	1 Nov 81	0808
49*	5052	13°37.4'N	67°50.5'W	1 Nov 81	1630
50	5052	13°52.2'N	67°48.3'W	2 Nov 81	0612
51	5049	13°44.9'N	67°48.0'W	2 Nov 81	1226
52*	5052	13°49.5'N	67°50.3'W	2 Nov 81	1825
53	5049	13°47.3'N	67°47.9'W	3 Nov 81	0836
54	5052	13°43.0'N	67°44.8'W	3 Nov 81	1434
55	5050	13°46.4'N	67°47.7'W	3 Nov 81	2149
56*	5049	13°46.6'N	67°47.7'W	4 Nov 81	0741
57	5046	13°42.9'N	67°47.6'W	4 Nov 81	1747
67	4749	13°35.9'N	65°52.1'W	18 Nov 81	0646
68	4447	13°34.0'N	65°45.0'W	18 Nov 81	1429
69	4188	13°34.7'N	65°28.6'W	18 Nov 81	2200
70	3937	13°33.9'N	65°24.2'W	19 Nov 81	0415
71	3775	13°31.6'N	65°10.8'W	19 Nov 81	1057
72*	3476	13°29.6'N	64°45.2'W	20 Nov 81	0522
73	3542	13°33.6'N	64°42.1'W	20 Nov 81	2135
74	3503	13°32.6'N	64°44.0'W	21 Nov 81	0218
75*	3506	13°32.1'N	64°42.5'W	21 Nov 81	0934
76	3490	13°33.8'N	64°41.4'W	21 Nov 81	1934
77	3477	13°28.5'N	64°40.8'W	22 Nov 81	0207
78*	3447	13°32.7'N	64°43.0'W	22 Nov 81	0646
79	3495	13°33.4'N	64°43.3'W	22 Nov 81	2320
80	3429	13°32.3'N	64°32.9'W	23 Nov 81	0415
81*	3437	13°26.2'N	64°38.1'W	23 Nov 81	0921
82	3433	13°35.6'N	64°40.3'W	23 Nov 81	1954
83*	3464	13°23.0'N	64°26.3'W	24 Nov 81	0202
84*	3487	13°28.8'N	64°44.0'W	24 Nov 81	0745
85*	3472	13°30.1'N	64°40.2'W	24 Nov 81	1210
86	3440	13°32.1'N	64°39.6'W	25 Nov 81	0013

* = macrofauna box core

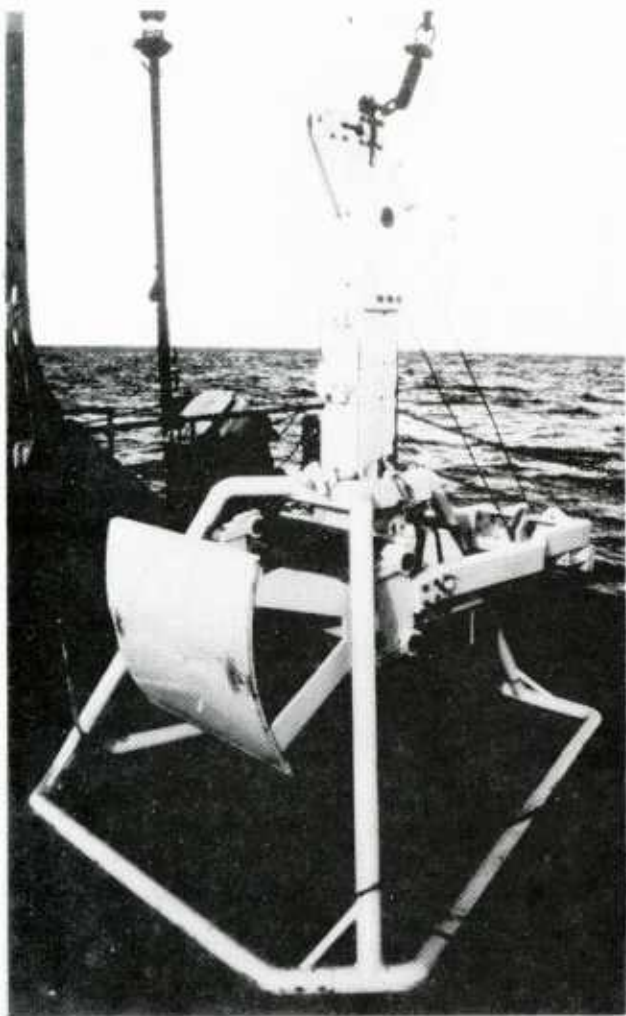


Figure 2A. MK III box corer ready to deploy

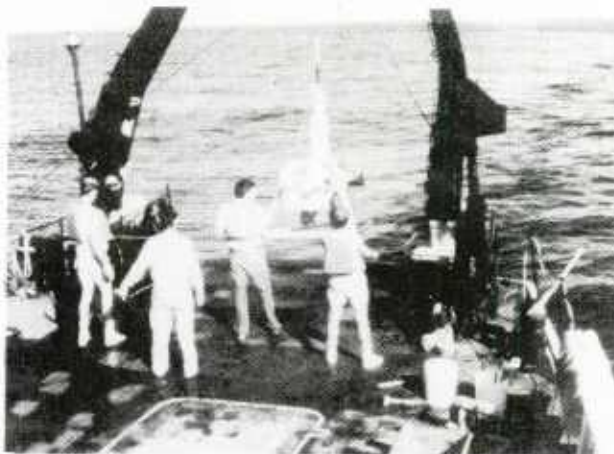


Figure 2B. Deployment of box corer from rear U-frame of USNS BARTLETT

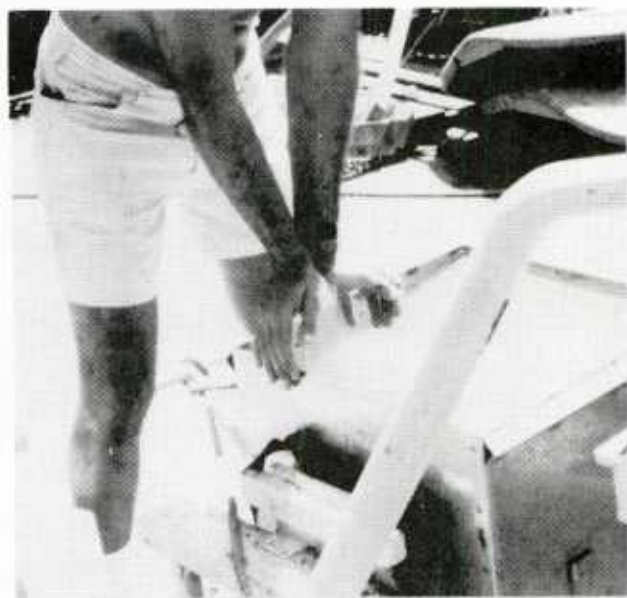


Figure 2D. Subcoring of box core sample after detachment of box core and spade from box corer with aid of cart



Figure 2C. Retrieval of box corer containing bottom sediment sample

One to 24 subcores were collected from each box core (except from stations 11, 12, and 13 which were disturbed samples). A listing of subcores by type of analysis is presented in Table 2. Some subcores were used for more than one type of analysis (e.g. compressional wave velocity and shear strength). Because of the dual-use of subcores, there will appear to be a disparity between the total number and the sum of the individual subcores. Those collected for analyses by workers outside of NORDA (i.e. benthic foraminifera: Barun Sen Gupta, LSU; meiofauna: Donald Woods, U. of Alabama; muramic acid: David White, FSU; microfaunal lipids: H. Rodger Harvey, U. of Georgia; radionuclide distribution: David Schink and Norman Guinasso, Texas A&M) will be the subject of subsequent publications.

C. Field Analysis

Sediment acoustic measurements were made utilizing three different types of apparatus: probes inserted into undisturbed box cores, USI-103 transducer-receiver head with the USI-103 sediment velocimeter, and USI-103 transducer-receiver head with different electronic components.

Replicate series of compressional wave velocity measurements were made at 0.5-cm intervals in four undisturbed box cores using the probes described in Figures 3 and 4. A Tektronix PG 501 Pulse Generator was used to trigger a Tektronix FG504 Function Generator and a Hewlett Packard 1743A dual-time interval Oscilloscope (Fig. 3). The Tektronix FG504 Function Generator drove the compressional wave transducer with a 70-kHz sine wave triggered for 10 μ sec duration every 2 msec. The electrical energy was transferred into mechanical energy using a piezoceramic thin sheet transducer (12.7-mm long, 2.5-mm wide, and 0.25-mm thick) cut from a G1195 series thin sheet manufactured by Gulton Industries. The transducer was epoxied at one end into a 15-mm long, 10-mm wide window machined into a 2.4-mm thick Phenolic Sheet and potted with Scotch Cast 8 (Fig. 4).

Compressional waves propagated through the sediments to two compressional wave receivers that were built as identically as possible to the compressional wave transducer. The mechanical energy was transferred into electrical energy by the piezoceramic receivers, amplified (20-dB gain) by Burr-Brown 3622K Differential amplifiers, and filtered by Krohn-Hite Model 3100R Band-Pass Filters (1-1000 kHz low cut-off and high cut-off frequencies) set in the maximum flat butterworth

Table 2. Listing of subcores collected from the 45 box core samples obtained for physical/acoustic property analyses

STATION	2	3	5	9	14	16	17	18	21	22	23	24	26	28	29	30	31	32	42	43	44	46	47	48
NORDA																								
TOTAL SUBCORES	0	10	8	2	15	12	3	1	8	3	3	7	5	2	7	7	2	1	10	11	11	5	3	9
Acoustic	5	5	5	2	15	12	3	1	5	1	2	4	4	2	4	6	2		5	5	5	2	2	9
Physical	5	4	4	2	3		3	1					2	1			1			1	1	1	1	
Shear Strength									1		1			1	2	5	1		3	3	3	1	1	6
X-ray boxes										2			1			1								
Organic	3								3			3			3				3	3	3	3		
Geotechnical											1							1	2	3	3		1	
Outside NORDA																								
TOTAL SUBCORES	3	3	3	3	5	6	8	5	13	0	0	13	0	0	14	0	0	0	13	11	12	14	0	0
Sen Gupta									4			4			4				4	4	4	4		
Woods	3	3	3	3	5	5	5	5	5			5			5				3	3	3	5		
White									2			2			2				2	2	2	2		
Harvey									2						3				4	2	3	3		
Schink and Guinasso	3			3		1	3																	
Measurements on Whole Box Cores																								
Acoustic probes									2															
Shear strength (torque gauge)											6			6			4							5

Table 2 (continued)

STATION	50	51	53	54	55	57	67	68	69	70	71	73	74	76	77	79	80	82	86
NORDA																			
TOTAL SUBCORES	3	9	7	9	0	2	8	8	8	8	8	5	6	5	6	5	7	2	1
Acoustic		4	4	4			5	4	4	4	4	2	3	2	2	2	3	2	
Physical		2	2	2			1	1	1	1	1				1		1	1	
Shear Strength		2	2	2			4	3	3	2	3	1	2	1	1	1	2	1	
X-ray boxes		3		3									3		2		2		
Organic	3	2	3	2		1	1	2	2	2	2	3		3		3			
Geotechnical						1	2	2	2	2	2				2		2		1
Outside NORDA																			
TOTAL SUBCORES	13	2	13	0	0	0	11	11	11	11	11	13	0	13	0	13	0	0	0
Sen Gupta	4		3				4	4	4	4	4	4		4		4			
Woods	5		5				3	3	3	3	3	5		5		5			
White	2		2				2	2	2	2	2	2		2		2			
Harvey	2	2	3				2	2	2	2	2	2		2		2			
Schink and																			
Guinasso																			
Measurements on																			
Whole Box Cores																			
Acoustic probes																		4	
Shear strength																			
(torque gauge)					6								6				6	6	

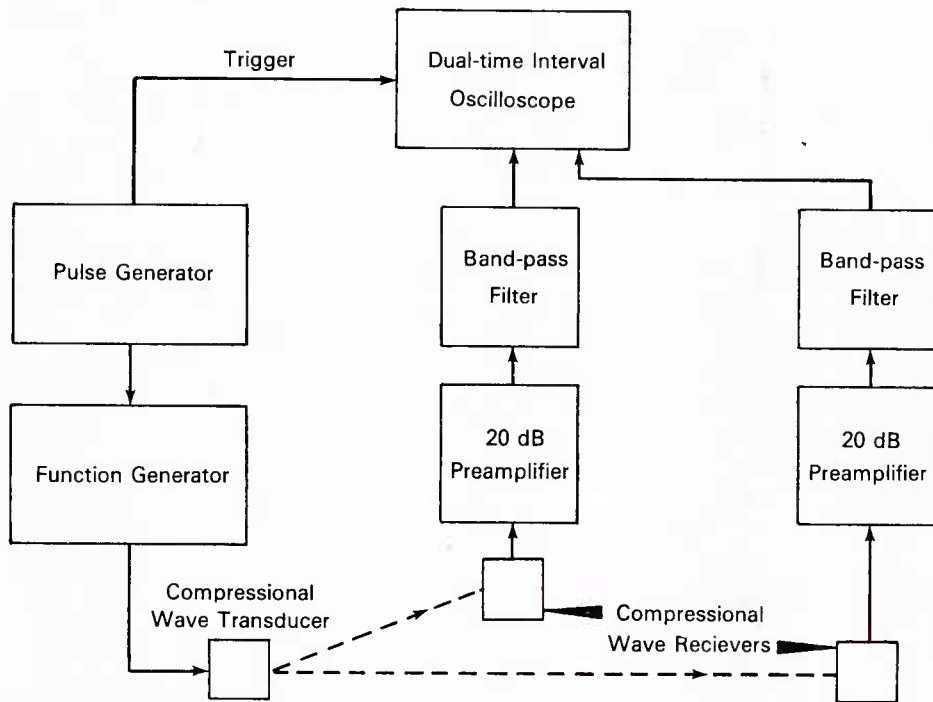


Figure 3. Block diagram of compressional wave velocity probe measuring system

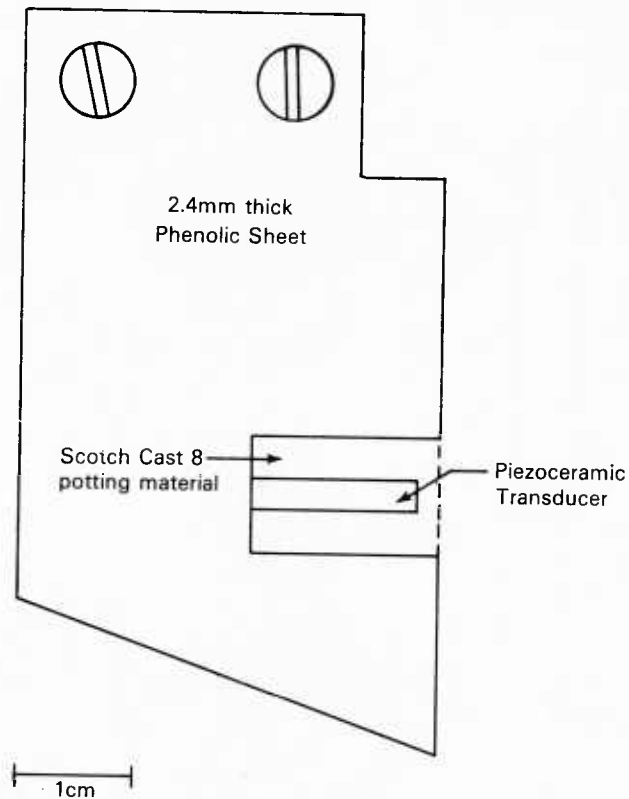


Figure 4. Line drawing of compressional wave velocity probes

position. The time delay (Δt) between the two, amplified, filtered, received signals was measured with the Hewlett-Packard Oscilloscope.

The first " Δt " measurement for each series was made in the water overlying the sediment-water interface. The difference in the distance between the transducer and the two receivers was calculated from the " Δt " measurement and the compressional wave velocity for sea water (calculated from MacKenzie, 1982) given temperature, salinity, and depth. Temperature and salinity of the overlying water were measured with a YSI Model 43TD temperature probe and an AO Goldberg temperature-compensated, salinity refractometer. The difference in distance between probes was assumed to remain the same during any series of measurements. Time delay (Δt) measurements were made at 0.5-cm intervals as the probes were inserted into the sediment. Simultaneous sediment temperature measurements were made with a YSI Model 43TD temperature probe. Compressional wave velocity at each depth was calculated from the difference in distance between the transducer and receivers and the measured time delay.

Values of compressional wave velocity were determined for sediment in the cylindrical core liners (stations 9, 14, 16, 17, and 18) with an Underwater Systems, Inc. (Model USI 103) Sediment Velocimeter. Time delay measurements made on distilled water through the core liner were compared to similar time delay measurements on the sediment sample to determine sediment compressional wave velocity using the following formula:

$$V_p = \frac{V_w}{1 - \left[\frac{\Delta t V_w}{d} \right]} \quad (1)$$

where V_p is the measured sound velocity through sediment (m/sec); V_w is the measured sound velocity through distilled water (m/sec); Δt is the measured time arrival of sound through distilled water minus the time arrival through sediment (sec); and d is the inside diameter of the core in meters.

Values of sediment compressional wave velocity and attenuation were determined at 1-cm intervals in the core samples collected at stations 21-84 with an Underwater System, Inc. (Model USI-103) transducer-receiver head. A Tektronix PG501 Pulse Generator, FG504 Function Generator, Krohn-Hite 3100R Band Pass Filter

and a Hewlett Packard 1743A dual-time interval oscilloscope were substituted for the electronics unit and oscilloscope usually employed with the USI-103 Velocimeter (Fig. 5). These substitutes increased resolution of compressional wave velocity measurements and provided accurate measurement of receiver voltages required for attenuation measurements.

The temperature of the cylindrical subcores was equilibrated with laboratory temperature prior to measurement of compressional wave velocity (V_p). Temperature and salinity of the overlying water were measured with a YSI Model 43TD temperature probe and a Guildline Instruments 8400A laboratory salinometer.

Sediment compressional wave velocity was determined using equation 1. All sound velocities were calculated at the common temperature, salinity, and pressure (23°C, 35 ‰, 1 atm) suggested by Hamilton (1971). All measurements taken with the USI-103 transducer-receiver head were made at 400 kHz. Attenuation measurements were calculated as 20 log of the ratio of the received voltage through distilled water versus receiver voltage through sediment. Attenuation measurements were extrapolated to a 1-m path length and reported as dB/m at 400 kHz (Hamilton, 1972). Attenuation was also expressed as a sediment specific constant (k):

$$a = kf^n \quad (2)$$

where a is the attenuation of compression waves in sediment (dB/m), f is the transmitted signal frequency (kHz), and n is a measure of frequency dependence. If n is assumed to be one (Hamilton, 1972), then the sediment specific constant (k) can be used to compare sediment attenuation to other sediment physical properties such as porosity and mean grain size without regard to the frequency at which the measurements were made.

Sediment shear strength was measured directly by a hand-held vane shear device in undisturbed box core samples and with a Wykeham-Farrance laboratory vane apparatus in cylindrical subcores. The hand-held vane shear device consisted of a 0-24 inch-ounce precision torque gauge equipped with a 1.89-cm high, 1.89-cm diameter or 2.54 x 2.54 cm vane, after the design of Dill and Moore (1965). The Wykeham-Farrance laboratory vane apparatus was equipped with a 1.26-cm high, 1.26-cm diameter vane. The torque required to shear the sediment was measured with both

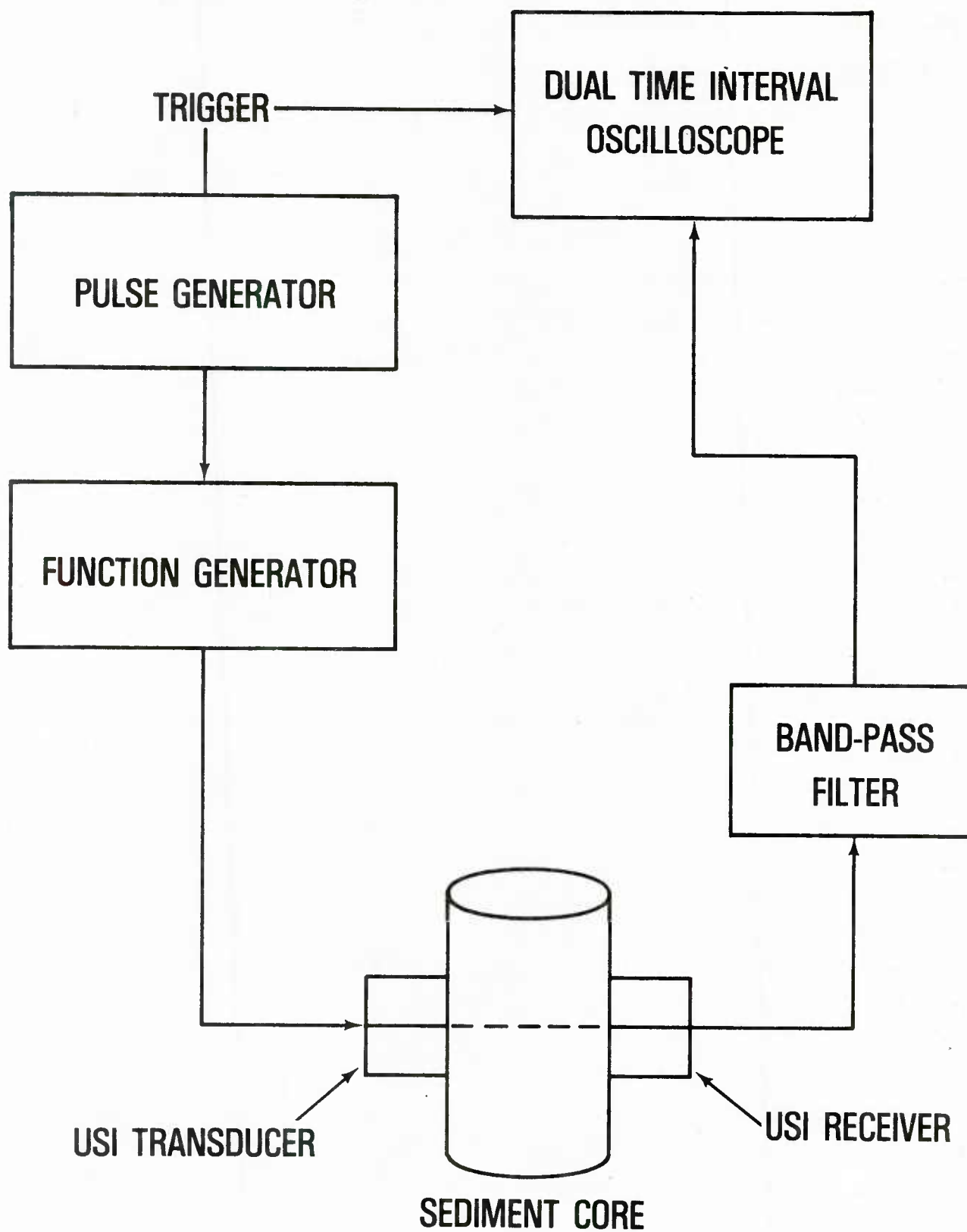


Figure 5. Block diagram of sediment core compressional wave velocity and attenuation measuring system

devices. The rotation rate for the Wykeham-Farrance vane was 84°/min, whereas the hand-held vane was rotated as slowly as possible, approximately 360°/min. Sediment shear strength (τ_f) was calculated from the torque required to shear the sediment (T) and the height (H) and diameter (D) of the vane using the following formula from Monney (1974):

$$\tau_f = \frac{T}{\pi \left(H \frac{D^2}{2} + \frac{D^3}{6} \right)} \quad (3)$$

Hand-held torque measurements were made without regard to the resistance of the vane shaft to rotation in the sediment. Measurements were made every inch after additional insertion of the vane and its 50-cm shaft. Torque measurements made with the Wykeham-Farrance vane do not include the resistance of the vane shaft as part of the measurement. Sediment was extruded from the subcore after each torque measurement exposing fresh undisturbed sediment for the next measurement.

Color descriptions of collected sediment were made with the aid of Munsell® Soil Color Charts (1975). Depth profiles of hue, value, and chroma were determined for sediments after removing a side of the box core. Depth profiles of color were also determined for sediments extruded from subcores after vane shear measurement.

Sedimentary/biological structure was revealed by X-raying sediments collected with acrylic rectangular subcores. Rectangular cores were constructed of two 3-mm thick acrylic sheets (36 x 44 cm) separated by 6-mm thick acrylic sides (3-cm width). One face was sealed with silicone sealant and held together with stainless steel machine screws; the other face was sealed with neoprene and stainless steel machine screws. Two 19-mm diameter holes in the top of the core were used for displacement of air during core insertion. The holes were closed by means of neoprene stoppers after sediment collection. Bottom edges of the cores were beveled to improve penetration. The bottoms of the cores were sealed with rectangular acrylic boxes lined with cellular neoprene. Rubber straps held the bottoms fast to the cores.

The rectangular cores were X-rayed by placing a 35.3 x 42.8 cm sheet of Kodak AA industrial X-ray film on the back of each core and exposing it to 50 kV, 20 ma for 30 sec with a Kramex PX-20N portable X-ray unit (Rhoads et al., 1977). For

safety purposes, cores were X-rayed in a 1.6-cm thick plywood box lined with 1.6-mm thick lead sheeting.

D. Laboratory Analysis

All cylindrical core samples not extruded for sediment shear strength measurements were refrigerated or frozen for subsequent laboratory analysis. Refrigerated cores were used in determining sediment porosity, grain size, and percent calcium carbonate (CaCO_3). Organic and nitrogen determinations were made on sediment from frozen cores.

Cores were sectioned at 2-cm intervals by extruding the sediment with a plunger and slicing the exposed sediment off with a spatula. Immediately after sectioning, subsamples of extruded sediment for porosity determinations were placed in preweighed aluminum pans, weighed, dried in an oven at 105°C for 24 hr, cooled in a desiccator, and reweighed. Percent water was calculated by dividing the weight of evaporated water (difference between wet and dried sediment weights) by the weight of the dried solids and multiplying by 100. Using an average grain density value of 2.65 for noncarbonate sediment (location 2) and 2.70 for carbonate sediments (locations 1 and 3), porosity values were determined from tables relating porosity to water content (Lambert and Bennett, 1972). The values were not corrected for the salinity of pore water.

Grain-size analysis of sediment was accomplished essentially as described by Folk (1965). The silt and clay fractions from 4 to $10\ \phi$ (phi), however, were determined with a Micromeritics® Model 5000 Particle Size Analyzer rather than the standard pipette method. The sediment samples were soaked overnight in 200 ml of dispersant solution (2.5 g of sodium hexametaphosphate per liter of distilled water), then disaggregated by sonicating the sample with a cell disruptor for 12 min while stirring with a magnetic stirrer. The disaggregated sample was wet-sieved with dispersant through a $62\text{-}\mu\text{m}$ screen to separate the sand-sized fraction from the silt- and clay-sized fraction. The finer fraction was collected in a 1000-ml graduated cylinder, and enough dispersant was added to fill the graduated cylinder to 1000 ml. The coarser fraction was rinsed off the screen into a beaker with distilled water and then dried.

The dried, coarser fraction was fractionated into -3 to -2, -2 to -1, -1 to 0, 0 to 1, 1 to 2, 2 to 3, and 3 to 4 ϕ intervals with an ATM sonic sifter and each fraction was individually weighed to determine the sand-sized particle distribution. The silt- and clay-sized fraction was thoroughly agitated by vigorous stirring and aeration. A 20-ml aliquot sample representative of the total distribution of particles in suspension was pipetted from the graduated cylinder and into a preweighed beaker, dried in an oven, and weighed. After 5 days, 20-ml aliquot samples were pipetted from the appropriate depths in the graduated cylinder and into preweighed beakers, dried, and weighed to estimate the weight of clay-sized particles in the 10 to 11, 11 to 12, and 12 to 14 ϕ intervals. At the conclusion of six days of settling, all particles 10 ϕ and coarser were near the bottom of the graduated cylinder. At this time the supernatant was slowly siphoned into another graduated cylinder, leaving the settled particles and about 200 ml of dispersant. The supernatant volume was recorded. A 20-ml aliquot sample was pipetted from the supernatant after agitation, dried, and weighed to estimate the weight of the particles finer than 10 ϕ . Finally, the sample remaining in the graduated cylinder was sonicated and stirred for 12 minutes in a beaker prior to size determination with the Micromeritics® analyzer. This particle size analyzer determines the concentration of silt- and clay-sized particles in liquid suspension at various depths in a sample cell by means of a finely-collimated, horizontal X-ray beam. The concentration was presented in the form of a cumulative "percent-finer-than" distribution trace in relation to the Stokesian diameter of the particles.

Sediment grain size distributions were analyzed with an HP 9825A desktop computer and plotted with an HP 9862A plotter (unpublished program is available on request from MDR). Data were plotted as weight percent histograms and cumulative weight percent for all phi-sizes through 14 ϕ . The fraction finer than 12 ϕ was equally divided between the 12 to 13 ϕ and 13 to 14 ϕ intervals. Percentages of gravel (< -1.0 ϕ), sand (-1.0 to 4.0 ϕ), silt (4.0 to 8.0 ϕ), and clay (> 8.0 ϕ) were tabulated. The mean phi, standard deviation, skewness, kurtosis, and normalized kurtosis were calculated according to the graphic formula of Folk and Ward (1957).

Percent CaCO_3 analysis was accomplished with a gasometric apparatus based on the design of Hulsemann (1966). Sediment subsamples were dried at 105°C for 24 hr,

ground in a mortar and pestle, and stored in a desiccator prior to analysis. A weighed portion (200-500 mg dry weight) of the subsample was added directly to a flask from the weighing paper, and the amount of sediment adhering to the paper was subtracted to obtain the exact weight. A magnetic stir bar was added to the flask, and the flask was attached to the apparatus by means of a silicone-greased, ground-glass connection and secured with a joint clamp. Next, a side arm with 5 ml of 4N hydrochloric acid (HCl) was attached in the same manner to the apparatus above the sample flask, and the system was closed off from atmospheric pressure by means of a three-way stopcock. Negative pressure in the system was created by lowering an open flask of mercury connected to a 100-ml burette. After the side arm containing the acid was rotated emptying its contents into the sample flask, the acidified sample was mixed with a magnet and heated with a Bunsen burner until the liquid bubbled up the sides of the flask. The system was allowed to come to thermal equilibrium with laboratory temperature before the mercury manometer was adjusted and the reading recorded. Barometric pressure was noted and recorded before and after each sample run. Two CaCO_3 standards were run at the beginning of the day to test for leaks in the system.

The volume of gas (CO_2) released was corrected to standard temperature and pressure and converted to carbonate as CaCO_3 by means of the formula:

$$\frac{VP}{TW} \times 0.1605 = \% \text{CaCO}_3 \quad (4)$$

where V = observed volume of CO_2 , P = corrected pressure, T = room temperature ($^{\circ}\text{K}$), and W = weight of the sample in grams. Gas pressure was corrected for barometric pressure, water vapor pressure, and temperature. Duplicates from each depth in the core were analyzed. If values of duplicates differed by more than 2%, another replicate was run.

Frozen sediment cores for organic carbon and nitrogen analysis were thawed before extruding and sectioning at 2-cm intervals. Care in sectioning and sampling the core was exercised so that organic contamination (e.g. plastic core liner) was not introduced. The samples of the cores were refrozen and stored until analysis at a later date.

Thawed sediment samples were added to preweighed, precombusted (475°C) beakers and dried at 90°C for 24 hr. After cooling in a desiccator the samples were reweighed and ground to a fine powder in a clean mortar and pestle. Calcium carbonate was removed from the samples by adding excess (approx. 110%) 4N HCl. The amount of acid added was determined a priori from percent CaCO_3 analysis of separate sediment cores. After 12 hr, the acidified samples were brought to seawater pH (8.2) by adding 8N sodium hydroxide (NaOH). A Corning Model 125 pH meter with a calomel reference electrode (ceramic-type junction) was used to monitor pH. Samples were dried at 90°C for 24-36 hr, cooled in a desiccator, then weighed to determine the reacted weight. Finally, the dried samples were ground in a clean mortar and pestle, added to clean vials, sealed, and weighed.

Immediately before weighing a subsample of finely-ground sediment for analysis, the vial was weighed again to correct for absorbed water. Any additional weight due to water absorption was added to the reacted weight value. The subsample (20,000-45,000 μg) was weighed in a precombusted (475°C) aluminum boat and loaded into a Perkin-Elmer Model 240 CHN analyzer for determination of organic carbon and nitrogen. Duplicates from each depth in the core were analyzed. Additional replicates were run if values of duplicates differed by more than 2%.

III. RESULTS

The bulk of data in this report is presented in five appendices. Appendix A contains data on the following sediment acoustic and physical properties: compressional wave velocity (V_p), compressional wave velocity ratio (V_p ratio), compressional wave attenuation (k), porosity, percent calcium carbonate (CaCO_3), percent organic carbon (C), percent organic nitrogen (N), shear strength, percent sand, percent silt, percent clay, mean ϕ (phi), standard deviation, skewness, kurtosis and normalized kurtosis. Sample designator consists of station number followed by subcore number (e.g. 3-4 designates the fourth subcore collected at station 3).

Appendix B contains frequency histograms of grain size distribution data. Grain size data were plotted as weight percent histograms and cumulative weight curves for phi sizes -4 through 14. Also included are percentage gravel, sand,

silt, and clay and mean phi, standard deviation, skewness, kurtosis, and normalized kurtosis.

X-radiographs of sediments collected with the 36 x 44 x 3 cm rectangular subcores are presented in Appendix C. X-radiographs depict sedimentary/biological structure from eight stations and include X-radiographs from all three locations. Images are "positives" produced from the developed X-ray transparency, and thus darker areas of the X-radiograph denote areas of greater sediment density.

Color descriptions of sediments are presented in Appendix D. Color descriptions are depicted as both Munsell® hue/value/chroma designations and soil color names. The "hue" refers to red, yellow, green, blue, and purple. The "value" refers to lightness. The "chroma" refers to strength (departure from a neutral of the same lightness). All descriptions are for sediments collected with subcores except at station 31 where the color was described from a freshly opened box core.

Compressional wave velocity probe measurements are presented in Appendix E.

Appendix F contains sediment shear strength values measured with the hand-held vane shear device.

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APPENDIX A
SEDIMENT ACOUSTIC AND PHYSICAL PROPERTY DATA
FROM BOX CORES COLLECTED IN THE VENEZUELA BASIN

Compressional wave velocity (V_p , m/sec), compressional wave velocity ratio (V_p ratio), attenuation (k), porosity (%), percent calcium carbonate (CaCO_3), percent organic carbon (C), percent organic nitrogen (N), shear strength (g/cm^2), percent sand, percent silt, percent clay, mean ϕ (phi), standard deviation, skewness, kurtosis and normalized kurtosis for sediments collected with cylindrical subcores from box cores in the Venezuela Basin are presented. Sample designator consists of station number followed by subcore number (e.g. 3-4 designates the fourth subcore collected at station 3).

Cruise: CYFL 79G-7 Date: 11/15/79
 Position: 15-14N; 65-14W Depth: 3958m
 Calculated for: 25.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 3-4

Depth (cm)	Vp m/sec	Vp Ratio	Att. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0				77.6												
2.0																
3.0				76.1												
4.0																
5.0				75.1												
6.0																
7.0				74.1												
8.0																
9.0				73.1												
10.0																
11.0				71.9												
12.0																
13.0				71.2												
14.0																
15.0				70.9												
16.0																
17.0				70.9												
18.0																
19.0				70.6												
20.0																
21.0																
22.0																
23.0				72.3												
24.0																
25.0																
26.0				73.2												
27.0																
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				73.0												
34.0																
35.0																
36.0																
37.0				71.9												

Date: 11/15/79
Depth: 3958m
0 m 400 kHz

Cruise: GYRE 79G-7 Sample: 3-5
Position: 15-14N;69-14W
Calculated for: 23.0 Deg-C 35.00 o/oo

Depth (cm)	VF m/sec	VF Ratio	Attr. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0																
2.0																
3.0																
4.0																
5.0																
6.0																
7.0																
8.0																
9.0																
10.0																
11.0																
12.0																
13.0																
14.0																
15.0																
16.0																
17.0																
18.0																
19.0																
20.0																
21.0																
22.0																
23.0																
24.0																
25.0																
26.0																
27.0																
28.0																
29.0																
30.0																
31.0																
32.0																
33.0																
34.0																
35.0																
36.0																
37.0																

Cruise: GYRE 79C-7 Sample: 3-6 Date: 11/15/79
 Position: 15-14N;69-14W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1532.8	1.002							52.37	11.00	36.63	5.35	4.37	0.38	0.61	0.38
1.0	1489.5	0.974														
2.0	1489.5	0.974														
3.0	1489.5	0.974														
4.0	1489.5	0.974														
5.0	1489.5	0.974														
6.0	1489.5	0.974														
7.0	1489.5	0.974														
8.0	1489.5	0.974														
9.0	1489.5	0.974														
10.0	1493.3	0.976														
11.0	1493.3	0.976														
12.0	1493.3	0.976														
13.0	1493.3	0.976														
14.0	1489.5	0.974														
15.0	1493.3	0.976														
16.0	1489.5	0.974														
17.0	1489.5	0.974														
18.0	1489.5	0.974														
19.0	1485.6	0.971														
20.0	1485.6	0.971														
21.0	1481.8	0.969														
22.0	1481.8	0.969														
23.0	1478.1	0.966														
24.0	1478.1	0.966														
25.0	1478.1	0.966														
26.0	1478.1	0.966														
27.0	1478.1	0.966														
28.0	1478.1	0.966														
29.0	1478.1	0.966														
30.0	1478.1	0.966														
31.0	1481.8	0.969														

Cruise: GYRE 79G-7 Sample: 3-7 Date: 11/15/79
 Position: 15-14N:69-14W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. K	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1543.0	1.009														
1.0	1491.4	0.975														
2.0	1491.4	0.975														
3.0	1495.2	0.978														
4.0	1495.2	0.978														
5.0	1495.2	0.978														
6.0	1495.2	0.978														
7.0	1495.2	0.978														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1495.2	0.978														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1495.2	0.978														
17.0	1495.2	0.978														
18.0	1491.4	0.975														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1483.7	0.970														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														

Cruise: GYRL 79C-7 Date: 11/15/79
 Position: 15-14N; 69-14W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 u/oo 0 m 400 kHz

Sample: 3-8

Depth (cm)	Vp m/sec	Vp ratio	Attn. k	% For.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1534.8	1.004														
1.0	1495.2	0.978														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1495.2	0.978														
5.0	1495.2	0.978														
6.0	1495.2	0.978														
7.0	1495.2	0.978														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1495.2	0.978														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1491.4	0.975														
16.0	1491.4	0.975														
17.0	1491.4	0.975														
18.0	1487.5	0.973														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1479.9	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1483.7	0.970														
27.0	1483.7	0.970														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1483.7	0.970														

Cruise: GYKE 79G-7 Sample: 3-9 Date: 11/15/79
 Position: 15-14N;69-14W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1530.8	1.001														
1.0	1506.9	0.965		77.7												
2.0	1499.1	0.980														
3.0	1491.4	0.975		76.4												
4.0	1483.7	0.970														
5.0	1483.7	0.970		75.1												
6.0	1491.4	0.975														
7.0	1491.4	0.975		74.0												
8.0	1499.1	0.980														
9.0	1499.1	0.980		73.2												
10.0	1499.1	0.980														
11.0	1499.1	0.980		72.1												
12.0	1499.1	0.980														
13.0	1499.1	0.980		70.8												
14.0	1499.1	0.980														
15.0	1499.1	0.980		70.8												
16.0	1499.1	0.980														
17.0	1499.1	0.980		71.3												
18.0	1491.4	0.975														
19.0	1491.4	0.975		71.7												
20.0	1491.4	0.975														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1483.7	0.970		72.4												
24.0	1483.7	0.970														
25.0	1483.7	0.970														
26.0	1483.7	0.970														
27.0	1483.7	0.970		74.0												
28.0	1483.7	0.970														
29.0	1483.7	0.970														
30.0	1483.7	0.970														
31.0																
32.0																
33.0				72.8												
34.0																
35.0																
36.0																
37.0				72.1												

Cruise: GYLS 79C-7 Date: 11/15/79
 Position: 15-14N; 69-14W Depth: 3958m.
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Sample: 3-10

Depth (cm)	VF m/sec	VF ratio	Attn. K	% For.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.2	0.983														
1.0	1495.4	0.978		77.4	67.58				54.68	10.56	34.76	4.99	4.37	0.60	0.59	0.37
2.0	1495.4	0.978														
3.0	1495.4	0.978		76.7	67.98				53.32	10.81	35.87	4.99	4.41	0.54	0.59	0.37
4.0	1495.4	0.978														
5.0	1495.4	0.978		75.6	66.67				49.57	11.60	38.83	5.57	4.43	0.27	0.59	0.37
6.0	1495.4	0.978														
7.0	1495.4	0.978		73.5	68.51				47.15	12.95	39.90	5.89	4.36	0.21	0.59	0.37
8.0	1495.4	0.978														
9.0	1495.4	0.978		72.7	68.55				47.57	12.79	39.64	5.83	4.34	0.21	0.59	0.37
10.0	1495.4	0.978														
11.0	1495.4	0.978		71.9	66.95				46.12	13.96	39.92	5.86	4.34	0.19	0.59	0.37
12.0	1495.4	0.978														
13.0	1495.4	0.978		70.8	66.04				42.71	14.99	42.29	6.20	4.34	0.09	0.59	0.37
14.0	1495.4	0.978														
15.0	1495.4	0.978		70.6	67.56				42.44	15.79	41.77	6.08	4.35	0.11	0.59	0.37
16.0	1495.4	0.978														
17.0	1491.5	0.975		71.1	67.45				34.31	17.50	48.19	6.94	4.34	-0.14	0.61	0.38
18.0	1491.5	0.975														
19.0	1487.7	0.973		71.5	66.86				31.52	19.73	48.75	7.05	4.29	-0.15	0.63	0.39
20.0	1487.7	0.973														
21.0	1487.7	0.973		72.4	70.05				31.34	19.84	48.82	7.06	4.28	-0.15	0.64	0.39
22.0	1483.9	0.970														
23.0	1483.9	0.970		72.6	71.61				32.78	19.39	47.63	6.97	4.20	-0.13	0.65	0.39
24.0	1483.9	0.970														
25.0	1483.9	0.970		73.6	75.76				35.55	19.38	45.08	6.68	4.15	-0.04	0.64	0.39
26.0	1483.9	0.970														
27.0	1483.9	0.970														
28.0	1483.9	0.970														
29.0	1483.9	0.970		72.7	71.55				30.06	21.25	48.63	7.11	4.09	-0.15	0.67	0.40
30.0	1483.9	0.970														
31.0																
32.0				71.4	64.09				24.30	20.97	54.66	7.60	3.99	-0.27	0.74	0.43
33.0																

Cruise: GYRE 79G-7 Date: 11/16/79
 Position: 15-14N; 69-14W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 5-1

Depth (cm)	VF m/sec	VF ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1503.0	0.983														
2.0	1495.2	0.978														
3.0	1495.2	0.978														
4.0	1495.2	0.978														
5.0	1495.2	0.978														
6.0	1495.2	0.978														
7.0	1495.2	0.978														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1495.2	0.978														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1495.2	0.978														
17.0	1495.2	0.978														
18.0	1491.4	0.975														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1479.5	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1479.9	0.968														
27.0	1479.5	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.5	0.968														
31.0	1483.7	0.970														

Cruise: GYRE 79G-7 Sample: 5-2 Date: 11/16/79
 Position: 15-13N; 69-17W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 σ_{θ} 0 m 400 kHz

Depth (cm)	VF m/sec	VF Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0									51.33	11.89	36.78	5.66	4.75	0.50	0.59	0.37
1.0				78.1												
2.0									53.41	9.79	35.31	5.67	4.85	0.60	0.58	0.37
3.0				77.2												
4.0									49.06	12.94	38.00	5.78	4.58	0.35	0.60	0.37
5.0				76.9												
6.0									47.42	11.78	40.80	6.11	4.60	0.23	0.59	0.37
7.0				74.5												
8.0									49.90	11.35	38.75	5.63	4.60	0.43	0.59	0.37
9.0				73.3												
10.0									46.58	12.92	40.50	6.19	4.61	0.21	0.60	0.37
11.0				72.4												
12.0									44.31	14.31	41.38	6.23	4.57	0.16	0.59	0.37
13.0				71.3												
14.0									40.36	16.95	42.68	6.59	4.52	0.04	0.59	0.37
15.0				70.8												
16.0									38.39	16.55	45.05	6.71	4.55	0.01	0.59	0.37
17.0				71.0												
18.0									34.35	17.70	47.95	7.07	4.49	-0.10	0.61	0.38
19.0				72.0												
20.0																
21.0																
22.0									31.50	19.16	49.35	7.33	4.47	-0.12	0.64	0.39
23.0				73.1												
24.0																
25.0																
26.0									34.15	17.92	47.92	7.04	4.34	-0.12	0.64	0.39
27.0				74.7												
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				71.7					29.88	18.73	51.39	7.45	4.34	-0.19	0.66	0.40

Cruise: GYAB 79G-7 Sample: 5-4 Date: 11/16/79
 Position: 15-13N; 69-17W Depth: 3958m
 Calculated for: 23.0 deg-C 35.00 g/100 0 m 400 kHz

Depth (cm)	VE m/sec	VE Ratio	Attr. K	% Pcr.	% CaCO ₃	% C	% N	% Shear Str.	% Sano	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0	1459.1	0.980		75.3	66.14				50.95	9.35	39.70	5.43	4.52	0.47	0.59	0.37
2.0	1495.2	0.978							50.50	10.05	39.45	5.32	4.46	0.44	0.58	0.37
3.0	1495.2	0.978		76.0	65.50											
4.0	1495.2	0.978							49.38	10.49	40.14	5.64	4.44	0.33	0.60	0.37
5.0	1495.2	0.978		74.8	63.39											
6.0	1495.2	0.978							46.63	11.90	41.48	6.02	4.43	0.17	0.59	0.37
7.0	1491.4	0.975		73.7	65.66											
8.0	1491.4	0.975							47.16	13.36	39.48	5.81	4.40	0.21	0.59	0.37
9.0	1491.4	0.975		73.5	65.14											
10.0	1491.4	0.975							41.65	16.58	41.77	6.33	4.41	0.04	0.59	0.37
11.0	1491.4	0.975		73.0	65.79											
12.0	1491.4	0.975							37.64	16.40	45.96	6.71	4.42	-0.05	0.60	0.37
13.0	1491.4	0.975		71.7	65.48											
14.0	1491.4	0.975							38.62	16.31	45.02	6.54	4.44	-0.02	0.60	0.37
15.0	1491.4	0.975		70.9	63.65											
16.0	1487.5	0.973							37.88	15.61	46.51	6.69	4.43	-0.07	0.59	0.37
17.0	1487.5	0.973		71.2	64.86											
18.0	1487.5	0.973							33.76	17.72	48.52	7.00	4.39	-0.15	0.62	0.38
19.0	1487.5	0.973		71.5	66.53											
20.0	1487.5	0.973							29.19	20.05	50.70	7.28	4.33	-0.21	0.67	0.40
21.0	1483.7	0.970		72.3	69.89											
22.0	1479.9	0.968							27.55	20.64	51.82	7.41	4.19	-0.24	0.69	0.41
23.0	1479.9	0.968		72.7	69.90											
24.0	1479.9	0.968							31.90	20.67	47.23	7.04	4.24	-0.09	0.66	0.40
25.0	1479.9	0.968		73.1	73.52											
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968		73.6	76.77											
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														
32.0	1479.9	0.968		73.6	62.92				28.39	20.05	51.56	7.35	4.11	-0.23	0.69	0.41

Cruise: GYRE 79G-7 Date: 11/16/79
 Position: 15-13N; 69-17W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 c/cc 0 m 400 kHz

Sample: 5-5

Depth (cm)	VF m/sec	VF Ratio	Attr. K	% For.	% CaCO3	% C	% N	Shear Str.	% Sara	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1465.0	0.958														
1.0	1499.1	0.960														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1491.4	0.975														
5.0	1491.4	0.975														
6.0	1491.4	0.975														
7.0	1495.2	0.978														
8.0	1491.4	0.975														
9.0	1491.4	0.975														
10.0	1491.4	0.975														
11.0	1491.4	0.975														
12.0	1495.2	0.976														
13.0	1495.2	0.976														
14.0	1495.2	0.976														
15.0	1495.2	0.976														
16.0	1491.4	0.975														
17.0	1491.4	0.975														
18.0	1491.4	0.975														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1487.5	0.973														
22.0	1483.7	0.970														
23.0	1483.7	0.970														
24.0	1483.7	0.970														
25.0	1483.7	0.970														
26.0	1483.7	0.970														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														
32.0	1483.7	0.970														

Date: 11/16/79
Depth: 3958m
0 m 400 kHz

Cruise: GYRE 79G-7 Sample: 5-6
Position: 15-13N; 65-17W
Calculated for: 23.0 Deg-C 35.00 c/oo

Depth (cm)	Vp m/sec	Vp ratio	Att. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0																
2.0																
3.0																
4.0																
5.0																
6.0																
7.0																
8.0																
9.0																
10.0																
11.0																
12.0																
13.0																
14.0																
15.0																
16.0																
17.0																
18.0																
19.0																
20.0																
21.0																
22.0																
23.0																
24.0																
25.0																
26.0																
27.0																
28.0																
29.0																
30.0																
31.0																
32.0																
33.0																
34.0																
35.0																
36.0																
37.0																

Cruise: GYRE 79G-7 Sample: 5-7 Date: 11/16/79
 Position: 15-13N; 69-17W Depth: 3956m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	vp m/sec	vp ratio	Attn. k	% FOR.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0				77.7												
2.0																
3.0				77.5												
4.0																
5.0				76.3												
6.0																
7.0				74.4												
8.0																
9.0				73.9												
10.0																
11.0				73.3												
12.0																
13.0				72.4												
14.0																
15.0				70.9												
16.0																
17.0				71.1												
18.0																
19.0				71.0												
20.0																
21.0																
22.0																
23.0				72.2												
24.0																
25.0																
26.0				73.0												
27.0																
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				73.8												
34.0																
35.0																
36.0																
37.0				71.7												
38.0																
39.0																
40.0																
41.0				72.8												

Cruise: CYRE 79G-7 Sample: 5-14 Date: 11/16/79
 Position: 15-13N;69-17W Depth: 3958m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1526.7	0.998														
1.0	1495.2	0.978														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1491.4	0.975														
5.0	1491.4	0.975														
6.0	1491.4	0.975														
7.0	1491.4	0.975														
8.0	1491.4	0.975														
9.0	1491.4	0.975														
10.0	1491.4	0.975														
11.0	1491.4	0.975														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1487.5	0.973														
17.0	1487.5	0.973														
18.0	1487.5	0.973														
19.0	1483.7	0.970														
20.0	1483.7	0.970														
21.0	1479.9	0.968														
22.0	1479.9	0.968														
23.0	1479.9	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														

Cruise: LYNCH 708-80 Date: 7/8/80
 Position: 13-46N:67-45W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Sample: 9-1

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0									1.31	16.09	82.59	9.97	2.04	-0.18	1.27	0.56
1.0	1491.4	0.975														
2.0	1483.7	0.970														
3.0	1483.7	0.970														
4.0	1479.9	0.968														
5.0	1479.9	0.968														
6.0	1479.9	0.968														
7.0	1479.9	0.968														
8.0	1479.9	0.968														
9.0	1479.9	0.968														
10.0	1479.9	0.968														
11.0	1479.9	0.968														
12.0	1479.9	0.968														
13.0	1487.5	0.973														
14.0	1491.4	0.975														
15.0	1499.1	0.980														
16.0	1499.1	0.980														
17.0	1487.5	0.973														
18.0	1491.4	0.975														
19.0	1510.8	0.988														
20.0	1510.8	0.988														
21.0	1530.8	1.001														
22.0	1551.3	1.014														
23.0	1506.9	0.985														
24.0	1483.7	0.970														
25.0	1479.9	0.968														

Cruise: LYNCH 708-80 Date: 7/8/80
 Position: 15-46N 76-45W Depth: 5054m
 Calculated for: 23.0 Leg-C Sample: 9-2 0 m 400 kHz

Depth (cm)	VP m/sec	VP ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0	1459.1	0.980		61.0					0.52	17.37	82.11	9.92	2.04	-0.18	1.18	0.54
2.0	1467.5	0.973		60.0					1.87	16.21	81.92	9.83	1.98	-0.24	1.24	0.55
3.0	1467.5	0.973														
4.0	1483.7	0.970		79.1					0.33	15.50	80.17	9.86	2.10	-0.14	1.11	0.52
5.0	1483.7	0.970														
6.0	1483.7	0.970		76.5					0.16	18.30	81.54	9.89	2.00	-0.17	1.13	0.53
7.0	1483.7	0.970														
8.0	1479.5	0.968		75.0					0.00	20.42	79.58	9.85	2.10	-0.14	1.05	0.51
9.0	1479.5	0.968														
10.0	1483.7	0.970		70.7					0.14	28.25	71.57	9.38	2.15	-0.12	0.94	0.48
11.0	1483.7	0.970														
12.0	1491.4	0.975		65.5					0.52	28.49	70.99	9.33	2.17	-0.18	0.96	0.49
13.0																
14.0				71.0												
15.0																
16.0				68.4												
17.0																
18.0				60.6												
19.0																
20.0				72.3												
21.0																
22.0				76.5												
23.0																
24.0				75.1												
25.0																

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N; 67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oc 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1484.0	0.970		84.9					0.25	15.03	84.72	10.47	2.19	-0.09	0.89	0.47
2.0	1484.0	0.970														
3.0	1484.0	0.970		80.3					0.23	15.61	84.17	10.23	2.07	-0.12	0.99	0.50
4.0	1480.2	0.968														
5.0	1480.2	0.968		78.1					0.54	15.97	83.49	10.31	2.21	-0.08	0.91	0.48
6.0	1480.2	0.968														
7.0	1480.2	0.968		76.6					0.08	16.14	83.78	10.36	2.20	-0.04	0.84	0.46
8.0	1480.2	0.968														
9.0	1484.0	0.970		75.2					0.08	17.05	82.87	10.31	2.22	-0.04	0.84	0.46
10.0	1491.6	0.975														
11.0	1495.5	0.978		71.1					0.23	25.80	73.97	9.71	2.33	-0.03	0.86	0.46
12.0	1487.8	0.973														
13.0	1484.0	0.970		72.8					0.14	26.86	72.99	9.73	2.38	-0.03	0.84	0.46
14.0	1484.0	0.970														
15.0	1484.0	0.970		73.1												
16.0	1484.0	0.970														
17.0	1484.0	0.970		74.9												
18.0	1487.8	0.973														
19.0	1487.8	0.973		72.9												
20.0	1487.8	0.973														
21.0	1495.5	0.978														
22.0	1495.5	0.978														
23.0	1507.2	0.985		68.5												
24.0	1511.1	0.988														
25.0	1499.3	0.980														
26.0	1484.0	0.970														
27.0	1480.2	0.968		74.4												
28.0	1480.2	0.968														

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 14-7

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975							1.08	14.37	84.56	10.21	2.08	-0.09	1.12	0.53
1.0	1484.0	0.970														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1480.2	0.968														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-8 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1480.2	0.968														
11.0	1487.8	0.973														
12.0	1487.8	0.973														
13.0	1495.5	0.978														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1495.5	0.978														
19.0	1503.2	0.983														
20.0	1491.6	0.975														
21.0	1484.0	0.970														
22.0	1476.4	0.965														
23.0	1480.2	0.968														

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 14-9

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1511.1	0.988														
1.0	1495.5	0.978		85.0					0.82	26.57	72.62	9.41	2.62	-0.26	1.01	0.50
2.0	1484.0	0.970														
3.0	1484.0	0.970		82.7					0.46	16.08	83.47	10.10	2.07	-0.12	1.06	0.52
4.0	1484.0	0.970														
5.0	1484.0	0.970		77.3					0.10	17.91	82.00	9.97	2.06	-0.12	1.04	0.51
6.0	1484.0	0.970														
7.0	1484.0	0.970		80.8					0.15	16.67	83.18	10.02	2.01	-0.12	1.10	0.52
8.0	1484.0	0.970														
9.0	1484.0	0.970		74.0					0.00	20.84	79.16	9.81	2.06	-0.11	1.01	0.50
10.0	1487.8	0.973														
11.0	1491.7	0.975		72.1					0.12	25.05	74.83	9.50	2.07	-0.12	0.99	0.50
12.0	1495.5	0.978														
13.0	1495.5	0.978		73.5					0.23	28.21	71.56	9.41	2.16	-0.10	0.93	0.48
14.0	1484.0	0.970														
15.0	1484.0	0.970		73.6												
16.0	1484.0	0.970														
17.0	1480.2	0.968		75.7												
18.0	1480.2	0.968														
19.0	1480.2	0.968		73.4												
20.0	1487.8	0.973														
21.0	1487.8	0.973		72.4												
22.0	1491.7	0.975														
23.0	1495.5	0.978		72.2												
24.0	1499.4	0.980														
25.0	1507.2	0.985		69.0												
26.0	1515.1	0.991														
27.0	1507.2	0.985		66.5												
28.0	1487.8	0.973														
29.0	1480.2	0.968		73.8												
30.0	1476.4	0.965														
31.0				79.3												
32.0																
33.0				75.9												

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 σ_{oo} 0 m 400 kHz

Sample: 14-10

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.4	0.980														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1487.8	0.973														
11.0	1487.8	0.973														
12.0	1487.8	0.973														
13.0	1491.7	0.975														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1480.2	0.968														
17.0	1480.2	0.968														
18.0	1480.2	0.968														
19.0	1484.0	0.970														
20.0	1487.8	0.973														
21.0	1487.8	0.973														
22.0	1491.7	0.975														
23.0	1495.5	0.978														
24.0	1507.2	0.985														
25.0	1515.1	0.991														
26.0	1491.7	0.975														
27.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-11 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.4	0.980														
1.0	1484.0	0.970														
2.0	1484.0	0.970														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1487.8	0.973														
12.0	1487.8	0.973														
13.0	1491.7	0.975														
14.0	1487.8	0.973														
15.0	1480.2	0.968														
16.0	1480.2	0.968														
17.0	1480.2	0.968														
18.0	1480.2	0.968														
19.0	1484.0	0.970														
20.0	1487.8	0.973														
21.0	1487.8	0.973														
22.0	1487.8	0.973														
23.0	1491.7	0.975														
24.0	1495.5	0.978														
25.0	1507.2	0.985														
26.0	1503.3	0.983														
27.0	1484.0	0.970														
28.0	1476.4	0.965														
29.0	1476.4	0.965														
30.0	1476.4	0.965														

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 14-12

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1480.2	0.968														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-13 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1495.5	0.978														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1480.2	0.968														
11.0	1484.0	0.970														
12.0	1487.8	0.973														
13.0	1487.8	0.973														
14.0	1491.7	0.975														
15.0	1484.0	0.970														
16.0	1480.2	0.968														
17.0	1480.2	0.968														
18.0	1480.2	0.968														
19.0	1480.2	0.968														
20.0	1480.2	0.968														
21.0	1484.0	0.970														
22.0	1487.8	0.973														
23.0	1495.5	0.978														
24.0	1495.5	0.978														
25.0	1487.8	0.973														

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Sample: 14-14

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1491.6	0.975														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1487.8	0.973														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1491.6	0.975														
13.0	1491.6	0.975														
14.0	1491.6	0.975														
15.0	1487.8	0.973														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1487.8	0.973														
21.0	1495.5	0.978														
22.0	1503.2	0.983														
23.0	1503.2	0.983														
24.0	1487.8	0.973														
25.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-15 Date: 7/23/80
 Position: 13-5N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.3	0.980														
1.0	1487.8	0.973														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1487.8	0.973														
13.0	1491.6	0.975														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1484.0	0.970														
21.0	1484.0	0.970														
22.0	1491.6	0.975														
23.0	1495.5	0.978														
24.0	1507.2	0.985														
25.0	1491.6	0.975														
26.0	1484.0	0.970														
27.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-16 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1491.6	0.975														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1491.6	0.975														
13.0	1491.6	0.975														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1484.0	0.970														
21.0	1484.0	0.970														
22.0	1487.8	0.973														
23.0	1495.5	0.978														
24.0	1487.8	0.973														
25.0	1480.2	0.968														
26.0	1480.2	0.968														

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 14-17

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1511.1	0.988														
1.0	1499.3	0.980														
2.0	1491.6	0.975														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1487.8	0.973														
6.0	1487.8	0.973														
7.0	1487.8	0.973														
8.0	1487.8	0.973														
9.0	1487.8	0.973														
10.0	1484.0	0.970														
11.0	1487.8	0.973														
12.0	1491.6	0.975														
13.0	1491.6	0.975														
14.0	1487.8	0.973														
15.0	1487.8	0.973														
16.0	1487.8	0.973														
17.0	1487.8	0.973														
18.0	1487.8	0.973														
19.0	1487.8	0.973														
20.0	1487.8	0.973														
21.0	1491.6	0.975														
22.0	1491.6	0.975														
23.0	1495.5	0.978														
24.0	1499.3	0.980														
25.0	1507.2	0.985														
26.0	1511.1	0.988														
27.0	1491.6	0.975														
28.0	1484.0	0.970														
29.0	1480.2	0.968														
30.0	1480.2	0.968														
31.0	1480.2	0.968														

Cruise: LYNCH 708-80
 Position: 13-50N;67-39W
 Calculated for: 23.0 Deg-C 35.00 o/oo

Date: 7/23/80
 Depth: 5054m
 0 m 400 kHz

Sample: 14-18
 Shear Str. 35.00 o/oo

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.2	0.983														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1487.8	0.973														
10.0	1487.8	0.973														
11.0	1487.8	0.973														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1491.6	0.975														
18.0	1495.5	0.978														
19.0	1495.5	0.978														
20.0	1499.3	0.980														
21.0	1495.5	0.978														
22.0	1480.2	0.968														
23.0	1480.2	0.968														
24.0	1480.2	0.968														

Cruise: LYNCH 708-80 Date: 7/23/80
 Position: 13-50N;67-39W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 14-19

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1484.0	0.970														
1.0	1487.8	0.973														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1487.8	0.973														
13.0	1487.8	0.973														
14.0	1487.8	0.973														
15.0	1487.8	0.973														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1491.6	0.975														
21.0	1499.3	0.980														
22.0	1511.1	0.988														
23.0	1499.3	0.980														
24.0	1484.0	0.970														
25.0	1484.0	0.970														

Cruise: LYNCH 708-80
 Position: 13-50N;67-39W
 Calculated for: 23.0 Deg-C

Sample: 14-20
 35.00 o/oo

Date: 7/23/80
 Depth: 5054m
 0 m 400 kHz

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1487.8	0.973														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1487.8	0.973														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1487.8	0.973														
16.0	1487.8	0.973														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1484.0	0.970														
21.0	1484.0	0.970														
22.0	1484.0	0.970														
23.0	1487.8	0.973														
24.0	1491.6	0.975														
25.0	1495.5	0.978														
26.0	1499.3	0.980														
27.0	1511.1	0.988														
28.0	1511.1	0.988														
29.0	1495.5	0.978														
30.0	1484.0	0.970														
31.0	1484.0	0.970														
32.0	1484.0	0.970														
33.0	1484.0	0.970														

Cruise: LYNCH 708-80 Date: 7/24/80
 Position: 15-45N; 67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 g/cc 0 m 400 kHz

Sample: 16-1

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1491.6	0.975														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1487.8	0.973														
16.0	1491.6	0.975														
17.0	1499.3	0.980														

Cruise: LYNCH 708-80 Sample: 16-2 Date: 7/24/80
 Position: 13-45;N67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.2	0.983														
1.0	1491.6	0.975														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1487.8	0.973														

Cruise: LYNCH 708-80 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Sample: 16-3

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1506.9	0.985														
2.0	1495.2	0.978														
3.0	1491.4	0.975														
4.0	1487.5	0.973														
5.0	1487.5	0.973														
6.0	1487.5	0.973														
7.0	1487.5	0.973														
8.0	1487.5	0.973														
9.0	1487.5	0.973														
10.0	1487.5	0.973														
11.0	1487.5	0.973														
12.0	1487.5	0.973														
13.0	1491.4	0.975														
14.0	1499.1	0.980														

Cruise: LYNCH 708-80 Sample: 16-4 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1491.6	0.975														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1484.0	0.970														
16.0	1491.6	0.975														
17.0	1499.3	0.980														

Cruise: LYNCH 708-80 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 16-5

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1495.5	0.978														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1487.8	0.973														
12.0	1491.6	0.975														
13.0	1507.2	0.985														
14.0	1507.2	0.985														
15.0	1499.3	0.980														
16.0	1511.1	0.988														
17.0	1487.8	0.973														

Cruise: LYNCH 708-80 Date: 7/24/80
 Position: 13-45N;67-40W Sample: 16-6
 Calculated for: 23.0 Deg-C 35.00 d/oo Depth: 5054m
 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1487.8	0.973														
9.0	1495.5	0.978														
10.0	1495.5	0.978														
11.0	1499.3	0.980														
12.0	1499.3	0.980														
13.0	1503.2	0.983														
14.0	1503.2	0.983														
15.0	1495.5	0.978														

Cruise: LYNCH 708-80 Sample: 16-7 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 σ_{00} 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1491.6	0.975														
10.0	1495.5	0.978														
11.0	1503.2	0.983														
12.0	1499.3	0.980														
13.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 16-8 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	vp m/sec	VP Ratio	Attn. k	% por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1503.2	0.983														
2.0	1491.6	0.975														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1487.8	0.973														
9.0	1495.5	0.978														
10.0	1503.2	0.983														
11.0	1511.1	0.988														

Cruise: LYNCH 708-80 Sample: 16-9 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.2	0.980														
1.0	1491.4	0.975														
2.0	1487.6	0.973														
3.0	1487.6	0.973														
4.0	1487.6	0.973														
5.0	1487.6	0.973														
6.0	1487.6	0.973														
7.0	1487.6	0.973														
8.0	1487.6	0.973														
9.0	1487.6	0.973														
10.0	1487.6	0.973														
11.0	1491.4	0.975														
12.0	1499.2	0.980														
13.0	1507.0	0.985														
14.0	1507.0	0.985														
15.0	1507.0	0.985														
16.0	1510.9	0.988														
17.0	1510.9	0.988														
18.0	1487.6	0.973														
19.0	1480.0	0.968														
20.0	1483.8	0.970														

Cruise: LYNCH 708-80
 Position: 13-45N; 67-40W
 Calculated for: 23.0 Deg-C 35.00 g/oo

Date: 7/24/80
 Depth: 5054m
 0 m 400 kHz

Sample: 16-10
 Deg-C 35.00 g/oo

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
2.0	1507.0	0.985														
3.0	1507.0	0.985														
4.0	1499.2	0.980														
5.0	1503.1	0.983														
6.0	1510.9	0.988														
7.0	1514.8	0.990														
8.0	1514.8	0.990														
9.0	1510.9	0.988														
10.0	1503.1	0.983														
11.0	1483.8	0.970														
12.0	1483.8	0.970														

Cruise: LYNCH 708-80 Sample: 16-11 Date: 7/24/80
 Position: 13-45N; 67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.3	0.978														
1.0	1491.4	0.975														
2.0	1487.6	0.973														
3.0	1487.6	0.973														
4.0	1487.6	0.973														
5.0	1483.8	0.970														
6.0	1483.8	0.970														
7.0	1483.8	0.970														
8.0	1483.8	0.970														
9.0	1483.8	0.970														
10.0	1483.8	0.970														
11.0	1487.6	0.973														
12.0	1499.2	0.980														
13.0	1510.9	0.988														

Cruise: LYNCH 708-80 Sample: 16-12 Date: 7/24/80
 Position: 13-45N;67-40W Depth: 5054m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1503.1	0.983														
2.0	1503.1	0.983														
3.0	1518.8	0.993														
4.0	1522.8	0.996														
5.0	1510.9	0.988														
6.0	1495.3	0.976														
7.0	1495.3	0.978														
8.0	1499.2	0.980														
9.0	1499.2	0.980														
10.0	1503.1	0.983														
11.0	1507.0	0.985														
12.0	1510.9	0.988														
13.0	1581.0	1.034														
14.0	1547.2	1.012														
15.0	1495.3	0.978														
16.0	1480.0	0.968														
17.0	1480.0	0.968														
18.0	1480.0	0.968														
19.0	1480.0	0.968														
20.0	1480.0	0.968														

Cruise: LYNCH 708-80 Date: 7/25/80
 Position: 13-32N;64-45W Depth: 3517m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 17-1

Depth (cm)	VF m/sec	VF ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1495.2	0.976		80.3					14.04	12.02	73.94	9.47	3.72	-0.41	1.17	0.54
2.0	1487.5	0.973							12.80	12.12	75.09	9.60	3.60	-0.40	1.23	0.55
3.0	1487.5	0.973		79.8												
4.0	1487.5	0.973							10.41	12.80	76.79	9.97	3.36	-0.37	1.24	0.55
5.0	1487.5	0.973		79.3												
6.0	1487.5	0.973							8.80	12.83	78.37	10.14	3.21	-0.33	1.28	0.56
7.0	1487.5	0.973		79.2												
8.0	1487.5	0.973		78.3					6.46	15.86	77.68	10.14	3.03	-0.31	1.14	0.53
9.0	1487.5	0.973							5.95	15.46	78.59	10.21	2.93	-0.30	1.21	0.55
10.0	1487.5	0.973		78.4												
11.0	1487.5	0.973							5.10	14.92	79.98	10.24	2.83	-0.28	1.13	0.53
12.0	1487.5	0.973		77.4												
13.0	1487.5	0.973							5.97	13.50	80.53	10.26	2.91	-0.34	1.29	0.56
14.0	1487.5	0.973		76.1												
15.0	1487.5	0.973							4.24	11.66	84.09	10.38	2.49	-0.24	1.36	0.58
16.0	1491.4	0.975		76.1												
17.0	1491.4	0.975							5.71	13.90	80.39	10.14	2.82	-0.29	1.29	0.56
18.0	1491.4	0.975		75.3												
19.0	1491.4	0.975														
20.0	1491.4	0.975														
21.0	1491.4	0.975														
22.0	1491.4	0.975														
23.0	1491.4	0.975		75.6					6.43	14.94	78.63	10.06	3.00	-0.30	1.24	0.55
24.0																
25.0																
26.0																
27.0				75.4					11.29	15.07	73.64	9.56	3.46	-0.37	1.21	0.55

Cruise: LYNCH 708-80 Sample: 17-2 Date: 7/25/80
 Position: 13-32N;64-45W Depth: 3517m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1510.8	0.988							11.07	12.26	76.67	9.63	3.26	-0.42	1.56	0.61
1.0	1499.1	0.980														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1495.2	0.978														
5.0	1491.4	0.975														
6.0	1491.4	0.975														
7.0	1491.4	0.975														
8.0	1491.4	0.975														
9.0	1491.4	0.975														
10.0	1491.4	0.975														
11.0	1491.4	0.975														
12.0	1491.4	0.975														
13.0	1491.4	0.975														
14.0	1487.5	0.973														
15.0	1487.5	0.973														
16.0	1487.5	0.973														
17.0	1487.5	0.973														
18.0	1491.4	0.975														
19.0	1495.2	0.978														
20.0	1495.2	0.978														
21.0	1491.4	0.975														
22.0	1491.4	0.975														
23.0	1491.4	0.975														
24.0	1499.1	0.980														

Cruise: LYNCH 708-80 Date: 7/25/80
 Position: 13-32N;64-45W Depth: 3517m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Sample: 17-3

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.0	0.983							18.34	11.25	70.42	8.31	4.11	-0.56	1.22	0.55
1.0	1495.2	0.978		81.6	28.74											
2.0	1491.4	0.975							12.64	11.98	75.38	9.41	3.32	-0.46	1.56	0.61
3.0	1491.4	0.975		80.4	26.65											
4.0	1491.4	0.975							12.31	12.10	75.59	9.46	3.27	-0.44	1.56	0.61
5.0	1491.4	0.975		79.5	27.74											
6.0	1491.4	0.975							13.53	15.79	70.68	9.32	3.37	-0.47	1.36	0.58
7.0	1491.4	0.975		79.1	25.50											
8.0	1495.2	0.978							12.49	11.60	75.91	9.41	3.36	-0.46	1.64	0.62
9.0	1491.4	0.975		78.9	24.52											
10.0	1491.4	0.975							7.40	13.23	79.38	9.88	2.89	-0.38	1.67	0.63
11.0	1491.4	0.975		77.8	22.32											
12.0	1491.4	0.975							5.20	16.28	78.51	9.79	2.69	-0.36	1.39	0.58
13.0	1491.4	0.975		76.3	23.08											
14.0	1491.4	0.975							5.07	12.20	82.73	10.05	2.49	-0.32	1.69	0.63
15.0	1491.4	0.975		75.9	22.32											
16.0	1491.4	0.975							5.92	12.06	82.02	9.79	2.43	-0.43	2.01	0.67
17.0	1495.2	0.978		74.7	22.53											
18.0	1495.2	0.978							4.86	12.41	82.73	10.01	2.43	-0.31	1.76	0.64
19.0	1491.4	0.975		74.7	23.92											
20.0	1491.4	0.975							6.18	13.70	80.12	9.78	2.66	-0.35	1.73	0.63
21.0	1491.4	0.975		74.1	24.21											
22.0	1491.4	0.975							6.16	15.27	78.57	9.74	2.70	-0.37	1.60	0.62
23.0				74.2	24.78											
24.0									5.74	16.24	78.03	9.72	2.70	-0.37	1.54	0.61
25.0				75.2	24.88											
26.0									6.64	18.28	75.08	9.61	2.94	-0.39	1.34	0.57
27.0				75.9	25.36											

Cruise: LYNCH 708-80 Sample: 18-1 Date: 7/26/80
 Position: 13-25N;64-47W Depth: 3517m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 KHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.1	0.983		83.1	24.24				13.80	11.30	74.90	9.17	3.44	-0.50	1.65	0.62
1.0	1495.5	0.978														
2.0	1491.4	0.975		81.7	22.58				9.66	11.38	78.95	9.57	2.85	-0.49	1.93	0.66
3.0	1491.4	0.975														
4.0	1487.6	0.973		80.3	21.38				9.29	11.58	79.13	9.75	2.93	-0.43	1.82	0.65
5.0	1491.4	0.975														
6.0	1491.4	0.975		80.9	20.46				7.61	11.83	80.55	9.81	2.74	-0.41	1.94	0.66
7.0	1487.6	0.973														
8.0	1487.6	0.973		78.8	20.38				6.66	14.99	78.35	9.54	2.63	-0.47	1.73	0.63
9.0	1491.4	0.975														
10.0	1491.4	0.975		77.8	21.99				9.22	12.73	78.05	9.36	2.75	-0.56	1.87	0.65
11.0	1491.4	0.975														
12.0	1491.4	0.975		77.6	20.54				5.10	14.56	80.33	9.72	2.43	-0.41	1.67	0.63
13.0	1491.4	0.975														
14.0	1491.4	0.975		77.5	20.63				4.82	11.79	83.38	9.72	2.08	-0.47	1.90	0.65
15.0	1491.4	0.975														
16.0	1495.3	0.978		76.2	20.91				5.92	12.65	81.43	9.59	2.31	-0.51	1.89	0.65
17.0	1495.3	0.978														
18.0	1495.3	0.978		75.4	20.74				3.88	12.62	83.50	9.89	2.10	-0.34	1.69	0.63
19.0																
20.0				76.0	24.44				6.04	13.38	80.58	9.63	2.45	-0.46	1.80	0.64
21.0																
22.0				76.2	24.65				7.50	12.95	79.55	9.78	2.77	-0.39	1.74	0.63
23.0																

Cruise: BARTLT 1301-82 Sample: 21-2 Date: 10/18/81
 Position: 15-07N;69-24W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 g/cc 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1512.7	0.989														
1.0	1499.3	0.980														
2.0	1492.3	0.976														
3.0	1489.0	0.974														
4.0	1490.1	0.974														
5.0	1488.3	0.973														
6.0	1488.6	0.973														
7.0	1488.3	0.973														
8.0	1488.3	0.973														
9.0	1487.5	0.973														
10.0	1486.8	0.972														
11.0	1486.4	0.972														
12.0	1484.6	0.971														
13.0	1482.8	0.970														
14.0	1482.8	0.970														
15.0	1482.1	0.969														
16.0	1482.1	0.969														
17.0	1482.1	0.969														
18.0	1482.1	0.969														
19.0	1482.1	0.969														
20.0	1480.7	0.968														
21.0	1480.3	0.968														
22.0	1480.7	0.968														
23.0	1480.7	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														

Cruise: BAKTLT 1301-82 Sample: 21-3 Date: 10/18/81
 Position: 15-07N;69-24W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001														
0.0	1521.8	0.995														
1.0	1510.1	0.987														
2.0	1510.1	0.982														
3.0	1498.2	0.980														
4.0	1497.4	0.979														
5.0	1494.8	0.977														
6.0	1493.4	0.976														
7.0	1492.3	0.976														
8.0	1492.3	0.976														
9.0	1491.9	0.976														
10.0	1491.9	0.976														
11.0	1490.1	0.974														
12.0	1490.1	0.974														
13.0	1490.1	0.974														
14.0	1490.1	0.974														
15.0	1489.0	0.974														
16.0	1489.0	0.974														
17.0	1487.9	0.973														
18.0	1486.1	0.972														
19.0	1485.7	0.971														
20.0	1484.6	0.971														
21.0	1482.5	0.969														
22.0	1481.7	0.969														
23.0	1481.7	0.969														
24.0	1481.7	0.969														
25.0	1482.1	0.969														
26.0	1489.0	0.974														
27.0	1488.6	0.973														

0.397 0.071

Cruise: BARTLT 1301-82 Sample: 21-4 Date: 10/18/81
 Position: 15-07N;69-24W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1518.4	0.993														
1.0	1501.1	0.982														
2.0	1491.5	0.975														
3.0	1489.7	0.974														
4.0	1489.7	0.974														
5.0	1489.0	0.974														
6.0	1488.6	0.973														
7.0	1488.6	0.973														
8.0	1489.4	0.974														
9.0	1488.6	0.973														
10.0	1487.9	0.973														
11.0	1488.3	0.973														
12.0	1486.8	0.972														
13.0	1486.1	0.972														
14.0	1484.3	0.970														
15.0	1482.1	0.969														
16.0	1481.0	0.968														
17.0	1480.7	0.968														
18.0	1480.3	0.968														
19.0	1479.9	0.968														
20.0	1479.2	0.967														
21.0	1479.2	0.967														
22.0	1479.2	0.967														
23.0	1481.4	0.969														
24.0	1483.2	0.970														
25.0	1481.7	0.969														
26.0	1481.4	0.969														
27.0	1479.2	0.967														

Cruise: BARTLT 1301-82
 Position: 15-07N;69-24W
 Calculated for: 23.0 Deg-C 35.00 d/oo

Date: 10/18/81
 Depth: 3937m
 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.9	0.999														
0.0	1519.9	0.994														
1.0	1514.6	0.990														
2.0	1505.4	0.983														
3.0	1492.6	0.976														
4.0	1492.6	0.976														
5.0	1489.4	0.974														
6.0	1488.6	0.973														
7.0	1488.6	0.973														
8.0	1488.6	0.973														
9.0	1487.2	0.972														
10.0	1487.5	0.973														
11.0	1488.3	0.973														
12.0	1487.9	0.973														
13.0	1488.3	0.973														
14.0	1486.4	0.972														
15.0	1484.3	0.970														
16.0	1481.4	0.969														
17.0	1480.7	0.968														
18.0	1479.6	0.967														
19.0	1479.9	0.968														
20.0	1479.6	0.967														
21.0	1478.1	0.966														
22.0	1479.2	0.967														
23.0	1479.2	0.967														
24.0	1479.2	0.967														
25.0	1480.7	0.968														
26.0	1479.6	0.967														
27.0	1477.8	0.966														
28.0	1477.8	0.966														
29.0	1478.1	0.966														

Cruise: BAKTL4 1301-82 Date: 10/18/81
 Position: 15-07N; 69-24W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 21-9

Depth (cm)	VP m/sec	VP ratio	Attr. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1518.6	0.993						5.90								
1.0	1504.5	0.984														
2.0	1499.6	0.981														
3.0	1484.8	0.977														
4.0	1493.0	0.976														
5.0	1491.5	0.975														
6.0	1491.5	0.975						40.40								
7.0	1491.5	0.975														
8.0	1488.6	0.973						36.30								
9.0	1491.2	0.975														
10.0	1490.8	0.975														
11.0	1485.4	0.971														
12.0	1485.4	0.971						36.30								
13.0	1485.4	0.971														
14.0	1484.6	0.971														
15.0	1484.6	0.971														
16.0	1484.6	0.971						20.80								
17.0	1481.7	0.969														
18.0	1481.7	0.969														
19.0	1480.3	0.968														
20.0	1479.6	0.967						21.40								
21.0	1478.5	0.967														
22.0	1480.3	0.968														
23.0	1478.1	0.966														
24.0	1478.5	0.967														
25.0	1478.5	0.967						20.20								
26.0	1478.5	0.967														
27.0	1477.1	0.966														
28.0	1476.0	0.965														
29.0	1477.4	0.966						23.70								
30.0	1476.3	0.965														
31.0	1474.9	0.964														
32.0	1479.9	0.968						19.00								
33.0																

Cruise: BARTLT 1301-82 Date: 10/19/81
 Position: 15-07N;69-22W Depth: 3934m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 22-2*

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1572.4	1.028														
2.0	1551.2	1.014														
3.0	1541.8	1.008														
4.0	1537.9	1.006														
5.0	1535.9	1.004														
6.0	1528.6	0.999														
7.0	1518.3	0.993														
8.0	1512.7	0.989														
9.0	1511.5	0.988														
10.0	1508.5	0.986														
11.0	1506.7	0.985														
12.0	1506.7	0.985														
13.0	1503.7	0.983														
14.0	1503.7	0.983														
15.0	1502.2	0.982														
16.0	1502.2	0.982														
17.0	1502.2	0.982														
18.0	1502.2	0.982														
19.0	1500.0	0.981														
20.0	1498.5	0.980														
21.0	1498.5	0.980														
22.0	1498.5	0.980														
23.0	1495.2	0.978														
24.0	1496.3	0.978														
25.0	1495.9	0.978														
26.0	1494.5	0.977														
27.0	1494.8	0.977														
28.0	1495.2	0.978														
29.0	1493.0	0.976														
30.0	1493.4	0.976														
31.0	1490.8	0.975														
32.0	1494.1	0.977														
33.0	1491.9	0.976														
34.0	1498.5	0.980														

*Acoustic Data in Error

Cruise: BARTLT 1301-82
 Position: 15-07N;69-24W
 Calculated for: 23.0 Deg-C

Sample: 23-1
 Date: 10/19/81
 Depth: 3933m
 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1495.6	0.978	0.835					10.70								
2.0	1494.8	0.977	0.820													
3.0	1496.7	0.979	0.820													
4.0	1498.9	0.980	0.922													
5.0	1497.8	0.979	0.903					14.30								
6.0	1498.5	0.980	0.942					36.30								
7.0	1498.9	0.980	0.964													
8.0	1498.9	0.980	1.012													
9.0	1498.5	0.980	1.066													
10.0	1501.5	0.982	1.131					40.40								
11.0	1500.7	0.981	1.169					45.20								
12.0	1498.5	0.980	1.066													
13.0	1498.5	0.980	1.038													
14.0	1496.3	0.978	0.964													
15.0	1495.9	0.978	0.964													
16.0	1495.2	0.978	0.964													
17.0	1494.5	0.977	0.942					46.40								
18.0	1493.4	0.976	0.851					36.30								
19.0	1492.6	0.976	0.805													
20.0	1491.5	0.975	0.740													
21.0	1489.7	0.974	0.717													
22.0	1488.6	0.973	0.638													
23.0	1489.0	0.974	0.588					27.40								
24.0	1488.2	0.973	0.620					28.50								
25.0	1489.7	0.974	0.656													
26.0	1490.1	0.974	0.675													
27.0	1489.3	0.974	0.638													
28.0	1489.3	0.974	0.638													
29.0	1488.2	0.973	0.588													
30.0	1488.6	0.973	0.588													
31.0	1489.3	0.974	0.638													
32.0	1490.4	0.975	0.696					25.60								
33.0	1490.4	0.975	0.675					29.10								
34.0	1491.2	0.975	0.604													
35.0	1490.1	0.974	0.573													
36.0	1487.5	0.973	0.588													
37.0	1488.6	0.973	0.558													
38.0	1486.8	0.972	0.518													

Cruise: BARTLT 1301-82 Sample: 23-2 Date: 10/19/81
 Position: 15-07N;69-24W Depth: 3933m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.4	0.979	0.820													
2.0	1497.8	0.979	0.835													
3.0	1499.3	0.980	0.820													
4.0	1501.8	0.982	0.820													
5.0	1502.6	0.982	0.942													
6.0	1502.2	0.982	1.012													
7.0	1502.2	0.982	1.012													
8.0	1503.7	0.983	1.082													
9.0	1505.5	0.984	1.131													
10.0	1506.3	0.985	1.131													
11.0	1504.8	0.984	1.234													
12.0	1502.9	0.983	1.097													
13.0	1501.1	0.982	0.987													
14.0	1502.9	0.983	1.066													
15.0	1500.7	0.981	1.066													
16.0	1498.5	0.980	0.964													
17.0	1497.0	0.979	0.922													
18.0	1496.3	0.978	0.820													
19.0	1495.2	0.978	0.778													
20.0	1493.7	0.977	0.717													
21.0	1492.3	0.976	0.706													
22.0	1490.5	0.975	0.685													
23.0	1489.7	0.974	0.638													
24.0	1488.3	0.973	0.620													
25.0	1488.6	0.973	0.675													
26.0	1487.9	0.973	0.696													
27.0	1488.3	0.973	0.696													
28.0	1489.0	0.974	0.696													
29.0	1487.9	0.973	0.620													
30.0	1487.2	0.972	0.604													
31.0	1488.6	0.973	0.675													
32.0	1488.6	0.973	0.717													
33.0	1487.6	0.973	0.740													
34.0	1488.3	0.973	0.638													
35.0	1487.6	0.973	0.558													
36.0	1487.6	0.973	0.518													
37.0	1486.5	0.972	0.544													
38.0	1487.6	0.973	0.656													

Cruise: BARTLT 1301-82 Sample: 24-3 Date: 10/19/81
 Position: 15-06N; 69-24W Depth: 3936m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1516.0	0.991														
2.0	1518.7	0.993														
3.0	1516.8	0.992														
4.0	1509.6	0.987														
5.0	1507.4	0.986														
6.0	1502.9	0.983														
7.0	1497.4	0.979														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1492.6	0.976														
12.0	1492.6	0.976														
13.0	1492.6	0.976														
14.0	1495.2	0.978														
15.0	1493.7	0.977														
16.0	1493.4	0.976														
17.0	1493.4	0.976														
18.0	1492.3	0.976														
19.0	1491.9	0.976														
20.0	1490.8	0.975														
21.0	1489.0	0.974														
22.0	1488.3	0.973														
23.0	1487.2	0.972														
24.0	1487.2	0.972														
25.0	1486.5	0.972														
26.0	1489.0	0.974														
27.0	1489.0	0.974														
28.0	1489.7	0.974														
29.0	1492.6	0.976														
30.0	1487.9	0.973														
31.0	1486.5	0.972														

Date: 10/19/81
 Depth: 3936m
 0 m 400 kHz

Cruise: BARTLT 1301-82 Sample: 24-4
 Position: 15-06N;69-24W
 Calculated for: 23.0 Deg-C 35.00 o/oo

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.270	0.051									
2.0						0.261	0.053									
3.0																
4.0																
5.0																

Cruise: BARTLT 1301-82 Sample: 24-6 Date: 10/19/81
 Position: 15-06N;69-24W Depth: 3936m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1532.5	1.002														
2.0	1502.2	0.982														
3.0	1496.7	0.979														
4.0	1495.2	0.978														
5.0	1493.4	0.976														
6.0	1493.4	0.976														
7.0	1494.1	0.977														
8.0	1494.1	0.977														
9.0	1494.1	0.977														
10.0	1494.1	0.977														
11.0	1493.4	0.976														
12.0	1493.4	0.976														
13.0	1494.5	0.977														
14.0	1494.5	0.977														
15.0	1495.2	0.978														
16.0	1494.5	0.977														
17.0	1492.3	0.976														
18.0	1491.5	0.975														
19.0	1491.9	0.976														
20.0	1492.3	0.976														
21.0	1490.5	0.975														
22.0	1489.4	0.974														
23.0	1488.3	0.973														
24.0	1487.2	0.972														
25.0	1487.2	0.972														
26.0	1487.9	0.973														
27.0	1486.5	0.972														
28.0	1486.5	0.972														
29.0	1481.8	0.969														
30.0	1485.4	0.971														
31.0	1485.4	0.971														
32.0	1485.4	0.971														
33.0	1487.9	0.973														

Cruise: BARTLT 1301-82 Sample: 24-7 Date: 10/19/81
 Position: 15-06N;69-24W Depth: 3936m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1536.7	1.005													
0.0	1526.7	0.998													
1.0	1517.2	0.992													
2.0	1513.0	0.989													
3.0	1508.9	0.987													
4.0	1504.8	0.984													
5.0	1500.7	0.981													
6.0	1500.7	0.981													
7.0	1498.5	0.980													
8.0	1498.5	0.980													
9.0	1498.5	0.980													
10.0	1498.5	0.980													
11.0	1498.5	0.980													
12.0	1498.5	0.980													
13.0	1499.6	0.981													
14.0	1498.9	0.980													
15.0	1498.5	0.980													
16.0	1497.8	0.979													
17.0	1497.8	0.979													
18.0	1496.3	0.978													
19.0	1495.2	0.978													
20.0	1493.0	0.976													
21.0	1493.0	0.976													
22.0	1491.5	0.975													
23.0	1491.5	0.975													
24.0	1492.3	0.976													
25.0	1491.2	0.975													
26.0	1489.0	0.974													
27.0	1491.2	0.975													
28.0	1489.7	0.974													
29.0	1490.8	0.975													
30.0	1487.5	0.973													
31.0	1485.4	0.971													
32.0	1488.6	0.973													
33.0	1488.6	0.973													

Cruise: BARTLT 1301-82 Sample: 24-8-1 Date: 10/19/81
 Position: 15-06N;69-24W Depth: 3936m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1520.0	0.994														
2.0	1502.8	0.983														
3.0	1502.0	0.982														
4.0	1498.3	0.980														
5.0	1500.2	0.981														
6.0	1505.4	0.984														
7.0	1498.7	0.980														
8.0	1498.7	0.980														
9.0	1498.7	0.980														
10.0	1498.7	0.980														
11.0	1498.7	0.980														
12.0	1499.4	0.980														
13.0	1498.7	0.980														
14.0	1498.7	0.980														
15.0	1497.6	0.979														
16.0	1497.6	0.979														
17.0	1497.2	0.979														
18.0	1496.1	0.978														
19.0	1494.7	0.977														
20.0	1493.9	0.977														
21.0	1493.9	0.977														
22.0	1492.8	0.976														
23.0	1493.2	0.976														
24.0	1493.6	0.977														
25.0	1493.6	0.977														
26.0	1493.6	0.977														
27.0	1493.2	0.976														
28.0	1492.1	0.976														
29.0	1492.1	0.976														
30.0	1493.2	0.976														
31.0	1486.3	0.972														
32.0	1489.5	0.974														
33.0	1489.5	0.974														
34.0	1489.5	0.974														
35.0	1489.5	0.974														

Cruise: BARTLT 1301-82
 Position: 15-06N;69-24W
 Calculated for: 23.0 Deg-C 35.00 o/oo

Date: 10/19/81
 Depth: 3936m
 0 m 400 kHz

Sample: 24-8-2

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1523.6	0.996														
2.0	1501.1	0.982														
3.0	1497.4	0.979														
4.0	1501.5	0.982														
5.0	1495.2	0.978														
6.0	1494.5	0.977														
7.0	1494.8	0.977														
8.0	1494.8	0.977														
9.0	1494.8	0.977														
10.0	1494.8	0.977														
11.0	1494.8	0.977														
12.0	1494.8	0.977														
13.0	1495.2	0.978														
14.0	1493.7	0.977														
15.0	1493.7	0.977														
16.0	1492.6	0.976														
17.0	1492.6	0.976														
18.0	1491.2	0.975														
19.0	1489.7	0.974														
20.0	1489.0	0.974														
21.0	1487.6	0.973														
22.0	1486.5	0.972														
23.0	1486.5	0.972														
24.0	1486.5	0.972														
25.0	1486.5	0.972														
26.0	1486.5	0.972														
27.0	1485.0	0.971														
28.0	1485.0	0.971														
29.0	1485.0	0.971														
30.0	1484.3	0.971														
31.0	1484.3	0.971														
32.0	1478.2	0.967														
33.0	1483.6	0.970														
34.0	1484.3	0.971														
35.0	1485.4	0.971														

Cruise: BARTLT 1301-82 Sample: 24-8-3 Date: 10/19/81
 Position: 15-06N;69-24W Depth: 3936m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.0	0.979														
2.0	1498.9	0.980														
3.0	1499.6	0.981														
4.0	1500.0	0.981														
5.0	1500.0	0.981														
6.0	1499.6	0.981														
7.0	1499.6	0.981														
8.0	1500.7	0.981														
9.0	1498.1	0.980														
10.0	1498.5	0.980														
11.0	1497.4	0.979														
12.0	1498.1	0.980														
13.0	1497.8	0.979														
14.0	1497.8	0.979														
15.0	1497.4	0.979														
16.0	1493.7	0.977														
17.0	1493.0	0.976														
18.0	1491.9	0.976														
19.0	1489.7	0.974														
20.0	1487.9	0.973														
21.0	1486.8	0.972														
22.0	1485.7	0.971														
23.0	1486.8	0.972														
24.0	1486.5	0.972														
25.0	1487.2	0.972														
26.0	1486.8	0.972														
27.0	1486.1	0.972														
28.0	1486.1	0.972														
29.0	1485.4	0.971														
30.0	1486.1	0.972														
31.0	1487.2	0.972														
32.0	1486.5	0.972														
33.0	1485.7	0.971														
34.0	1485.7	0.971														
35.0	1486.5	0.972														

Cruise: BARTLT 1301-82
 Position: 15-06N;69-24W
 Calculated for: 23.0 Deg-C 35.00 c/oo

Date: 10/19/81
 Depth: 3936m
 0 m 400 kHz

Sample: 24-8-4
 Deg-C 35.00 c/oo

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1500.0	0.981														
2.0	1498.9	0.980														
3.0	1500.7	0.981														
4.0	1500.7	0.981														
5.0	1501.1	0.982														
6.0	1499.3	0.980														
7.0	1500.0	0.981														
8.0	1501.1	0.982														
9.0	1501.8	0.982														
10.0	1502.6	0.982														
11.0	1502.2	0.982														
12.0	1501.8	0.982														
13.0	1503.3	0.983														
14.0	1501.1	0.982														
15.0	1498.1	0.980														
16.0	1497.0	0.979														
17.0	1495.2	0.978														
18.0	1496.3	0.978														
19.0	1494.8	0.977														
20.0	1491.9	0.976														
21.0	1490.5	0.975														
22.0	1489.7	0.974														
23.0	1490.8	0.975														
24.0	1490.5	0.975														
25.0	1490.8	0.975														
26.0	1490.8	0.975														
27.0	1489.7	0.974														
28.0	1488.6	0.973														
29.0	1489.0	0.974														
30.0	1489.7	0.974														
31.0	1490.1	0.974														
32.0	1488.6	0.973														
33.0	1489.7	0.974														
34.0	1487.6	0.973														
35.0	1490.5	0.975														

Cruise: BAKLT 1301-82 Date: 10/19/81
 Position: 15-06N;69-24W Depth: 3936m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1508.7	0.986														
2.0	1497.2	0.979														
3.0	1496.9	0.979														
4.0	1496.9	0.979														
5.0	1495.8	0.978														
6.0	1496.1	0.978														
7.0	1495.8	0.978														
8.0	1496.5	0.978														
9.0	1496.9	0.979														
10.0	1497.6	0.979														
11.0	1497.2	0.979														
12.0	1497.2	0.979														
13.0	1497.6	0.979														
14.0	1496.9	0.979														
15.0	1495.4	0.978														
16.0	1493.9	0.977														
17.0	1492.5	0.976														
18.0	1492.1	0.976														
19.0	1490.6	0.975														
20.0	1488.8	0.973														
21.0	1488.5	0.973														
22.0	1488.5	0.973														
23.0	1488.1	0.973														
24.0	1487.7	0.973														
25.0	1487.7	0.973														
26.0	1487.7	0.973														
27.0	1487.7	0.973														
28.0	1487.0	0.972														
29.0	1486.3	0.972														
30.0	1486.6	0.972														
31.0	1487.0	0.972														
32.0	1487.0	0.972														
33.0	1487.0	0.972														
34.0	1487.4	0.973														
35.0	1487.4	0.973														
36.0	1487.7	0.973														

Cruise: BAKLT 1301-82
 Position: 15-06N;69-22W
 Calculated for: 23.0 Deg-C

Sample: 26-1
 35.00 o/oo

Date: 10/21/81
 Depth: 3940m
 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1520.3	0.994														
1.0	1505.0	0.984														
2.0	1500.5	0.981														
3.0	1498.7	0.980														
4.0	1498.7	0.980														
5.0	1499.4	0.980														
6.0	1499.4	0.980														
7.0	1499.8	0.981														
8.0	1502.4	0.982														
9.0	1502.0	0.982														
10.0	1501.3	0.982														
11.0	1502.8	0.983														
12.0	1503.9	0.983														
13.0	1503.9	0.983														
14.0	1502.8	0.983														
15.0	1502.8	0.983														
16.0	1502.8	0.983														
17.0	1502.4	0.982														
18.0	1500.5	0.981														
19.0	1498.7	0.980														
20.0	1494.3	0.977														
21.0	1493.6	0.977														
22.0	1492.5	0.976														
23.0	1491.0	0.975														
24.0	1489.6	0.974														
25.0	1490.3	0.974														
26.0	1488.8	0.973														
27.0	1489.9	0.974														
28.0	1489.6	0.974														
29.0	1488.8	0.973														
30.0	1488.8	0.973														

Cruise: BARTLT 1301-82 Sample: 26-2 Date: 10/21/81
 Position: 15-06N; 69-22W Depth: 3940m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.9	1.000														
0.0	1527.9	0.999		83.0	63.73				51.21	10.92	37.86	5.17	4.35	0.47	0.58	0.37
1.0	1508.3	0.986							43.18	10.63	46.12	6.19	4.26	-0.09	0.56	0.36
2.0	1503.9	0.983		77.3	63.98				46.90	12.31	40.79	5.82	4.31	0.16	0.58	0.37
3.0	1500.9	0.981		76.4	66.53				43.04	13.77	43.19	6.14	4.24	0.00	0.58	0.37
4.0	1500.2	0.981		75.3	64.37				45.47	13.41	41.12	5.91	4.24	0.10	0.57	0.36
5.0	1500.2	0.981		75.0	67.42				45.92	14.05	40.02	5.83	4.18	0.14	0.57	0.36
6.0	1500.2	0.981		73.7	67.13				45.48	14.39	40.13	5.84	4.25	0.14	0.58	0.37
7.0	1501.6	0.982		72.7	65.60				41.87	15.98	42.15	6.08	4.22	0.07	0.58	0.37
8.0	1501.6	0.982		71.5	66.50				38.02	16.57	45.41	6.36	4.18	-0.10	0.58	0.37
9.0	1500.9	0.981		71.8	67.89				33.27	18.48	48.25	6.71	4.13	-0.20	0.60	0.38
10.0	1502.4	0.982		72.3	67.12				29.55	20.58	49.87	6.92	4.06	-0.26	0.64	0.39
11.0	1504.6	0.984		72.7	67.24				26.12	21.85	52.04	7.15	4.01	-0.31	0.70	0.41
12.0	1505.7	0.985		73.2	68.47				28.68	23.36	47.96	6.89	3.98	-0.17	0.67	0.40
13.0	1505.3	0.984		74.5	70.75				32.12	22.50	45.38	6.64	3.97	-0.09	0.63	0.39
14.0	1506.5	0.985		74.4	72.57				31.08	23.14	45.78	6.68	3.96	-0.12	0.65	0.39
15.0	1506.1	0.985		74.9	74.59				23.67	22.40	53.93	7.40	3.77	-0.35	0.75	0.43
16.0	1505.7	0.985		75.4	73.59				28.28	22.25	49.39	7.04	3.90	-0.23	0.68	0.40
17.0	1503.1	0.983		75.0	72.66				23.34	23.49	53.17	7.38	3.82	-0.29	0.77	0.43
18.0	1501.6	0.982		73.7	67.51				22.21	24.24	53.55	7.46	3.82	-0.29	0.81	0.45
19.0	1499.8	0.981		72.6	67.40											
20.0	1498.3	0.980														
21.0	1496.1	0.978														
22.0	1495.8	0.978														
23.0	1493.2	0.976														
24.0	1492.1	0.976														
25.0	1490.3	0.974														
26.0	1490.6	0.975														
27.0	1491.0	0.975														
28.0	1491.7	0.975														
29.0	1491.0	0.975														
30.0	1490.3	0.974														
31.0	1489.2	0.974														
32.0	1489.6	0.974														
33.0	1489.2	0.974														
34.0																
35.0																
36.0																
37.0																

Cruise: BARTLT 1301-82 Sample: 26-3 Date: 10/21/81
 Position: 15-06N;69-22W Depth: 3940m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.9	1.000														
0.0	1512.1	0.989														
1.0	1500.2	0.981														
2.0	1499.8	0.981														
3.0	1500.2	0.981														
4.0	1501.3	0.982														
5.0	1503.9	0.983														
6.0	1502.0	0.982														
7.0	1501.6	0.982														
8.0	1501.6	0.982														
9.0	1502.4	0.982														
10.0	1505.0	0.984														
11.0	1505.3	0.984														
12.0	1505.3	0.984														
13.0	1505.3	0.984														
14.0	1505.7	0.985														
15.0	1505.7	0.985														
16.0	1505.0	0.984														
17.0	1502.8	0.983														
18.0	1501.3	0.982														
19.0	1496.9	0.979														
20.0	1497.6	0.979														
21.0	1493.9	0.977														
22.0	1490.6	0.975														
23.0	1490.3	0.974														
24.0	1490.3	0.974														
25.0	1490.3	0.974														
26.0	1491.0	0.975														
27.0	1491.0	0.975														
28.0	1489.6	0.974														
29.0	1489.9	0.974														
30.0	1487.4	0.973														
31.0	1482.3	0.969														
32.0	1489.2	0.974														
33.0	1488.1	0.973														

53.27 10.49 36.22 5.15 4.15 0.41 0.56 0.36

Cruise: BARTLT 1301-82 Sample: 26-4 Date: 10/21/81
 Position: 15-06N;69-22W Depth: 3940m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 KHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	0.000													
0.0	1503.7	0.983	0.679													
1.0	1501.8	0.982	0.790													
2.0	1498.9	0.980	0.772													
3.0	1498.9	0.980	0.738													
4.0	1500.0	0.981	0.738													
5.0	1500.7	0.981	0.899													
6.0	1502.2	0.982	0.954													
7.0	1501.5	0.982	0.954													
8.0	1501.5	0.982	0.954													
9.0	1502.9	0.983	1.019													
10.0	1503.7	0.983	1.019													
11.0	1503.3	0.983	1.056													
12.0	1503.3	0.983	1.019													
13.0	1502.6	0.982	0.954													
14.0	1501.8	0.982	0.939													
15.0	1500.7	0.981	0.925													
16.0	1499.3	0.980	0.887													
17.0	1497.4	0.979	0.810													
18.0	1496.7	0.979	0.707													
19.0	1494.1	0.977	0.693													
20.0	1491.9	0.976	0.640													
21.0	1490.1	0.974	0.628													
22.0	1490.1	0.974	0.605													
23.0	1489.7	0.974	0.628													
24.0	1489.7	0.974	0.652													
25.0	1489.7	0.974	0.665													
26.0	1490.1	0.974	0.679													
27.0	1489.0	0.974	0.616													
28.0	1489.0	0.974	0.563													
29.0	1487.2	0.972	0.563													
30.0	1489.0	0.974	0.628													
31.0	1489.0	0.974	0.679													
32.0	1489.7	0.974	0.679													
33.0	1490.5	0.975	0.616													

Cruise: BARTLT 1301-82 Sample: 28-1 Date: 10/22/81
 Position: 15-07N;69-20W Depth: 3949m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.7	1.002	-0.014													
0.0	1513.7	0.990	0.618													
1.0	1501.5	0.982	0.732					6.50								
2.0	1500.4	0.981	0.779													
3.0	1500.7	0.981	0.834													
4.0	1501.1	0.981	0.779					21.40								
5.0	1500.0	0.981	0.806													
6.0	1501.5	0.982	0.865					34.50								
7.0	1500.0	0.981	0.957													
8.0	1501.8	0.982	1.002													
9.0	1502.6	0.982	1.052													
10.0	1501.5	0.982	1.052					43.40								
11.0	1501.5	0.982	1.052													
12.0	1501.5	0.982	1.026					44.00								
13.0	1502.6	0.982	1.081													
14.0	1500.7	0.981	1.052													
15.0	1500.7	0.981	0.979													
16.0	1498.9	0.980	0.957													
17.0	1497.4	0.979	0.937					41.60								
18.0	1494.8	0.977	0.865					30.60								
19.0	1494.8	0.977	0.834													
20.0	1493.0	0.976	0.710													
21.0	1492.3	0.976	0.603													
22.0	1491.6	0.975	0.618					30.00								
23.0	1491.2	0.975	0.603													
24.0	1491.2	0.975	0.603					31.50								
25.0	1491.2	0.975	0.635													
26.0	1491.2	0.975	0.652													

Cruise: BARTLY 1301-82 Sample: 28-2* Date: 10/22/81
 Position: 15-07N; 69-20W Depth: 3949m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1569.3	1.026	-0.012													
0.0	1549.4	1.013	0.638													
1.0	1536.6	1.005	0.775													
2.0	1535.8	1.004	0.844													
3.0	1535.8	1.004	0.871													
4.0	1535.8	1.004	0.899													
5.0	1535.8	1.004	0.964													
6.0	1536.2	1.004	0.947													
7.0	1536.6	1.005	0.947													
8.0	1536.9	1.005	0.964													
9.0	1536.6	1.005	0.982													
10.0	1535.0	1.004	1.002													
11.0	1535.8	1.004	1.002													
12.0	1537.3	1.005	0.947													
13.0	1536.6	1.005	0.930													
14.0	1536.2	1.004	0.844													
15.0	1536.2	1.004	0.871													
16.0	1533.9	1.003	0.844													
17.0	1533.5	1.003	0.786													
18.0	1532.7	1.002	0.726													
19.0	1531.2	1.001	0.652													
20.0	1527.3	0.999	0.638													
21.0	1524.3	0.997	0.585													
22.0	1525.4	0.997	0.585													
23.0	1525.4	0.997	0.597													
24.0	1525.4	0.997	0.652													

*Acoustic Data in Error

Cruise: BARTL1 1301-82 Sample: 29-1 Date: 10/23/81
 Position: 15-03N;69-21W Depth: 3959m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	0.000													
0.0	1515.2	0.991	0.558													
1.0	1498.9	0.980	0.696					8.40								
2.0	1496.3	0.978	0.791													
3.0	1495.6	0.978	0.867													
4.0	1496.7	0.979	0.885													
5.0	1496.3	0.978	0.835					22.00								
6.0	1496.3	0.978	0.885													
7.0	1495.2	0.978	0.922					36.30								
8.0	1496.3	0.978	0.942													
9.0	1496.3	0.978	0.942													
10.0	1496.3	0.978	0.964													
11.0	1496.7	0.979	1.012					47.60								
12.0	1499.6	0.981	0.964					51.70								
13.0	1497.8	0.979	0.964													
14.0	1497.8	0.979	0.922													
15.0	1496.7	0.979	0.885													
16.0	1495.9	0.978	0.964													
17.0	1493.7	0.977	0.922					47.00								
18.0	1495.2	0.978	0.791					41.60								
19.0	1491.2	0.975	0.696													
20.0	1491.9	0.976	0.638													
21.0	1490.8	0.975	0.638													
22.0	1489.4	0.974	0.620													
23.0	1488.6	0.973	0.573					34.50								
24.0	1488.3	0.973	0.573													
25.0	1489.0	0.974	0.638					28.40								
26.0	1489.4	0.974	0.620													
27.0	1489.4	0.974	0.638													
28.0	1489.7	0.974	0.675													
29.0	1490.5	0.975	0.717					34.50								
30.0								24.90								
31.0																

Cruise: BARTLT 1301-82 Sample: 29-2 Date: 10/23/81
 Position: 15-03N;69-21W Depth: 3959m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.4	1.002	0.820													
0.0	1517.5	0.992	0.573													
1.0	1500.0	0.981	0.765													
2.0	1498.5	0.980	0.820													
3.0	1497.0	0.979	0.835													
4.0	1497.4	0.979	0.835													
5.0	1498.1	0.980	0.885													
6.0	1498.5	0.980	0.942													
7.0	1497.4	0.979	0.942													
8.0	1498.1	0.980	0.987													
9.0	1498.1	0.980	1.038													
10.0	1498.9	0.980	1.066													
11.0	1499.6	0.981	1.066													
12.0	1498.5	0.980	0.987													
13.0	1500.4	0.981	0.922													
14.0	1498.9	0.980	0.922													
15.0	1498.5	0.980	0.964													
16.0	1496.7	0.979	0.922													
17.0	1498.7	0.979	0.867													
18.0	1495.9	0.978	0.820													
19.0	1494.8	0.977	0.765													
20.0	1494.1	0.977	0.729													
21.0	1493.0	0.976	0.656													
22.0	1490.5	0.975	0.638													
23.0	1489.4	0.974	0.604													
24.0	1489.4	0.974	0.588													
25.0	1489.4	0.974	0.638													
26.0	1490.5	0.975	0.717													
27.0	1491.6	0.975	0.717													
28.0	1491.2	0.975	0.696													
29.0	1491.6	0.975	0.638													
30.0	1492.3	0.976	0.717													
31.0	1491.6	0.975	0.675													

Cruise: BARTLT 1301-82 Sample: 29-3 Date: 10/23/81
 Position: 15-03N69-21W Depth: 3959m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.000													
0.0	1528.5	0.999	0.218					7.70								
1.0	1507.8	0.986	0.820													
2.0	1495.6	0.978	0.729													
3.0	1497.0	0.979	0.778													
4.0	1497.0	0.979	0.885					22.00								
5.0	1498.1	0.980	0.903					35.10								
6.0	1498.9	0.980	0.903													
7.0	1498.5	0.980	0.885													
8.0	1498.9	0.980	0.964													
9.0	1498.9	0.980	1.012													
10.0	1498.5	0.980	1.012					41.60								
11.0	1499.6	0.981	1.066													
12.0	1500.4	0.981	1.066					48.70								
13.0	1500.0	0.981	0.964													
14.0	1500.4	0.981	0.922													
15.0	1500.4	0.981	0.964													
16.0	1500.0	0.981	0.964					35.70								
17.0	1497.8	0.979	0.867					44.00								
18.0	1496.3	0.978	0.778													
19.0	1495.2	0.978	0.740													
20.0	1493.7	0.977	0.685													
21.0	1493.0	0.976	0.696													
22.0	1491.6	0.975	0.685					39.80								
23.0	1490.5	0.975	0.604					43.40								
24.0	1489.4	0.974	0.588													
25.0	1489.0	0.974	0.638													
26.0	1490.1	0.974	0.717													
27.0	1491.2	0.975	0.717													
28.0	1489.7	0.974	0.656					36.90								
29.0	1489.4	0.974	0.604					33.90								
30.0	1490.5	0.975	0.638													
31.0	1490.5	0.975	0.656													
32.0	1490.1	0.974	0.696													
33.0	1491.2	0.975	0.717													
34.0	1490.8	0.975	0.717													

Cruise: BARTLE 1301-82
 Position: 15-03N;69-21W
 Calculated for: 23.0 Deg-C 35.00 o/oo

Date: 10/23/81
 Depth: 3959m
 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.332	0.054									
2.0						0.315	0.044									
3.0																
4.0						0.332	0.047									
5.0																
6.0						0.280	0.041									
7.0																
8.0						0.247	0.036									
9.0																
10.0						0.222	0.034									
11.0																
12.0						0.224	0.044									
13.0																
14.0						0.209	0.042									
15.0						0.192	0.043									
16.0																
17.0						0.178	0.044									
18.0																
19.0						0.174	0.043									
20.0																
21.0						0.147	0.036									
22.0																
23.0						0.150	0.036									
24.0																
25.0						0.124	0.034									
26.0																
27.0						0.119	0.036									
28.0																
29.0																
30.0						0.150	0.038									
31.0																

Cruise: BARTLT 1301-82 Sample: 29-16 Date: 10/23/81
 Position: 15-03N;69-21W Depth: 3959m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	0.000													
0.0	1528.6	0.999	0.102													
1.0	1502.6	0.962	0.638													
2.0	1496.1	0.980	0.717													
3.0	1496.7	0.979	0.740													
4.0	1498.1	0.980	0.740													
5.0	1503.3	0.983	0.675													
6.0	1498.1	0.980	0.717													
7.0	1495.9	0.978	0.805													
8.0	1495.9	0.978	0.885													
9.0	1495.9	0.978	0.964													
10.0	1497.0	0.979	1.066													
11.0	1496.7	0.979	1.038													
12.0	1496.7	0.979	1.066													
13.0	1497.4	0.979	1.038													
14.0	1497.4	0.979	0.987													
15.0	1497.4	0.979	0.964													
16.0	1497.4	0.979	0.903													
17.0	1497.0	0.979	0.885													
18.0	1495.6	0.978	0.851													
19.0	1495.2	0.978	0.820													
20.0	1493.7	0.977	0.752													
21.0	1492.6	0.976	0.717													
22.0	1490.8	0.975	0.729													
23.0	1490.8	0.975	0.729													
24.0	1489.7	0.974	0.638													
25.0	1489.0	0.974	0.675													
26.0	1489.0	0.974	0.656													
27.0	1489.0	0.974	0.696													
28.0	1487.9	0.973	0.675													
29.0	1486.5	0.972	0.656													
30.0	1486.8	0.972	0.620													
31.0	1486.8	0.972	0.740													

Cruise: BARTLT 1301-82 Sample: 30-1 Date: 10/23/81
 Position: 15-09N; 69-34W Depth: 3945m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VF Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.4	0.979	0.851					7.70								
2.0	1496.3	0.978	0.885													
3.0	1495.9	0.978	0.885													
4.0	1498.5	0.980	0.820													
5.0	1496.7	0.979	0.885					27.90								
6.0	1496.3	0.978	0.765													
7.0	1496.7	0.979	0.967													
8.0	1495.9	0.978	0.964					42.80								
9.0	1495.9	0.978	1.012													
10.0	1496.7	0.979	1.066													
11.0	1496.7	0.979	1.097													
12.0	1497.8	0.979	1.066					52.90								
13.0	1497.8	0.979	1.038													
14.0	1498.9	0.980	0.964													
15.0	1498.1	0.980	0.922													
16.0	1497.4	0.979	0.942													
17.0	1496.7	0.979	0.922					45.20								
18.0	1495.6	0.978	0.851													
19.0	1493.7	0.977	0.791													
20.0	1491.2	0.975	0.717													
21.0	1490.1	0.974	0.604													
22.0	1488.6	0.973	0.588													
23.0	1488.6	0.973	0.573													
24.0																
25.0								27.90								

Cruise: BARTLT 1301-82 Sample: 30-2 Date: 10/23/81
 Position: 15-09N;69-34W Depth: 3945m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1507.8	0.986	0.964													
2.0	1499.3	0.980	0.964													
3.0	1499.3	0.980	0.942													
4.0	1500.0	0.981	0.964													
5.0	1497.8	0.979	0.964													
6.0	1496.7	0.979	1.012													
7.0	1495.9	0.978	1.066													
8.0	1495.9	0.978	1.012													
9.0	1495.9	0.978	1.038													
10.0	1495.9	0.978	1.066													
11.0	1497.4	0.979	1.038													
12.0	1497.4	0.979	0.964													
13.0	1497.0	0.979	0.903													
14.0	1496.7	0.979	0.942													
15.0	1497.4	0.979	0.885													
16.0	1495.6	0.978	0.885													
17.0	1494.1	0.977	0.820													
18.0	1493.4	0.976	0.805													
19.0	1493.4	0.976	0.740													
20.0	1492.6	0.976	0.706													
21.0	1490.8	0.975	0.656													
22.0	1488.6	0.973	0.588													
23.0	1487.6	0.973	0.558													
24.0	1487.6	0.973	0.620													
25.0	1487.6	0.973	0.675													
26.0	1489.4	0.974	0.696													
27.0	1489.4	0.974	0.696													
28.0	1488.3	0.973	0.604													
29.0	1487.2	0.972	0.588													
30.0	1487.2	0.972	0.638													
31.0	1488.3	0.973	0.696													
32.0	1488.6	0.973	0.675													

Date: 10/23/81
Depth: 3945m
0 m 400 kHz

Sample: 30-3
35.00 o/oo

Cruise: BARTLT 1301-82
Position: 15-09N;69-34W
Calculated for: 23.0 Deg-C

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1500.0	0.981	0.765													
2.0	1498.2	0.980	0.820													
3.0	1497.1	0.979	0.885					29.70								
4.0	1497.8	0.979	0.885													
5.0	1498.9	0.980	0.964													
6.0	1498.5	0.980	0.964					23.80								
7.0	1498.5	0.980	0.964													
8.0	1498.5	0.980	0.964													
9.0	1498.5	0.980	1.038													
10.0	1498.9	0.980	1.066													
11.0	1500.7	0.981	1.097					46.40								
12.0	1500.7	0.981	1.038													
13.0	1500.4	0.981	1.012													
14.0	1499.3	0.980	1.038													
15.0	1498.5	0.980	0.987					51.10								
16.0	1498.2	0.980	0.964													
17.0	1499.3	0.980	0.942													
18.0	1497.1	0.979	0.885													
19.0	1498.9	0.978	0.820					43.40								
20.0	1494.8	0.977	0.765													
21.0	1493.7	0.977	0.696													
22.0	1491.2	0.975	0.675													
23.0	1491.2	0.975	0.638					27.90								
24.0	1490.1	0.974	0.604													
25.0	1489.4	0.974	0.638													
26.0	1489.4	0.974	0.675													
27.0	1489.4	0.974	0.638					26.20								

Cruise: BARTLT 1301-82 Sample: 30-4 Date: 10/23/81
 Position: 15-09N:69-34W Depth: 3945m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% sand	% silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1504.4	0.984	0.851													
2.0	1504.1	0.983	1.038													
3.0	1500.0	0.981	0.987													
4.0	1497.0	0.979	0.922													
5.0	1497.4	0.979	0.885													
6.0	1495.6	0.978	0.964													
7.0	1494.5	0.977	1.012													
8.0	1494.5	0.977	1.012													
9.0	1494.5	0.977	1.012													
10.0	1494.8	0.977	0.964													
11.0	1495.2	0.978	1.012													
12.0	1495.6	0.978	0.964													
13.0	1496.7	0.979	0.885													
14.0	1497.0	0.979	0.964													
15.0	1495.2	0.978	0.922													
16.0	1493.7	0.977	0.885													
17.0	1493.4	0.976	0.903													
18.0	1493.4	0.976	0.885													
19.0	1491.6	0.975	0.867													
20.0	1490.5	0.975	0.740													
21.0	1488.6	0.973	0.717													
22.0	1488.6	0.973	0.638													
23.0	1486.8	0.972	0.573													
24.0	1487.2	0.972	0.558													
25.0	1486.1	0.972	0.573													
26.0	1486.1	0.972	0.588													
27.0	1486.8	0.972	0.620													
28.0	1487.6	0.973	0.675													
29.0	1487.2	0.972	0.638													
30.0	1486.8	0.972	0.588													
31.0	1486.5	0.972	0.573													
32.0	1486.5	0.972	0.604													

Cruise: BARTLT 1301-82 Sample: 30-5 Date: 10/23/81
 Position: 15-09N;69-34W Depth: 3945m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.3	1.000	-0.015													
0.0	1522.5	0.995	0.177													
1.0	1513.0	0.989	0.376													
2.0	1499.6	0.981	0.660													
3.0	1497.0	0.979	0.725													
4.0	1496.7	0.979	0.776													
5.0	1495.6	0.978	0.790													
6.0	1495.6	0.978	0.835													
7.0	1497.4	0.979	0.852													
8.0	1497.4	0.979	0.927													
9.0	1495.6	0.978	0.972													
10.0	1496.3	0.978	0.996													
11.0	1497.0	0.979	0.949													
12.0	1497.0	0.979	1.023													
13.0	1498.1	0.980	1.023													
14.0	1498.5	0.980	0.972													
15.0	1498.1	0.980	0.949													
16.0	1498.1	0.980	0.907													
17.0	1498.1	0.980	0.888													
18.0	1497.8	0.979	0.949													
19.0	1498.1	0.980	0.869													
20.0	1495.6	0.978	0.835													
21.0	1493.0	0.976	0.750													
22.0	1491.6	0.975	0.681													
23.0	1490.1	0.974	0.641													
24.0	1489.0	0.974	0.605													
25.0	1487.9	0.973	0.605													
26.0	1489.7	0.974	0.573													
27.0	1489.4	0.974	0.573													
28.0	1490.1	0.974	0.660													
29.0	1490.5	0.975	0.660													

Cruise: BARTLT 1301-82 Date: 10/23/81
 Position: 15-09N;69-34W Depth: 3945m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 30-6

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.0	1.000	0.000													
0.0	1526.2	0.998	0.192													
1.0	1507.4	0.986	0.636					8.30								
2.0	1495.9	0.978	0.765													
3.0	1495.6	0.978	0.835													
4.0	1495.6	0.978	0.903					15.50								
5.0	1494.8	0.977	0.903													
6.0	1494.8	0.977	0.987					29.10								
7.0	1495.2	0.978	0.987													
8.0	1495.2	0.978	0.987													
9.0	1495.2	0.978	0.922													
10.0	1495.2	0.978	1.066													
11.0	1495.2	0.978	1.038					44.60								
12.0	1496.3	0.978	1.038					52.30								
13.0	1497.8	0.979	0.987													
14.0	1498.5	0.980	1.038													
15.0	1497.8	0.979	1.012													
16.0	1497.0	0.979	1.012					53.50								
17.0	1497.0	0.979	0.922													
18.0	1496.7	0.979	0.903					38.70								
19.0	1495.6	0.978	0.885													
20.0	1493.7	0.977	0.805													
21.0	1491.9	0.976	0.696													
22.0	1490.5	0.975	0.638													
23.0	1489.4	0.974	0.604					29.10								
24.0	1488.6	0.973	0.604					31.50								
25.0	1488.3	0.973	0.638													
26.0	1488.6	0.973	0.675													
27.0	1488.6	0.973	0.675													
28.0								36.90								
29.0																

Cruise: BARTLT 1301-82 Date: 10/23/81
 Position: 15-04N;69-19W Depth: 3949m
 Calculated for: 23.0 Deg-C 35.00 α /oo 0 m 400 kHz

Sample: 31-1

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.0	1.002	0.000													
0.0	1528.9	1.000	0.218													
1.0	1501.8	0.982	0.765					10.70								
2.0	1500.7	0.981	0.851													
3.0	1499.6	0.981	0.885													
4.0	1499.6	0.981	0.885													
5.0	1499.6	0.981	0.922					29.10								
6.0	1500.7	0.981	0.964													
7.0	1500.7	0.981	1.066					42.60								
8.0	1502.6	0.982	1.097													
9.0	1503.3	0.983	1.066													
10.0	1502.6	0.982	1.038													
11.0	1502.2	0.982	0.987					42.20								
12.0	1500.7	0.981	0.942													
13.0	1500.7	0.981	0.922					39.20								
14.0	1500.0	0.981	0.922													
15.0	1498.9	0.980	0.851													
16.0	1496.7	0.979	0.765													
17.0	1495.6	0.978	0.717					34.50								
18.0	1493.4	0.976	0.666													
19.0	1491.9	0.976	0.604					30.90								
20.0	1490.8	0.975	0.588													
21.0	1490.8	0.975	0.573													
22.0	1490.8	0.975	0.638													
23.0	1491.2	0.975	0.656					27.30								
24.0	1491.2	0.975	0.675													
25.0	1491.2	0.975	0.675					29.70								

Cruise: BARTLL 1301-82 Sample: 31-2 Date: 10/23/81
 Position: 15-04N;69-19W Depth: 3949m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	0.000													
0.0	1525.1	0.997	0.370													
1.0	1499.3	0.980	0.765	79.2												
2.0	1496.3	0.978	0.765													
3.0	1495.2	0.978	0.604	76.9												
4.0	1495.2	0.978	0.820													
5.0	1495.6	0.978	0.752	76.7												
6.0	1496.7	0.979	0.820													
7.0	1498.9	0.980	0.835	74.7												
8.0	1498.5	0.980	0.942													
9.0	1497.8	0.979	0.964	73.9												
10.0	1498.9	0.980	1.038													
11.0	1498.9	0.980	1.038													
12.0	1498.5	0.980	0.964													
13.0	1499.3	0.980	0.987													
14.0	1499.3	0.980	0.964													
15.0	1497.4	0.979	0.942													
16.0	1495.6	0.978	0.851													
17.0	1495.2	0.978	0.867													
18.0	1492.3	0.976	0.791													
19.0	1493.4	0.976	0.740													
20.0	1491.9	0.976	0.740													
21.0	1490.8	0.975	0.696													
22.0	1489.4	0.974	0.638													
23.0	1489.4	0.974	0.638													
24.0	1489.0	0.974	0.588													
25.0	1486.8	0.972	0.620													
26.0	1487.6	0.973	0.638													
27.0	1485.4	0.974	0.675													
28.0	1489.0	0.974	0.656													
29.0	1489.0	0.974	0.638													
30.0	1487.9	0.973	0.604													
31.0																

Cruise: BARTLT 1301-82
 Position: 14-50N;68-59W
 Calculated for: 23.0 Deg-C 35.00 d/oo

Sample: 42-2

Date: 10/29/81
 Depth: 4322m
 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.371	0.078									

Cruise: BARTLT 1301-82 Sample: 42-8 Date: 10/29/81
 Position: 14-50N;68-59W Depth: 4322m
 Calculated for: 23.0 Deg-C 35.00 α/ω 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1535.0	1.004	0.098													
0.0	1523.9	0.996	0.276													
1.0	1502.2	0.982	0.635													
2.0	1497.4	0.979	0.635													
3.0	1497.8	0.979	0.690													
4.0	1498.9	0.980	0.732													
5.0	1498.5	0.980	0.792													
6.0	1499.2	0.980	0.806													
7.0	1499.2	0.980	0.820													
8.0	1500.0	0.981	0.865													
9.0	1500.3	0.981	0.899													
10.0	1500.3	0.981	0.957													
11.0	1501.1	0.981	0.937													
12.0	1501.8	0.982	0.882													
13.0	1502.2	0.982	0.899													
14.0	1503.3	0.983	0.937													
15.0	1504.0	0.983	0.979													
16.0	1504.0	0.983	0.957													
17.0	1502.6	0.982	0.957													
18.0	1502.9	0.983	0.979													
19.0	1502.6	0.982	0.957													
20.0	1501.1	0.981	0.957													
21.0	1500.7	0.981	0.937													
22.0	1500.0	0.981	0.882													
23.0	1499.6	0.981	0.834													
24.0	1497.0	0.979	0.849													
25.0	1494.8	0.977	0.820													
26.0	1494.1	0.977	0.820													
27.0	1493.0	0.976	0.779													
28.0	1492.6	0.976	0.732													
29.0	1490.5	0.975	0.635													
30.0	1489.4	0.974	0.603													
31.0	1489.0	0.974	0.587													

Cruise: BARTLT 1301-82 Sample: 42-9 Date: 10/29/81
 Position: 14-50N;68-59W Depth: 4322m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.9	1.002	0.000													
0.0	1530.4	1.001	0.182													
1.0	1503.7	0.983	0.710					5.40								
2.0	1500.0	0.981	0.767													
3.0	1500.0	0.981	0.834													
4.0	1500.0	0.981	0.865													
5.0	1500.0	0.981	0.865					20.80								
6.0	1500.0	0.981	0.834													
7.0	1500.0	0.981	0.899					32.70								
8.0	1500.0	0.981	0.899													
9.0	1500.0	0.981	0.937													
10.0	1501.4	0.982	0.957					44.60								
11.0	1501.4	0.982	0.957													
12.0	1501.4	0.982	0.979					47.00								
13.0	1502.6	0.982	0.979													
14.0	1504.4	0.984	1.002													
15.0	1504.4	0.984	1.002													
16.0	1502.6	0.982	0.917					48.20								
17.0	1502.6	0.982	0.937													
18.0	1502.6	0.982	1.002					42.20								
19.0	1502.2	0.982	0.979													
20.0	1501.1	0.981	0.957													
21.0	1501.8	0.982	0.899													
22.0	1501.1	0.981	0.882													
23.0	1497.4	0.979	0.865					26.80								
24.0	1495.9	0.978	0.865													
25.0	1493.4	0.976	0.806					22.60								
26.0	1492.3	0.976	0.732													
27.0	1491.2	0.975	0.721													
28.0	1489.7	0.974	0.618													
29.0	1489.7	0.974	0.587					24.40								

Cruise: BARTLT 1301-82 Date: 10/29/81
 Position: 14-50N;68-59W Depth: 4322m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 42-10

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.1	0.999	0.000													
0.0	1527.3	0.999	0.170													
1.0	1502.6	0.982	0.635					7.10								
2.0	1498.9	0.980	0.690													
3.0	1497.8	0.979	0.779													
4.0	1499.2	0.980	0.834													
5.0	1500.0	0.981	0.806					21.40								
6.0	1499.6	0.981	0.834													
7.0	1499.2	0.980	0.899					36.90								
8.0	1499.2	0.980	0.917													
9.0	1498.5	0.980	0.957													
10.0	1499.2	0.980	1.002													
11.0	1500.7	0.981	0.937					43.40								
12.0	1499.2	0.980	0.899													
13.0	1501.4	0.982	0.937					48.70								
14.0	1502.2	0.982	1.026													
15.0	1502.2	0.982	0.979													
16.0	1502.2	0.982	0.937													
17.0	1501.8	0.982	0.937					52.30								
18.0	1502.6	0.982	1.002													
19.0	1500.3	0.981	1.026					38.60								
20.0	1499.2	0.980	0.979													
21.0	1498.5	0.980	0.937													
22.0	1497.8	0.979	0.834													
23.0	1497.0	0.979	0.849					35.10								
24.0	1494.5	0.977	0.806													
25.0	1493.7	0.977	0.820					30.30								
26.0	1492.3	0.976	0.806													
27.0	1490.5	0.975	0.755													
28.0	1489.7	0.974	0.652													
29.0	1488.3	0.973	0.618					28.50								
30.0	1487.6	0.973	0.618													
31.0	1486.8	0.972	0.559													
32.0	1487.2	0.972	0.496													
33.0	1486.1	0.972	0.496													
34.0	1493.0	0.976	0.635													
35.0	1496.3	0.978	0.865													

Cruise: BARTLT 1301-82 Date: 10/29/81
 Position: 14-50N;68-59W Depth: 4322m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 KHz

Sample: 42-11

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.4	1.001	0.000													
0.0	1515.6	0.991	0.573	81.3	62.50				56.40	6.51	37.09	4.76	4.36	0.64	0.57	0.36
1.0	1500.0	0.981	0.700						54.11	8.39	37.50	4.93	4.33	0.60	0.58	0.37
2.0	1497.0	0.979	0.792	77.9	63.24				52.14	8.21	39.66	5.17	4.33	0.52	0.58	0.37
3.0	1498.5	0.980	0.849						50.44	7.56	42.00	5.35	4.33	0.45	0.57	0.37
4.0	1498.1	0.980	0.820	77.0	64.12				52.31	8.77	38.92	5.17	4.37	0.52	0.58	0.37
5.0	1497.4	0.979	0.865	76.5	64.66				51.79	7.73	40.49	5.22	4.34	0.49	0.57	0.36
6.0	1497.0	0.979	0.834	75.2	63.40				46.69	9.93	43.38	5.95	4.34	0.16	0.58	0.37
7.0	1497.0	0.979	0.899	73.5	64.91				41.78	10.31	47.91	6.63	4.37	-0.09	0.57	0.36
8.0	1497.4	0.979	0.899	72.6	61.82				38.23	12.20	49.57	6.90	4.32	-0.21	0.58	0.37
9.0	1498.1	0.980	0.957	71.3	61.39				40.35	12.43	47.22	6.57	4.30	-0.02	0.58	0.37
10.0	1499.6	0.981	1.026	70.5	63.27				34.50	13.10	52.40	7.26	4.26	-0.32	0.61	0.38
11.0	1500.7	0.982	1.052	70.5	60.23				35.43	13.67	50.89	7.06	4.20	-0.28	0.61	0.38
12.0	1501.8	0.982	1.081	70.7	65.19				32.05	13.62	54.33	7.56	4.35	-0.36	0.64	0.39
13.0	1502.9	0.983	1.002	72.9	64.50				34.25	13.06	52.69	7.26	4.22	-0.35	0.62	0.38
14.0	1502.2	0.982	0.979	73.9	65.09				29.72	15.41	54.87	7.44	4.21	-0.36	0.66	0.40
15.0	1502.2	0.982	0.957	74.5	62.89				31.42	12.78	55.80	7.59	4.15	-0.41	0.65	0.39
16.0	1502.9	0.983	0.957	73.7	62.95				29.95	12.44	57.45	7.73	4.15	-0.46	0.66	0.40
17.0	1502.6	0.982	0.899	71.5	62.43											
18.0	1499.2	0.980	0.979													
19.0	1499.2	0.980	1.026													
20.0	1497.8	0.979	0.882													
21.0	1498.1	0.980	0.834													
22.0	1500.0	0.981	0.937													
23.0	1497.4	0.979	0.937													
24.0	1496.3	0.978	0.834													
25.0	1489.7	0.974	0.743													
26.0	1490.5	0.975	0.732													
27.0	1489.0	0.974	0.721													
28.0	1482.0	0.973	0.690													
29.0	1489.7	0.974	0.743													
30.0	1489.4	0.974	0.849													
31.0																
32.0																
33.0																

Cruise: BARTLT 1301-82 Sample: 42-17 Date: 10/29/81
 Position: 14-50N;68-59W Depth: 4322m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.8	1.001	-0.014													
0.0	1525.1	0.997	0.344					5.90								
1.0	1502.6	0.982	0.618													
2.0	1498.5	0.980	0.732													
3.0	1498.9	0.980	0.834													
4.0	1498.5	0.980	0.834					11.30								
5.0	1499.6	0.981	0.767													
6.0	1500.7	0.981	0.792					23.80								
7.0	1498.9	0.980	0.882													
8.0	1500.7	0.981	0.899													
9.0	1499.2	0.980	0.979													
10.0	1500.7	0.981	0.979					40.40								
11.0	1502.2	0.982	0.917													
12.0	1501.8	0.982	0.917					50.50								
13.0	1502.6	0.982	0.979													
14.0	1501.8	0.982	0.937													
15.0	1503.3	0.983	0.957													
16.0	1502.6	0.982	0.979					51.70								
17.0	1502.6	0.982	0.979													
18.0	1501.1	0.981	0.979					39.80								
19.0	1498.9	0.980	0.882													
20.0	1498.9	0.980	0.834													
21.0	1497.8	0.979	0.849													
22.0	1497.8	0.979	0.899													
23.0	1495.6	0.978	0.882					38.10								
24.0	1494.1	0.977	0.865					25.60								
25.0	1493.0	0.976	0.806													
26.0	1491.9	0.976	0.671													
27.0	1489.7	0.974	0.671													

Cruise: BARTLT 1301-82 Date: 10/29/81
 Position: 14-45N;68-52W Depth: 4493m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Sample: 43-1

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.014													
0.0	1521.6	0.995	0.292													
1.0	1498.9	0.980	0.546					5.90								
2.0	1498.1	0.980	0.618													
3.0	1498.1	0.980	0.635													
4.0	1497.8	0.979	0.603					11.90								
5.0	1498.5	0.980	0.603					25.00								
6.0	1498.9	0.980	0.603													
7.0	1498.9	0.980	0.690													
8.0	1497.8	0.979	0.690													
9.0	1498.9	0.980	0.710													
10.0	1499.2	0.980	0.755					51.70								
11.0	1500.0	0.981	0.755													
12.0	1500.7	0.981	0.671					54.10								
13.0	1501.1	0.981	0.767													
14.0	1501.8	0.982	0.865													
15.0	1501.8	0.982	0.820													
16.0	1501.8	0.982	0.767													
17.0	1502.2	0.982	0.834					62.40								
18.0	1502.2	0.982	0.849													
19.0	1502.2	0.982	0.899					53.50								
20.0	1500.3	0.981	0.834													
21.0	1499.6	0.981	0.806													
22.0	1501.1	0.981	0.806													
23.0	1499.6	0.981	0.732					47.60								
24.0	1497.0	0.979	0.755					34.50								
25.0	1493.4	0.976	0.671													
26.0	1491.9	0.976	0.618													
27.0	1492.6	0.976	0.618													
28.0	1491.9	0.976	0.652													
29.0	1493.7	0.977	0.690					39.20								
30.0	1492.3	0.976	0.690													
31.0	1491.5	0.975	0.635					36.90								
32.0	1491.5	0.975	0.671													
33.0	1492.3	0.976	0.710													
34.0	1492.3	0.976	0.710													
35.0	1492.6	0.976	0.834													

Cruise: BARTLT 1301-82 Sample: 43-2 Date: 10/29/81
 Position: 14-45N:68-52W Depth: 4493m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 KHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.6	1.001	-0.028													
0.0	1528.9	1.000	0.102													
1.0	1501.1	0.981	0.493					4.20								
2.0	1497.8	0.979	0.531													
3.0	1497.8	0.979	0.573													
4.0	1497.8	0.979	0.638													
5.0	1498.9	0.980	0.675					20.20								
6.0	1498.9	0.980	0.656													
7.0	1500.0	0.981	0.656					29.70								
8.0	1500.0	0.981	0.696													
9.0	1500.3	0.981	0.740													
10.0	1500.3	0.981	0.717													
11.0	1500.3	0.981	0.696					41.60								
12.0	1500.7	0.981	0.675													
13.0	1500.7	0.981	0.656					49.90								
14.0	1500.3	0.981	0.765													
15.0	1502.2	0.982	0.903													
16.0	1501.8	0.982	0.851													
17.0	1503.3	0.983	0.791					61.80								
18.0	1502.9	0.983	0.820													
19.0	1502.9	0.983	0.835					54.10								
20.0	1500.7	0.981	0.820													
21.0	1498.9	0.980	0.752													
22.0	1499.6	0.981	0.675													
23.0	1499.6	0.981	0.729					51.10								
24.0	1493.4	0.976	0.706													
25.0	1495.2	0.978	0.717					41.60								
26.0	1494.8	0.977	0.717													
27.0	1493.4	0.976	0.604													
28.0	1493.4	0.976	0.656													
29.0	1493.7	0.977	0.696					40.40								

Cruise: BARTLT 1301-82 Date: 10/29/81
 Position: 14-45N;68-52W Depth: 4493m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 43-3

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.014													
0.0	1490.1	0.974	0.485													
1.0	1503.3	0.983	0.533													
2.0	1502.2	0.982	0.508													
3.0	1501.1	0.981	0.533													
4.0	1499.2	0.980	0.652													
5.0	1499.2	0.980	0.652													
6.0	1499.2	0.980	0.635													
7.0	1500.0	0.981	0.671													
8.0	1499.6	0.981	0.690													
9.0	1499.2	0.980	0.710													
10.0	1498.5	0.980	0.710													
11.0	1498.5	0.980	0.652													
12.0	1499.6	0.981	0.618													
13.0	1500.3	0.981	0.743													
14.0	1501.8	0.982	0.710													
15.0	1502.2	0.982	0.806													
16.0	1502.2	0.982	0.834													
17.0	1503.7	0.983	0.820													
18.0	1503.3	0.983	0.834													
19.0	1503.7	0.983	0.882													
20.0	1501.8	0.982	0.865													
21.0	1501.8	0.982	0.834													
22.0	1499.2	0.980	0.834													
23.0	1499.2	0.980	0.755													
24.0	1499.2	0.980	0.710													
25.0	1498.9	0.980	0.732													
26.0	1495.9	0.978	0.755													
27.0	1494.5	0.977	0.618													
28.0	1494.5	0.977	0.652													
29.0	1493.0	0.976	0.618													
30.0	1492.6	0.976	0.603													
31.0	1492.3	0.976	0.618													
32.0	1493.7	0.977	0.635													
33.0	1493.7	0.977	0.732													
34.0	1492.3	0.976	0.690													
35.0	1490.5	0.975	0.652													

Cruise: BARTLT 1301-82 Sample: 43-6 Date: 10/29/81
 Position: 14-45N;68-52W Depth: 4493m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.014													
0.0	1517.9	0.992	0.292					6.50								
1.0	1502.6	0.982	0.485													
2.0	1497.4	0.979	0.573													
3.0	1497.8	0.979	0.618													
4.0	1497.8	0.979	0.635					23.80								
5.0	1499.2	0.980	0.652													
6.0	1498.9	0.980	0.690					36.30								
7.0	1498.9	0.980	0.710													
8.0	1499.2	0.980	0.710													
9.0	1498.9	0.980	0.732													
10.0	1498.9	0.980	0.710					56.50								
11.0	1498.9	0.980	0.671													
12.0	1499.2	0.980	0.690					60.60								
13.0	1502.2	0.982	0.820													
14.0	1502.2	0.982	0.849													
15.0	1502.2	0.982	0.779													
16.0	1501.4	0.982	0.779					63.00								
17.0	1503.7	0.983	0.865													
18.0	1505.9	0.985	0.899					52.30								
19.0	1502.9	0.983	0.865													
20.0	1501.4	0.982	0.806													
21.0	1500.3	0.981	0.710													
22.0	1498.5	0.980	0.732					46.40								
23.0	1500.0	0.981	0.806													
24.0	1497.8	0.979	0.792					35.70								
25.0	1497.8	0.979	0.820													
26.0	1492.3	0.976	0.779													

Cruise: BARTLT 1301-82 Sample: 43-15 Date: 10/29/81
 Position: 14-45N;68-52W Depth: 4493m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.6	1.001	0.000													
0.0	1523.2	0.996	0.247													
1.0	1502.9	0.983	0.499	81.5	55.10				45.53	9.25	45.23	6.15	4.36	-0.01	0.58	0.37
2.0	1498.1	0.980	0.632						55.35	7.94	36.34	4.78	4.29	0.68	0.57	0.36
3.0	1497.8	0.979	0.632	78.7	57.14				45.79	10.39	43.82	6.07	4.30	0.03	0.58	0.37
4.0	1498.1	0.980	0.632						46.84	10.15	43.01	6.03	4.32	0.07	0.58	0.37
5.0	1498.5	0.980	0.666	77.4	56.93				46.20	10.69	43.11	6.01	4.32	0.07	0.58	0.37
6.0	1497.4	0.979	0.704						39.73	12.92	47.35	6.57	4.25	-0.16	0.58	0.37
7.0	1497.4	0.979	0.666	77.1	58.40				32.67	15.00	52.33	6.90	4.07	-0.40	0.58	0.37
8.0	1498.1	0.980	0.704						37.89	13.66	48.45	6.66	4.18	-0.22	0.58	0.37
9.0	1498.9	0.980	0.746	75.8	58.60				35.62	14.93	49.45	6.73	4.03	-0.29	0.58	0.37
10.0	1498.9	0.980	0.746						34.07	15.79	50.13	6.87	4.08	-0.28	0.61	0.38
11.0	1498.9	0.980	0.724	74.6	54.39				31.45	16.85	51.70	6.96	3.94	-0.36	0.61	0.38
12.0	1499.2	0.980	0.714						31.43	17.74	50.82	6.92	3.92	-0.33	0.62	0.38
13.0	1501.4	0.982	0.820	73.4	55.29				26.56	18.61	54.83	7.26	3.85	-0.41	0.69	0.41
14.0	1501.1	0.981	0.848						25.58	19.09	55.32	7.30	3.77	-0.43	0.70	0.41
15.0	1502.6	0.982	0.793	72.6	56.40				26.32	18.44	55.18	7.27	3.77	-0.43	0.69	0.41
16.0	1502.6	0.982	0.757						27.47	19.53	53.00	7.14	3.68	-0.40	0.65	0.39
17.0	1502.6	0.982	0.793	71.3	57.81											
18.0	1502.6	0.982	0.820													
19.0	1501.8	0.982	0.793	71.3	57.41											
20.0	1500.3	0.981	0.793													
21.0	1498.9	0.980	0.781	71.4	57.30											
22.0	1499.2	0.980	0.757													
23.0	1494.1	0.977	0.724	71.5	56.36											
24.0	1494.8	0.977	0.704													
25.0	1494.8	0.977	0.757	72.3	58.65											
26.0	1494.1	0.977	0.685													
27.0	1494.1	0.977	0.632	72.7	57.78											
28.0	1490.5	0.975	0.617													
29.0	1496.3	0.978	0.820	73.0	58.28											
30.0																
31.0				71.3	58.65											

Cruise: BARTLT 1301-82 Sample: 43-17 Date: 10/29/81
 Position: 14-45N;68-52W Depth: 4493m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth	Vp	Attn.	%	%	%	%	%	%	Mean	Dev	Skew	Kurt	N.
(cm)	m/sec	k	Por.	CaCO3	C	N	Str.	Sand	Silt	Clay	Phi	Kurt	Kurt
1.0					0.344	0.081							

Cruise: BARTLT 1301-82 Sample: 44-3 Date: 10/30/81
 Position: 14-19N;68-22W Depth: 4805m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0																

Cruise: BARTLT 1301-82 Sample: 44-11 Date: 10/30/81
 Position: 14-19N;68-22W Depth: 4805m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.9	1.000	0.000													
0.0	1505.9	0.985	0.323													
1.0	1495.6	0.978	0.233													
2.0	1493.7	0.977	0.247													
3.0	1492.3	0.976	0.275													
4.0	1492.3	0.976	0.275													
5.0	1491.9	0.976	0.290													
6.0	1489.4	0.974	0.290													
7.0	1490.8	0.975	0.306													
8.0	1489.7	0.974	0.261													
9.0	1489.4	0.974	0.247													
10.0	1489.4	0.974	0.233													
11.0	1490.8	0.975	0.220													
12.0	1490.1	0.974	0.220													
13.0	1491.2	0.975	0.247													
14.0	1492.3	0.976	0.323													
15.0	1492.6	0.976	0.398													
16.0	1490.8	0.975	0.358													
17.0	1490.8	0.975	0.340													
18.0	1490.8	0.975	0.378													
19.0	1490.8	0.975	0.378													
20.0	1491.9	0.976	0.398													
21.0	1493.4	0.976	0.420													
22.0	1493.4	0.976	0.443													
23.0	1494.5	0.977	0.477													
24.0	1496.3	0.978	0.488													
25.0	1497.0	0.979	0.499													
26.0	1495.9	0.978	0.522													
27.0	1495.9	0.978	0.617													
28.0	1493.0	0.976	0.666													
29.0	1497.8	0.979	0.704													
30.0	1497.8	0.979	0.704													
31.0	1496.3	0.978	0.724													

Cruise: BARTLT 1301-82 Date: 10/30/81
 Position: 14-19N; 68-22W Depth: 4805m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Sample: 44-12

Sample: 44-12
 Position: 14-19N; 68-22W
 Calculated for: 23.0 Deg-C 35.00 d/oo

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.028													
0.0	1521.7	0.995	0.232						26.37	8.75	64.87	7.61	4.25	-0.59	0.68	0.41
1.0	1496.7	0.979	0.205	82.7	40.10				27.87	9.29	62.84	7.59	4.35	-0.53	0.64	0.39
2.0	1493.7	0.977	0.218													
3.0	1493.7	0.977	0.247	80.5	42.00				28.09	8.39	63.52	7.59	4.26	-0.55	0.64	0.39
4.0	1493.0	0.976	0.247													
5.0	1492.3	0.976	0.247	78.9	40.39				25.60	10.70	63.69	7.59	4.19	-0.53	0.71	0.41
6.0	1491.2	0.975	0.247													
7.0	1491.2	0.975	0.232	78.1	39.32				24.46	9.86	65.69	7.77	4.26	-0.51	0.80	0.45
8.0	1490.8	0.975	0.218	77.4	38.56				17.40	11.27	71.33	8.43	3.87	-0.53	1.37	0.58
9.0	1490.8	0.975	0.218													
10.0	1490.8	0.975	0.218	76.0	34.45				19.55	10.91	69.55	8.10	4.01	-0.57	1.27	0.56
11.0	1490.8	0.975	0.167													
12.0	1490.8	0.975	0.262	75.1	36.65				23.01	11.19	65.80	7.86	4.26	-0.52	0.91	0.48
13.0	1491.6	0.975	0.312						24.85	11.07	64.08	7.80	4.28	-0.53	0.74	0.43
14.0	1491.9	0.976	0.349	74.7	41.62				20.96	11.50	67.54	7.81	3.91	-0.64	1.06	0.52
15.0	1492.6	0.976	0.349													
16.0	1492.6	0.976	0.349	74.4	40.94				23.70	11.85	64.44	7.69	4.09	-0.57	0.87	0.46
17.0	1493.4	0.976	0.349						26.73	11.64	61.64	7.44	4.04	-0.56	0.67	0.40
18.0	1493.7	0.977	0.312	74.0	41.09				24.84	13.31	61.85	7.50	3.95	-0.57	0.73	0.42
19.0	1493.7	0.977	0.349						25.47	14.55	59.98	7.46	3.93	-0.52	0.71	0.41
20.0	1494.8	0.977	0.370	74.1	42.57				26.52	15.04	58.44	7.36	3.84	-0.53	0.67	0.40
21.0	1494.8	0.977	0.391						28.81	15.60	55.59	7.22	3.95	-0.43	0.64	0.39
22.0	1495.2	0.978	0.419	73.6	44.73				27.94	16.05	55.94	7.21	3.87	-0.48	0.65	0.39
23.0	1496.3	0.978	0.449						19.57	16.69	63.74	7.82	3.55	-0.58	0.90	0.47
24.0	1497.0	0.979	0.482	73.2	44.35											
25.0	1498.9	0.980	0.518													
26.0	1496.7	0.979	0.518	72.7	46.51											
27.0	1498.5	0.980	0.544													
28.0	1499.6	0.981	0.604	72.8	48.89											
29.0	1499.6	0.981	0.588													
30.0	1499.6	0.981	0.675	72.6	49.63											
31.0	1498.5	0.980	0.675													
32.0				72.3	51.71											
33.0																
34.0				72.5	44.75											
35.0																

Cruise: BARTLT 1301-82 Sample: 44-13 Date: 10/30/81
 Position: 14-19N; 68-22W Depth: 4805m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.4	1.002	-0.014													
0.0	1526.3	0.998	0.170					4.80								
1.0	1498.9	0.980	0.276													
2.0	1495.2	0.978	0.292													
3.0	1493.7	0.977	0.309													
4.0	1493.7	0.977	0.292													
5.0	1492.6	0.976	0.292					16.60								
6.0	1491.6	0.975	0.276					19.60								
7.0	1492.3	0.976	0.261													
8.0	1490.5	0.975	0.276													
9.0	1490.8	0.975	0.247													
10.0	1490.1	0.974	0.219					42.80								
11.0	1490.1	0.974	0.219					50.50								
12.0	1491.2	0.975	0.182													
13.0	1491.6	0.975	0.170													
14.0	1491.6	0.975	0.247													
15.0	1493.4	0.976	0.309					49.30								
16.0	1493.7	0.977	0.364					50.50								
17.0	1494.8	0.977	0.364													
18.0	1493.7	0.977	0.309													
19.0	1494.5	0.977	0.326													
20.0	1496.3	0.978	0.364													
21.0	1496.7	0.979	0.364													
22.0	1496.7	0.979	0.406					50.00								
23.0	1498.1	0.980	0.433					42.20								
24.0	1498.1	0.980	0.453													
25.0	1498.9	0.980	0.463													
26.0	1499.3	0.980	0.508													
27.0								52.90								
28.0																
29.0																

Cruise: BARTLT 1301-82 Sample: 44-14 Date: 10/30/81
 Position: 14-19N;68-22W Depth: 4805m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.0	1.002	0.000													
0.0	1517.5	0.992	0.261					4.20								
1.0	1495.2	0.978	0.247													
2.0	1493.4	0.976	0.261													
3.0	1493.4	0.976	0.276													
4.0	1492.6	0.976	0.261					7.70								
5.0	1492.6	0.976	0.261													
6.0	1492.6	0.976	0.261					11.30								
7.0	1492.6	0.976	0.261													
8.0	1492.3	0.976	0.247													
9.0	1491.9	0.976	0.233													
10.0	1491.6	0.975	0.219					23.20								
11.0	1491.9	0.976	0.219													
12.0	1491.9	0.976	0.206					47.60								
13.0	1493.0	0.976	0.292													
14.0	1494.8	0.977	0.344													
15.0	1494.8	0.977	0.364													
16.0	1494.8	0.977	0.364					46.40								
17.0	1494.5	0.977	0.364													
18.0	1495.2	0.978	0.344					54.70								
19.0	1495.2	0.978	0.344													
20.0	1496.7	0.979	0.453													
21.0	1498.1	0.980	0.443													
22.0	1498.1	0.980	0.443					51.70								
23.0	1498.9	0.980	0.474													
24.0	1498.9	0.980	0.485					52.30								
25.0	1499.3	0.980	0.474													
26.0	1501.5	0.982	0.587													
27.0	1502.6	0.982	0.635													
28.0								47.60								
29.0																
30.0								53.50								
31.0																

Cruise: BARTLT 1301-82
 Position: 13-44N; 67-48W
 Calculated for: 23.0 Deg-C

Sample: 47-1
 35.00 o/oo

Date: 11/01/81
 Depth: 5049m
 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
32.0	1505.0	0.984	0.233													
33.0	1503.1	0.983	0.159													
34.0	1540.7	1.007	0.603													
35.0	1533.3	1.003	0.559													
36.0	1523.4	0.996	0.485													

Cruise: EANL14 1301-82
 Position: 13-44K:67-48K
 Calculated for: 23.6 Deg-C

Sample: 47-2
 Date: 11/01/81
 Depth: 5049m
 0 m 400 kHz

35.00 c/oo
 50.98
 56.19

Depth (cm)	VP m/sec	VP Ratio	Attn. K	% Por.	% CaCO3	% C	% F	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N.
32.0	1498.0	0.979	0.098					50.98								
33.0	1498.0	0.979	0.098					56.19								
34.0	1497.2	0.979	0.098													
35.0	1507.2	0.985	0.261													
36.0	1539.5	1.007	0.429													

Cruise: BARTLT 1301-82 Sample: 48-3 Date: 11/01/81
 Position: 13-44N;67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1499.1	0.980	0.167													
2.0	1494.3	0.977	0.123													
3.0	1493.9	0.977	0.144													
4.0	1491.7	0.975	0.123													
5.0	1489.9	0.974	0.102													
6.0	1489.6	0.974	0.083													
7.0	1489.9	0.974	0.083													
8.0	1491.0	0.975	0.065													
9.0	1491.0	0.975	0.065													
10.0	1492.8	0.976	0.056													
11.0	1501.6	0.982	0.123													
12.0	1503.8	0.983	0.144													
13.0	1507.9	0.986	0.144													
14.0	1511.3	0.988	0.247													
15.0	1517.3	0.992	0.471													
16.0	1536.0	1.004	0.471													
17.0	1537.1	1.005	0.482													
18.0	1527.5	0.999	0.391													
19.0	1540.6	1.007	0.851													
20.0	1563.5	1.022	0.942													
21.0	1543.3	1.009	0.518													
22.0	1497.6	0.979	0.752													
23.0	1488.5	0.973	0.083													
24.0	1487.4	0.973	0.065													
25.0	1487.4	0.973	0.083													
26.0	1487.7	0.973	0.056													
27.0	1488.8	0.973	0.048													
28.0	1491.7	0.975	0.048													
29.0	1495.7	0.978	0.048													
30.0	1505.0	0.984	0.102													
31.0	1501.3	0.982	0.083													
32.0	1498.3	0.980	0.083													
33.0	1502.7	0.983	0.167													

Cruise: BARTLT 1301-82 Date: 11/01/81
 Position: 13-44N 167-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 48-4

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1506.8	0.985	0.330					5.20								
2.0	1502.7	0.983	0.294					8.32								
3.0	1496.5	0.978	0.232													
4.0	1493.2	0.976	0.167					13.53								
5.0	1490.6	0.975	0.144					33.30								
6.0	1489.9	0.974	0.123					45.79								
7.0	1489.6	0.974	0.112					174.82								
8.0	1489.9	0.974	0.112													
9.0	1490.6	0.975	0.093													
10.0	1491.0	0.975	0.102													
11.0	1494.7	0.977	0.112													
12.0	1506.8	0.985	0.218													
13.0	1506.1	0.985	0.144													
14.0	1514.3	0.990	0.218													
15.0	1514.7	0.990	0.391													
16.0	1506.4	0.985	0.312													
17.0	1519.5	0.994	0.439													
18.0	1548.0	1.012	0.696													
19.0	1572.7	1.028	0.696													
20.0	1552.7	1.015	0.740													
21.0	1531.3	1.001	0.588													
22.0	1490.3	0.974	0.330													
23.0	1486.7	0.972	0.083													
24.0	1485.6	0.971	0.093													
25.0	1485.2	0.971	0.093													
26.0	1486.3	0.972	0.065													
27.0	1487.4	0.973	0.056													
28.0	1489.6	0.974	0.048													
29.0	1492.1	0.976	0.048													
30.0	1492.1	0.976	0.048													
31.0	1503.1	0.983	0.102													
32.0	1506.4	0.985	0.093													
33.0	1494.3	0.977	0.074													

Cruise: BARTLT 1301-82 Sample: 48-5 Date: 11/01/81
 Position: 13-44N;67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
15.0	1525.2	0.997	0.391													
16.0	1520.7	0.994	0.391													
17.0	1520.3	0.994	0.391													
18.0	1521.1	0.995	0.370													
19.0	1529.4	1.000	0.439													
20.0	1541.8	1.008	0.604													
21.0	1553.9	1.016	0.573													
22.0	1544.9	1.010	0.531													
23.0	1541.8	1.008	0.588													
24.0	1554.7	1.017	1.066													
25.0	1499.8	0.981	1.066													
26.0	1493.2	0.976	0.278													
27.0	1486.3	0.972	0.074													
28.0	1485.9	0.972	0.065													
29.0	1485.9	0.972	0.065													
30.0	1486.7	0.972	0.048													
31.0	1488.1	0.973	0.031													
32.0	1493.2	0.976	0.048													
33.0	1503.1	0.983	0.123													

Cruise: BARTLT 1301-82 Sample: 48-6 Date: 11/01/81
 Position: 13-44N;67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
15.0	1534.8	1.004	0.312					8.32								
16.0	1529.8	1.000	0.391													
17.0	1529.8	1.000	0.391					12.49								
18.0	1533.3	1.003	0.429													
19.0	1543.3	1.009	0.482					28.10								
20.0	1555.9	1.017	0.638					31.22								
21.0	1588.2	1.038	0.922					14.57								
22.0	1601.1	1.047	0.922					19.77								
23.0	1571.5	1.028	0.851					31.22								
24.0	1492.8	0.976	0.370													
25.0	1485.9	0.972	0.065													
26.0	1485.9	0.972	0.056													
27.0	1487.4	0.973	0.083													
28.0	1486.3	0.972	0.048													
29.0	1487.7	0.973	0.048													
30.0	1488.1	0.973	0.048					136.32								
31.0	1493.2	0.976	0.048													
32.0	1504.2	0.984	0.144					45.79								

Cruise: BARTLT 1301-82 Sample: 48-7 Date: 11/01/81
 Position: 13-44N;67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
15.0	1533.7	1.003	0.531					9.37								
16.0	1528.7	1.000	0.439													
17.0	1526.0	0.998	0.391					6.24								
18.0	1522.2	0.995	0.349													
19.0	1522.2	0.995	0.349					10.41								
20.0	1527.9	0.999	0.471													
21.0	1555.9	1.017	0.740					15.61								
22.0	1545.7	1.011	0.647													
23.0	1544.9	1.010	0.604					14.57								
24.0	1539.4	1.007	0.885													
25.0	1488.8	0.973	0.102					14.57								
26.0	1487.0	0.972	0.056													
27.0	1486.7	0.972	0.065					19.77								
28.0	1486.7	0.972	0.056													
29.0	1487.0	0.972	0.048					78.88								
30.0	1487.7	0.973	0.048													
31.0	1491.0	0.975	0.048					126.95								
32.0	1509.4	0.987	0.218													
33.0	1505.3	0.984	0.102					32.25								
34.0	1496.8	0.979	0.074													
35.0	1495.0	0.978	0.102					36.42								
36.0	1493.6	0.977	0.133													

Cruise: BARTLT 1301-82 Sample: 48-8 Date: 11/01/81
 Position: 13-44N;67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 g/cc 0 m 400 KHz

Depth (cm)	VP m/sec	VF Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
35.0	1513.6	0.990	0.717													
36.0	1506.1	0.985	0.638													
37.0	1531.4	1.001	0.740													

Cruise: BARTLT 1301-82
 Position: 13-44N:67-48W
 Calculated for: 23.0 Deg-C

Sample: 48-9
 Date: 11/01/81
 Depth: 5049m
 0 m 400 kHz

35.00 o/oo
 Deg-C

Depth (Cn)	VP m/sec	VP Ratio	Attn. k	Por.	% CaCO3	% C	% N	Shear Str.	Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
33.0								110.30								
34.0	1496.5	0.978	1.458					15.61								
35.0	1499.1	0.980	0.294													
36.0	1493.6	0.977	0.093					34.34								
37.0	1500.5	0.981	0.414													
38.0																
39.0								54.11								

Cruise: BARTLT 1301-82 Sample: 48-8 Date: 11/01/81
 Position: 13-44N;67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 KHz

Depth (cm)	vp m/sec	Vf Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
35.0	1513.6	0.990	0.717													
36.0	1506.1	0.985	0.638													
37.0	1531.4	1.001	0.740													

Cruise: BARTLT 1301-82 Sample: 48-9 Date: 11/01/81
 Position: 13-44N; 67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
33.0								110.30								
34.0	1496.5	0.978	1.458					15.61								
35.0	1499.1	0.980	0.294													
36.0	1493.6	0.977	0.093					34.34								
37.0	1500.5	0.981	0.414													
38.0								54.11								
39.0																

Cruise: BARTLT 1301-82 Sample: 51-3 Date: 11/02/81
 Position: 13-44N; 67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.6	0.999	0.000													
0.0	1523.2	0.996	0.065						0.87	17.61	81.51	10.11	2.24	-0.12	1.04	0.51
1.0	1498.5	0.980	0.112	85.5	7.38				1.01	18.30	80.69	9.98	2.17	-0.15	1.10	0.52
2.0	1493.0	0.976	0.083	82.8	7.38				0.45	18.93	80.63	10.10	2.27	-0.09	0.95	0.49
3.0	1490.8	0.975	0.093	80.9	6.29				0.12	20.12	79.76	10.10	2.28	-0.07	0.88	0.47
4.0	1491.6	0.975	0.093	78.4	4.40				0.09	23.40	76.50	9.93	2.33	-0.07	0.87	0.47
5.0	1489.4	0.974	0.083	74.5	3.17				0.10	32.34	67.56	9.42	2.50	0.03	0.88	0.47
6.0	1488.6	0.973	0.065	70.7	2.77				0.08	32.30	67.62	9.29	2.36	-0.06	0.92	0.48
7.0	1486.8	0.972	0.056	75.3	3.85				0.62	44.38	55.00	8.66	2.87	0.10	0.78	0.44
8.0	1486.5	0.972	0.056	56.4	4.43				1.46	82.83	15.70	5.86	2.08	0.59	2.46	0.71
9.0	1487.9	0.973	0.065													
10.0	1489.0	0.974	0.083													
11.0	1491.2	0.975	0.093													
12.0	1496.7	0.979	0.123													
13.0																
13.5																
14.0	1499.3	0.980	0.167													
14.5	1505.9	0.985	0.439													
15.0	1528.6	0.999	0.820													
16.0																

Cruise: BARTLT 1301-82
 Position: 13-44N;67-48W
 Calculated for: 23.0 Deg-C

Sample: 51-4
 35.00 d/oo

Date: 11/02/81
 Depth: 5049m
 0 m 400 KHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.5	0.999	0.000													
0.0	1514.9	0.991	0.131					2.08								
1.0	1497.8	0.979	0.112					4.16								
2.0	1495.6	0.978	0.112					9.37								
3.0	1493.7	0.977	0.112					15.61								
4.0	1492.3	0.976	0.112					13.53								
5.0	1490.5	0.975	0.112					12.49								
6.0	1489.0	0.974	0.112													
7.0	1487.6	0.973	0.093													
8.0	1486.5	0.972	0.085													
9.0	1486.8	0.972	0.085													
10.0	1487.2	0.972	0.093													
11.0	1488.3	0.973	0.085													
12.0	1488.6	0.973	0.093													
13.0	1489.7	0.974	0.102													
14.0	1492.3	0.976	0.102													
15.0	1496.3	0.978	0.121													
16.0	1497.8	0.979	0.173													
17.0	1498.5	0.980	0.290													
18.0	1513.7	0.990	0.724													
19.0	1500.4	0.981	1.160													

Cruise: BARTLT 1301-82 Sample: 51-5 Date: 11/02/81
 Position: 13-44N; 67-48W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Att. k	% Pcr.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
14.0	1519.0	0.993	0.262													
15.0	1517.5	0.992	0.247	75.4	4.88				3.66	61.06	35.28	7.39	2.73	0.47	0.90	0.47
16.0	1517.9	0.992	0.247						6.11	54.86	39.03	7.51	2.91	0.35	0.80	0.44
17.0	1518.7	0.993	0.278	79.0	5.41											
18.0	1535.5	1.004	0.192						2.05	75.33	22.62	6.78	2.41	0.59	1.28	0.56
19.0	1549.5	1.013	0.192	64.6	5.52				4.38	65.08	30.55	7.01	2.69	0.56	0.86	0.46
20.0	1539.4	1.007	0.205	66.9	3.96				3.17	68.70	28.13	7.00	2.66	0.59	0.96	0.49
21.0	1525.9	0.998	0.370						2.59	73.94	23.47	6.74	2.57	0.60	1.18	0.54
22.0	1525.1	0.997	0.349	69.4	6.18				2.30	80.50	17.19	6.10	2.04	0.56	1.71	0.63
23.0	1524.7	0.997	0.312	66.7	5.09				2.16	75.05	22.79	6.64	2.59	0.64	1.21	0.55
24.0	1526.3	0.998	0.349						0.46	20.35	79.19	9.88	2.18	-0.17	1.12	0.53
25.0	1594.5	1.043	0.391	80.3	4.61				0.11	20.89	79.00	10.06	2.32	-0.10	0.92	0.48
26.0	1551.1	1.014	0.604	59.5	5.17				0.58	20.36	79.06	9.96	2.27	-0.14	1.03	0.51
27.0	1569.9	1.026	0.740	65.2	6.17				0.00	21.36	78.64	10.06	2.33	-0.08	0.89	0.47
28.0	1516.8	0.992	0.429						0.00	25.41	74.59	9.70	2.28	-0.14	1.00	0.50
29.0	1515.3	0.991	0.604	79.5	5.26				0.11	34.02	65.87	9.36	2.67	0.00	0.84	0.46
30.0	1487.9	0.973	0.133	79.2	6.15											
31.0	1485.4	0.971	0.065	73.3	3.33											
32.0	1483.9	0.970	0.074	68.3	1.67											
33.0	1484.3	0.971	0.074													
34.0	1484.7	0.971	0.056	75.9	2.82											
35.0	1486.1	0.972	0.048													
36.0	1487.6	0.973	0.031													
37.0	1492.6	0.976	0.048													
38.0	1501.8	0.982	0.102													
39.0	1500.7	0.981	0.167													
40.0																
41.0																

Cruise: BARTLT 1301-82
 Position: 13-44N;67-48W
 Calculated for: 23.0 Deg-C 35.00 o/oo

Sample: 51-7
 Date: 11/02/81
 Depth: 5049m
 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
16.0	1494.8	0.977	0.206													
17.0	1507.8	0.986	0.508													
18.0	1516.4	0.991	0.474					13.53								
19.0	1516.4	0.991	0.424					16.65								
20.0	1519.4	0.993	0.453					10.41								
21.0	1525.5	0.997	0.463					10.41								
22.0	1530.4	1.001	0.485													
23.0	1533.1	1.002	0.533													
24.0	1521.3	0.995	0.364					17.96								
25.0	1519.4	0.993	0.276					14.57								
26.0	1532.4	1.002	0.587					10.41								
27.0	1554.6	1.016	0.652					12.49								
28.0	1557.0	1.018	0.587					27.06								
29.0	1586.1	1.037	0.792					105.10								
30.0	1488.6	0.973	0.117					55.16								
31.0	1486.5	0.972	0.079					20.81								
32.0	1485.7	0.971	0.079													
33.0	1485.7	0.971	0.071													
34.0	1486.5	0.972	0.062													
35.0	1486.8	0.972	0.046													
36.0	1495.9	0.978	0.079													
37.0	1510.4	0.988	0.219													
38.0	1501.1	0.981	0.117													
39.0	1491.9	0.976	0.098													

Cruise: BARTLT 1301-82 Sample: 53-16 Date: 11/03/81
 Position: 13-47N;67-47W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0							0.849									
2.0																
3.0							0.690									
4.0																
5.0							0.688									
6.0																

Cruise: BARTLT 1301-82 Sample: 53-18 Date: 11/03/81
 Position: 13-47N;67-47W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 q/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.0	1.000	0.000													
0.0	1521.5	0.995	0.102					2.08								
1.0	1499.4	0.980	0.102					6.24								
2.0	1492.8	0.976	0.093					10.41								
3.0	1489.9	0.974	0.093					16.65								
4.0	1488.6	0.973	0.093					21.85								
5.0	1487.0	0.972	0.083					48.91								
6.0	1486.6	0.972	0.083					88.45								
7.0	1485.9	0.972	0.083					84.29								
8.0	1485.5	0.971	0.083													
9.0	1486.6	0.972	0.074													
10.0	1486.6	0.972	0.065													
11.0	1488.1	0.973	0.065													
12.0	1489.5	0.974	0.065													
13.0	1491.0	0.975	0.074													
14.0	1494.3	0.977	0.083													
15.0	1493.5	0.977	0.093													
16.0	1492.8	0.976	0.123													
17.0	1492.4	0.976	0.167													
18.0	1504.2	0.984	0.370													
19.0	1514.3	0.990	0.638													

Cruise: BARTLT 1301-82 Sample: 53-19 Date: 11/03/81
 Position: 13-47N;67-47W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001	-0.015													
0.0	1525.6	0.998	0.083						0.94	16.29	82.76	10.13	2.13	-0.11	1.11	0.53
1.0	1500.1	0.981	0.102	85.9	6.46											
2.0	1495.0	0.978	0.083						0.23	17.41	82.36	10.23	2.25	-0.08	0.93	0.48
3.0	1493.2	0.976	0.093	83.3	6.57											
4.0	1492.1	0.976	0.083						0.24	18.35	81.41	10.10	2.20	-0.10	1.00	0.50
5.0	1489.9	0.974	0.083	81.1	5.43											
6.0	1489.2	0.974	0.074						0.28	19.40	80.32	10.12	2.28	-0.08	0.91	0.48
7.0	1488.1	0.973	0.065	79.5	3.85											
8.0	1487.3	0.973	0.056						0.10	20.32	79.58	10.12	2.31	-0.05	0.86	0.46
9.0	1488.1	0.973	0.048	74.8	3.07											
10.0	1489.9	0.974	0.048						0.07	25.20	74.73	9.82	2.34	-0.01	0.88	0.47
11.0	1490.3	0.974	0.048	71.3	2.42											
12.0	1492.4	0.976	0.048						0.31	25.05	74.64	9.72	2.26	-0.19	0.88	0.47
13.0	1501.2	0.982	0.083	70.8	2.05											
14.0	1501.2	0.982	0.102													
15.0	1497.2	0.979	0.167						0.60	45.59	53.82	8.58	2.91	0.10	0.77	0.44
16.0	1497.2	0.979	0.262	75.2	4.17											
17.0	1487.7	0.973	0.102													
18.0	1486.3	0.972	0.065													
19.0	1486.6	0.972	0.048													
20.0	1487.0	0.972	0.031													
21.0	1491.3	0.975	0.048													
22.0	1499.0	0.980	0.083													
23.0	1496.8	0.979	0.065													
24.0	1492.1	0.976	0.102													

Cruise: BARTLT 1301-82 Sample: 53-20 Date: 11/03/81
 Position: 13-47N:67-47W Depth: 5049m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
17.0	1497.9	0.979	0.179													
18.0	1511.7	0.988	0.400													
19.0	1528.0	0.999	0.518					12.49								
20.0	1537.3	1.005	0.573													
21.0	1527.6	0.999	0.471					13.53								
22.0	1526.5	0.998	0.439					9.37								
23.0	1526.5	0.998	0.439					7.28								
24.0	1552.6	1.015	0.851													
25.0	1554.2	1.016	0.820													
26.0	1534.6	1.003	0.765					12.49								
27.0	1533.4	1.003	0.765													
28.0	1550.2	1.014	0.765					10.41								
29.0	1549.4	1.013	0.638													
30.0	1489.5	0.974	0.391					11.45								
31.0	1484.8	0.971	0.102													
32.0	1484.4	0.971	0.093					15.61								
33.0	1484.4	0.971	0.102													
34.0	1484.1	0.970	0.102					18.73								
35.0	1480.5	0.968	0.093													
36.0	1485.5	0.971	0.083					47.87								
37.0	1481.2	0.968	0.083													
38.0	1487.7	0.973	0.133													
39.0	1491.0	0.975	0.391					110.30								

Date: 11/03/81
Depth: 5049m
0 m 400 kHz

Cruise: BARTLT 1301-82 Sample: 53-21
Position: 13-47N;67-47W
Calculated for: 23.0 Deg-C 35.00 o/oo

Depth (cm)	vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
14.0	1526.4	0.998	0.638	64.0	2.92				0.71	69.23	30.06	7.41	2.44	0.52	0.94	0.48
15.0	1524.5	0.997	0.493													
16.0	1515.4	0.991	0.419	68.0	3.55				1.28	63.62	35.10	7.55	2.54	0.50	0.82	0.45
17.0	1510.2	0.987	0.312													
18.0	1512.8	0.989	0.312						3.03	58.54	38.42	7.61	2.76	0.41	0.79	0.44
19.0	1514.7	0.990	0.330	72.9	4.33				4.24	64.79	30.97	7.16	2.61	0.56	0.89	0.47
20.0	1515.8	0.991	0.312													
21.0	1517.7	0.992	0.312	73.1	4.50											
22.0	1524.9	0.997	0.429						1.19	82.41	16.40	6.24	1.85	0.55	1.86	0.65
23.0	1554.0	1.016	0.791	58.5	4.30											
24.0	1550.8	1.014	0.805						3.49	75.59	20.93	6.59	2.41	0.59	1.48	0.60
25.0	1541.4	1.008	0.740	62.8	5.06				2.37	74.72	22.91	6.66	2.51	0.60	1.25	0.55
26.0	1533.3	1.003	0.706													
27.0	1540.7	1.007	0.729	61.0	5.04				0.43	22.14	77.43	9.92	2.31	-0.12	0.94	0.49
28.0	1494.3	0.977	0.382													
29.0	1487.7	0.973	0.074	79.8	4.44				0.26	20.80	78.95	10.05	2.31	-0.11	0.88	0.47
30.0	1487.0	0.972	0.065													
31.0	1487.0	0.972	0.065	78.7	5.83				0.10	22.72	77.18	10.00	2.37	-0.08	0.87	0.46
32.0	1487.3	0.973	0.056													
33.0	1489.5	0.974	0.093	76.6	3.72				0.09	21.06	78.85	9.96	2.26	-0.12	0.99	0.50
34.0	1493.2	0.976	0.218													
35.0	1497.2	0.979	0.330	74.0	2.26				0.00	24.45	75.55	9.84	2.30	-0.11	0.95	0.49
36.0																
37.0				73.1	2.05											

Cruise: BARTLT 1301-82 Sample: 54-1 Date: 11/03/81
 Position: 13-43N;67-44W Depth: 5052m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
20.0	1507.0	0.985	1.012													
21.0	1502.9	0.983	0.192													
22.0	1514.1	0.990	0.278					8.32								
23.0	1540.5	1.007	0.558													
24.0	1558.2	1.019	0.518					10.41								
25.0	1553.4	1.016	0.531					16.65								
26.0	1559.0	1.019	0.604					28.10								
27.0	1603.2	1.048	0.820					29.14								
28.0	1562.2	1.021	0.604					15.61								
29.0	1566.6	1.024	0.656					15.61								
30.0	1607.0	1.051	0.765					19.77								
31.0	1584.9	1.036	0.717					18.73								
32.0	1492.6	0.976	0.409					154.00								
33.0	1485.0	0.971	0.065					56.19								
34.0	1485.0	0.971	0.048					26.02								
35.0	1484.7	0.971	0.048													
36.0	1484.7	0.971	0.048													
37.0	1484.7	0.971	0.048													
38.0	1486.8	0.972	0.031													
39.0	1488.6	0.973	0.031													
40.0	1491.2	0.975	0.031													
41.0	1499.6	0.981	0.102													
42.0	1501.1	0.981	0.123													
43.0																
44.0																
45.0																

Cruise: BARTLT 1301-82 Date: 11/03/81
 Position: 13-43N;67-44W Depth: 5052m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 54-2

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
20.0	1505.9	0.985	0.219													
21.0	1533.9	1.003	0.732													
22.0	1544.4	1.010	0.508	63.7	3.62				1.06	76.08	22.86	6.84	2.30	0.62	1.30	0.57
23.0	1533.6	1.003	0.443						2.38	64.29	33.33	7.27	2.68	0.55	0.87	0.46
24.0	1528.2	0.999	0.406	70.9	4.34				2.27	67.89	29.83	7.09	2.57	0.60	0.92	0.48
25.0	1524.4	0.997	0.344						1.80	87.09	11.11	5.52	1.57	0.41	2.24	0.69
26.0	1525.5	0.997	0.364	70.4	5.67				2.47	86.56	10.97	5.24	1.46	0.41	2.07	0.67
27.0	1538.6	1.006	0.834	55.6	4.46				0.12	20.39	79.49	10.09	2.35	-0.09	0.90	0.47
28.0	1604.1	1.049	0.690						0.16	20.20	79.64	10.05	2.28	-0.09	0.93	0.48
29.0	1594.5	1.043	0.587	52.9	4.17				0.11	20.21	79.68	10.13	2.35	-0.05	0.87	0.47
30.0	1584.1	1.036	0.732						0.00	20.06	79.94	10.10	2.30	-0.06	0.89	0.47
31.0	1589.9	1.040	0.690						0.00	26.84	73.16	9.68	2.35	-0.06	0.95	0.49
32.0	1487.6	0.973	0.117	79.4	6.08				0.08	35.00	64.92	9.36	2.65	0.06	0.83	0.45
33.0	1485.4	0.971	0.062	79.0	5.99											
34.0	1485.4	0.971	0.079													
35.0	1486.5	0.972	0.062	77.1	4.87											
36.0	1485.7	0.971	0.062													
37.0	1485.7	0.971	0.046	73.4	3.87											
38.0	1486.5	0.972	0.046													
39.0	1493.7	0.977	0.062	69.7	2.92											
40.0	1500.0	0.981	0.098													
41.0	1500.7	0.981	0.098	69.0	3.31											

Cruise: BARTLT 1301-82 Sample: 54-3 Date: 11/03/81
 Position: 13-43N;67-44W Depth: 5052m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
16.0						1.060	0.123									
17.0						1.120	0.122									
18.0						1.540	0.130									
19.0						0.707	0.064									
20.0						1.200	0.106									
21.0						0.408	0.053									
22.0						0.577	0.114									
23.0						0.578	0.116									
24.0						0.561	0.110									
25.0						0.669	0.101									
26.0						0.894	0.118									
27.0																
28.0																
29.0																
30.0																
31.0																
32.0																
33.0																
34.0																
35.0																
36.0																

Cruise: BARTLI 1301-82 Sample: 54-4 Date: 11/03/81
 Position: 13-43N; 67-44W Depth: 5052m
 Calculated for: 23.0 Deg-C 35.00 α/ω 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	-0.015													
0.0	1525.5	0.997	0.065	85.7	5.23				0.77	18.65	80.57	9.97	2.16	-0.13	1.06	0.51
1.0	1504.4	0.984	0.144													
2.0	1495.6	0.978	0.144	81.8	4.99				0.53	19.97	79.49	9.96	2.19	-0.12	1.03	0.51
3.0	1492.6	0.976	0.123													
4.0	1490.8	0.975	0.102	81.1	5.68				0.26	19.69	80.05	10.06	2.24	-0.07	0.93	0.48
5.0	1489.7	0.974	0.093													
6.0	1487.9	0.973	0.083	78.2	3.39				0.18	21.84	77.99	9.96	2.27	-0.06	0.92	0.48
7.0	1487.6	0.973	0.065													
8.0	1488.6	0.973	0.048	74.4	3.41				0.00	22.37	77.63	10.00	2.31	-0.01	0.85	0.46
9.0	1489.7	0.974	0.048													
10.0	1489.4	0.974	0.048	73.0	3.40				0.26	22.05	77.69	9.97	2.33	-0.03	0.89	0.47
11.0	1488.3	0.973	0.031													
12.0	1488.3	0.973	0.031	74.5	3.44				0.40	22.21	77.39	9.95	2.36	-0.05	0.89	0.47
13.0	1487.6	0.973	0.048													
14.0	1486.1	0.972	0.048	74.2	2.94				0.07	24.78	75.15	9.88	2.41	-0.07	0.88	0.47
15.0	1486.1	0.972	0.048													
16.0	1488.6	0.973	0.065	68.3	2.50				0.00	32.31	67.69	9.14	2.24	-0.12	0.95	0.49
17.0	1495.6	0.978	0.123													
18.0	1503.3	0.983	0.144	68.7	2.41				0.08	34.84	65.08	9.27	2.57	-0.03	0.88	0.47
19.0	1507.8	0.986	0.167													
20.0	1504.1	0.983	0.144	64.8	3.01				0.64	59.41	39.95	7.70	2.63	0.42	0.78	0.44
21.0	1502.6	0.982	0.156													
22.0	1511.9	0.989	0.370													
23.0	1535.5	1.004	0.696													
24.0	1547.6	1.012	0.675													
25.0	1560.6	1.020	0.675													
26.0	1561.4	1.021	0.409													
27.0	1585.0	1.036	0.056													
28.0	1579.6	1.033	0.102													

Cruise: BARTLT 1301-82 Date: 11/3/81
 Position: 13-43N;67-44W Depth: 5052m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 54-5

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.000													
0.0	1525.9	0.998	0.031					2.08								
1.0	1501.8	0.982	0.123													
2.0	1493.0	0.976	0.102													
3.0	1488.6	0.973	0.083					9.37								
4.0	1487.6	0.973	0.083					12.49								
5.0	1488.6	0.973	0.083					16.65								
6.0	1486.5	0.972	0.074					40.58								
7.0	1486.5	0.972	0.065					53.07								
8.0	1487.9	0.973	0.048					33.30								
9.0	1488.6	0.973	0.048					49.95								
10.0	1488.6	0.973	0.031					55.16								
11.0	1488.6	0.973	0.048					165.46								
12.0	1488.3	0.973	0.048					33.30								
13.0	1486.5	0.972	0.048													
14.0	1485.7	0.971	0.065													
15.0	1486.5	0.972	0.048													
16.0	1487.6	0.973	0.048													
17.0	1489.4	0.974	0.048													
18.0	1494.1	0.977	0.123													
19.0	1517.5	0.992	0.439													
20.0	1529.3	1.000	0.414													
21.0	1520.6	0.994	0.391													
22.0	1508.9	0.987	0.312													
23.0	1518.7	0.993	0.506													
24.0	1538.6	1.006	0.573													
25.0	1542.1	1.008	0.573													
26.0	1566.2	1.024	1.066													
27.0	1579.6	1.033	0.123													
28.0	1581.3	1.034	0.192													

Cruise: BARTLT 1301-82 Sample: 54-6 Date: 11/3/81
 Position: 13-43N; 67-44W Depth: 5052m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0							0.778	0.128								
1.0							0.635	0.124								
2.0							0.614	0.119								
3.0							0.591	0.116								
4.0							0.588	0.116								
5.0							0.630	0.118								
6.0							0.669	0.130								
7.0							0.605	0.120								
8.0							0.602	0.100								
9.0																
10.0																
11.0																
12.0																
13.0																
14.0																
15.0																
15.5																

Cruise: BARTLT 1301-82 Sample: 57-2 Date: 11/4/81
 Position: 13-42N;67-47W Depth: 5046m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0																
						0.797	0.166									

Cruise: BARTLT 1301-82 Sample: 67-1 Date: 11/18/81
 Position: 13-35N;65-52W Depth: 4749m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1536.1	1.004	0.000													
0.0	1534.2	1.003	0.031	87.0	11.08				4.57	12.07	83.36	10.33	2.57	-0.20	1.26	0.56
1.0	1522.7	0.996	0.112													
2.0	1505.5	0.984	0.102	85.2	10.64				0.72	15.29	83.99	10.34	2.26	-0.12	1.02	0.51
3.0	1500.7	0.981	0.093													
4.0	1499.2	0.980	0.083	84.8	10.50				0.75	16.60	82.65	10.24	2.31	-0.12	1.03	0.51
5.0	1501.4	0.982	0.083													
6.0	1500.7	0.981	0.083	82.7	10.94				0.76	15.53	83.71	10.22	2.20	-0.14	1.13	0.53
7.0	1499.2	0.980	0.083													
8.0	1498.1	0.980	0.083	79.7	9.59				0.39	14.67	84.94	10.25	2.12	-0.11	1.14	0.53
9.0	1497.0	0.979	0.074													
10.0	1495.9	0.978	0.065	78.9	10.06				0.22	13.39	86.38	10.41	2.13	-0.07	1.05	0.51
11.0	1494.5	0.977	0.065													
12.0	1494.5	0.977	0.065	78.1	8.33				0.32	13.99	85.70	10.27	2.06	-0.09	1.07	0.52
13.0	1495.9	0.978	0.123													
14.0	1495.2	0.978	0.102	78.0	7.37				0.12	12.62	87.26	10.39	2.06	-0.07	1.07	0.52
15.0	1493.7	0.977	0.065													
16.0	1493.7	0.977	0.048	78.2	8.13				0.19	13.05	86.76	10.40	2.08	-0.07	1.05	0.51
17.0	1493.7	0.977	0.048													
18.0	1493.7	0.977	0.065	78.1	8.69				0.12	12.85	87.03	10.30	1.98	-0.08	1.17	0.54
19.0	1498.1	0.980	0.093													
20.0	1495.2	0.978	0.074	76.4	10.36				0.09	12.88	87.03	10.11	1.84	-0.13	1.36	0.58
21.0	1495.2	0.978	0.031													
22.0	1495.2	0.978	0.031	76.9	11.83				0.22	13.01	86.77	10.24	2.00	-0.12	1.25	0.56
23.0	1495.2	0.978	0.031													
24.0	1495.6	0.978	0.031	77.5	12.74				0.88	13.15	85.97	10.27	2.09	-0.13	1.16	0.54
25.0	1495.6	0.978	0.048													
26.0	1494.5	0.977	0.048	77.5	15.39				1.03	14.04	84.93	10.14	2.06	-0.17	1.28	0.56
27.0	1494.5	0.977	0.048													
28.0	1494.5	0.977	0.048	76.9	15.10				0.33	12.71	86.96	10.25	1.98	-0.13	1.26	0.56
29.0	1494.5	0.977	0.065													
30.0	1495.9	0.978	0.102	76.7	16.37				0.63	12.75	86.62	10.27	1.99	-0.12	1.31	0.57
31.0	1496.7	0.979	0.102													
32.0	1494.1	0.977	0.312	76.6	16.57				0.38	10.73	88.89	10.39	1.92	-0.09	1.22	0.55
33.0	1495.9	0.978	0.278													
34.0				76.9	18.19				0.91	12.70	86.39	10.21	2.00	-0.16	1.34	0.57
35.0																
36.0				76.3	18.43				0.32	12.27	87.41	10.14	1.86	-0.17	1.53	0.61
37.0																

Cruise: BARTLT 1301-82 Sample: 67-4 Date: 11/18/81
 Position: 13-35N;65-52W Depth: 4749m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
19.0	1495.6	0.978	0.102					29.73								
20.0	1493.7	0.977	0.048													
21.0	1493.7	0.977	0.031													
22.0	1495.9	0.978	0.048													
23.0	1497.0	0.979	0.065					51.73								
24.0	1498.1	0.980	0.065					48.17								
25.0	1497.0	0.979	0.065													
26.0	1495.9	0.978	0.065													
27.0	1496.3	0.978	0.065													
28.0	1495.6	0.978	0.065													
29.0	1495.6	0.978	0.065					52.92								
30.0	1497.4	0.979	0.065													

Cruise: BARTLT 1301-82 Sample: 67-5 Date: 11/18/81
 Position: 13-35N; 65-52W Depth: 4749m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.8	1.002	0.000													
0.0	1512.4	0.989	0.102													
1.0	1506.0	0.985	0.102					2.97								
2.0	1502.7	0.983	0.083													
3.0	1500.5	0.981	0.063													
4.0	1498.7	0.980	0.093													
5.0	1498.7	0.980	0.083					11.30								
6.0	1497.2	0.979	0.065					37.46								
7.0	1495.7	0.978	0.048													
8.0	1493.9	0.977	0.048													
9.0	1493.6	0.977	0.048													
10.0	1493.2	0.976	0.048					46.38								
11.0	1495.0	0.978	0.065													
12.0	1493.6	0.977	0.031					59.47								
13.0	1493.2	0.976	0.031													
14.0	1493.2	0.976	0.048													
15.0	1493.6	0.977	0.048													
16.0	1493.6	0.977	0.065					75.52								
17.0	1493.2	0.976	0.065													
18.0	1493.9	0.977	0.031					92.77								
19.0	1494.5	0.977	0.031													
20.0	1494.5	0.977	0.031													
21.0	1495.2	0.978	0.048													
22.0	1493.4	0.976	0.048													
23.0	1494.5	0.977	0.065					44.00								
24.0	1494.5	0.977	0.065					48.17								
25.0	1495.2	0.978	0.048													
26.0	1495.6	0.978	0.065													
27.0	1495.6	0.978	0.065													
28.0	1495.6	0.978	0.065					42.81								
29.0	1495.6	0.978	0.065					48.17								
30.0																
31.0																

Cruise: BARTLT 1301-82 Sample: 67-6 Date: 11/18/81
 Position: 13-35N;65-52W Depth: 4749m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
19.0	1502.9	0.983	0.558					55.30								
20.0	1495.2	0.978	0.065													
21.0	1495.2	0.978	0.065													
22.0	1495.2	0.978	0.065													
23.0	1496.3	0.978	0.065					101.09								
24.0	1497.4	0.979	0.065					81.47								
25.0	1496.3	0.978	0.065													
26.0	1496.3	0.978	0.065													
27.0	1494.8	0.977	0.048													
28.0								122.50								
29.0																
30.0																
31.0								65.41								

Cruise: BARTLT 1301-82 Sample: 67-8 Date: 11/18/81
 Position: 13-35N;65-52W Depth: 4749m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.6	1.000	0.000													
0.0	1521.3	0.995	0.065													
1.0	1509.6	0.987	0.112					3.57								
2.0	1498.1	0.980	0.083													
3.0	1494.5	0.977	0.074													
4.0	1493.0	0.976	0.074													
5.0	1492.3	0.976	0.065					13.08								
6.0	1491.9	0.976	0.065					19.62								
7.0	1489.4	0.974	0.065													
8.0	1489.7	0.974	0.074													
9.0	1490.5	0.975	0.065													
10.0	1488.3	0.973	0.048					38.65								
11.0	1487.9	0.973	0.065													
12.0	1487.9	0.973	0.065					42.81								
13.0	1487.9	0.973	0.048													
14.0	1487.2	0.972	0.048													
15.0	1487.2	0.972	0.048													
16.0	1487.9	0.973	0.065													
17.0	1489.4	0.974	0.065					78.49								
18.0	1489.0	0.974	0.048													
19.0	1487.6	0.973	0.031					57.09								
20.0	1488.6	0.973	0.031													
21.0	1487.9	0.973	0.031													
22.0	1488.3	0.973	0.031													
23.0	1488.3	0.973	0.031					51.14								
24.0	1484.3	0.971	0.031					41.03								
25.0	1487.6	0.973	0.031													
26.0	1487.6	0.973	0.048													
27.0	1487.2	0.972	0.048													
28.0	1488.3	0.973	0.065					44.00								
29.0	1488.6	0.973	0.083													
30.0								66.60								
31.0																

Cruise: BARTLT 1301-82 Sample: 67-9 Date: 11/18/81
 Position: 13-35N;65-52W Depth: 4749m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 KHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0																
						0.809	0.177									

Cruise: BARTLT 1301-82
 Position: 13-34N;65-45W
 Calculated for: 23.0 Deg-C

Sample: 68-1
 35.00 o/oo

Date: 11/18/81
 Depth: 4447m
 0 m 400 kHz

Depth (cm)	Vp m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.6	0.999	0.015													
0.0	1522.5	0.995	0.117													
1.0	1496.3	0.978	0.098					3.57								
2.0	1493.0	0.976	0.098													
3.0	1492.3	0.976	0.088													
4.0	1491.2	0.975	0.088													
5.0	1490.5	0.975	0.088					17.24								
6.0	1488.3	0.973	0.079					36.27								
7.0	1487.6	0.973	0.079													
8.0	1487.2	0.972	0.079													
9.0	1487.2	0.972	0.079													
10.0	1486.8	0.972	0.079					55.30								
11.0	1486.8	0.972	0.062													
12.0	1487.6	0.973	0.062					104.06								
13.0	1488.6	0.973	0.079													
14.0	1489.4	0.974	0.079													
15.0	1491.2	0.975	0.079													
16.0	1490.1	0.974	0.079													
17.0	1489.7	0.974	0.079					80.87								
18.0	1489.0	0.974	0.079					64.22								
19.0	1488.3	0.973	0.062													
20.0	1488.3	0.973	0.079													
21.0	1489.0	0.974	0.079													
22.0	1489.7	0.974	0.062													
23.0	1488.3	0.973	0.062													
24.0	1488.3	0.973	0.079					97.52								
25.0	1491.9	0.976	0.079					115.36								
26.0	1491.9	0.976	0.079													
27.0	1490.5	0.975	0.079													
28.0	1489.7	0.974	0.098					82.66								
29.0																

Cruise: BARTLT 1301-82 Date: 11/18/81
 Position: 13-34N;65-45W Depth: 4447m
 Calculated for: 23.0 Deg-C 35.00 c/o 0 m 400 kHz

Sample: 68-3

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1501.8	0.982	0.093	86.9	17.63				7.47	10.32	82.21	10.11	2.80	-0.32	1.89	0.65
2.0	1495.6	0.978	0.074						4.76	9.94	85.30	10.20	2.28	-0.27	1.90	0.65
3.0	1493.7	0.977	0.074	83.9	16.53											
4.0	1493.0	0.976	0.083						4.46	10.00	85.54	10.32	2.27	-0.20	1.59	0.61
5.0	1492.3	0.976	0.074	82.5	15.60				2.03	10.49	87.48	10.36	2.01	-0.14	1.58	0.61
6.0	1491.9	0.976	0.065						1.23	9.29	89.47	10.39	1.82	-0.14	1.93	0.66
7.0	1489.4	0.974	0.065	81.1	14.19				0.89	9.34	89.76	10.45	1.85	-0.10	1.56	0.61
8.0	1489.4	0.974	0.065	80.1	13.46				1.75	8.57	89.68	10.37	1.82	-0.14	1.64	0.62
9.0	1488.6	0.973	0.065						2.49	10.53	86.98	10.25	2.05	-0.22	1.87	0.65
10.0	1488.6	0.973	0.048	77.5	16.41				1.78	9.67	88.56	10.41	1.95	-0.13	1.59	0.61
11.0	1488.6	0.973	0.031	77.1	17.66				0.88	9.80	89.31	10.47	1.90	-0.10	1.56	0.61
12.0	1488.6	0.973	0.048	76.3	16.34				0.44	8.44	91.11	10.53	1.81	-0.04	1.49	0.60
13.0	1488.6	0.973	0.048	76.3	19.73				0.90	8.57	90.54	10.48	1.81	-0.06	1.60	0.61
14.0	1490.1	0.974	0.065	76.0	19.37				0.66	9.22	90.12	10.55	1.87	-0.06	1.42	0.59
15.0	1491.6	0.975	0.083						0.49	9.64	89.87	10.45	1.83	-0.07	1.47	0.60
16.0	1491.6	0.975	0.083	75.7	19.05				0.53	9.59	89.88	10.34	1.75	-0.12	1.56	0.61
17.0	1490.8	0.975	0.065													
18.0	1490.8	0.975	0.065													
19.0	1490.8	0.975	0.048													
20.0	1491.2	0.975	0.048													
21.0	1490.5	0.975	0.048													
22.0	1490.8	0.975	0.048													
23.0	1489.0	0.974	0.065													
24.0	1489.4	0.974	0.048													
25.0	1489.4	0.974	0.048													
26.0																
27.0																
28.0																
29.0																

Cruise: BARTLT 1301-82 Sample: 68-4 Date: 11/18/81
 Position: 13-34N;65-45W Depth: 4447m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001	0.000													
0.0	1527.9	0.999	0.031													
1.0	1506.8	0.985	0.102					3.57								
2.0	1499.7	0.981	0.093													
3.0	1494.9	0.977	0.083													
4.0	1492.0	0.976	0.074													
5.0	1492.0	0.976	0.083					14.87								
6.0	1492.0	0.976	0.083													
7.0	1491.3	0.975	0.083					28.54								
8.0	1490.6	0.975	0.065													
9.0	1489.1	0.974	0.065													
10.0	1487.7	0.973	0.065													
11.0	1488.4	0.973	0.065					33.90								
12.0	1487.3	0.972	0.065													
13.0	1488.8	0.973	0.065					54.11								
14.0	1488.4	0.973	0.048													
15.0	1488.4	0.973	0.048													
16.0	1491.3	0.975	0.065													
17.0	1491.7	0.975	0.065					95.74								
18.0	1489.8	0.974	0.065													
19.0	1489.8	0.974	0.065					57.09								
20.0	1489.8	0.974	0.065													
21.0	1489.8	0.974	0.065					95.14								
22.0	1489.8	0.974	0.065													
23.0	1489.8	0.974	0.065													
24.0	1490.9	0.975	0.065													
25.0	1490.9	0.975	0.065													
26.0	1490.9	0.975	0.065					113.58								

Cruise: BARTLT 1301-82 Sample: 68-6 Date: 11/18/81
 Position: 13-34N;65-45W Depth: 4447m
 Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.0	1.001	0.000													
0.0	1524.9	0.997	0.102													
1.0	1502.0	0.982	0.093					2.97								
2.0	1499.1	0.980	0.083													
3.0	1496.5	0.978	0.083													
4.0	1494.3	0.977	0.083													
5.0	1493.2	0.976	0.074					11.89								
6.0	1492.8	0.976	0.074													
7.0	1492.8	0.976	0.083					33.30								
8.0	1490.3	0.974	0.065													
9.0	1489.2	0.974	0.048													
10.0	1489.6	0.974	0.048					46.38								
11.0	1490.3	0.974	0.048													
12.0	1490.3	0.974	0.048					73.74								
13.0	1490.3	0.974	0.065													
14.0	1489.2	0.974	0.065													
15.0	1492.8	0.976	0.065													
16.0	1493.9	0.977	0.065													
17.0	1492.1	0.976	0.065					68.38								
18.0	1490.3	0.974	0.065					67.20								
19.0	1490.6	0.975	0.065													
20.0	1491.4	0.975	0.065													
21.0	1491.0	0.975	0.065													
22.0	1491.4	0.975	0.048													
23.0	1492.5	0.976	0.065					105.85								
24.0	1491.7	0.975	0.083													
25.0	1491.7	0.975	0.065					76.12								
26.0	1493.2	0.976	0.083													
27.0	1494.7	0.977	0.083													
28.0	1495.0	0.978	0.294													
29.0	1493.2	0.976	0.370					70.76								

Cruise: BARTLA 1301-82 Sample: 69-7 Date: 11/18/81
 Position: 13-34N; 65-28W Depth: 4188m
 Calculated for: 23.0 Deg-C 35.00 q/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.4	1.001	-0.015													
0.0	1529.6	1.000	-0.015													
1.0	1513.3	0.989	0.140					2.38								
2.0	1503.2	0.983	0.140													
3.0	1503.2	0.983	0.097													
4.0	1494.0	0.977	0.097													
5.0	1492.6	0.976	0.097					9.51								
6.0	1492.6	0.976	0.087													
7.0	1491.8	0.975	0.078					44.00								
8.0	1490.4	0.975	0.068													
9.0	1490.0	0.974	0.050													
10.0	1489.7	0.974	0.059													
11.0	1489.7	0.974	0.050					63.63								
12.0	1489.7	0.974	0.068													
13.0	1489.6	0.974	0.050													
14.0	1489.7	0.974	0.050													
15.0	1492.6	0.976	0.050					85.63								
16.0	1493.7	0.977	0.078													
17.0	1493.3	0.976	0.078					115.36								
18.0	1493.3	0.976	0.068													
19.0	1493.3	0.976	0.078													
20.0	1491.5	0.975	0.068													
21.0								107.04								
22.0																
23.0																
24.0																
25.0								88.01								

Cruise: BARTLT 1301-82 Sample: 69-8 Date: 11/18/81
 Position: 13-34N;65-28W Depth: 4188m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001	-0.015													
0.0	1521.8	0.995	0.093													
1.0	1510.1	0.987	0.144					1.78								
2.0	1502.3	0.982	0.144													
3.0	1499.7	0.981	0.133													
4.0	1496.0	0.978	0.123					5.95								
5.0	1494.9	0.977	0.112													
6.0	1493.5	0.977	0.112					10.71								
7.0	1492.0	0.976	0.102													
8.0	1490.6	0.975	0.102													
9.0	1489.5	0.974	0.074													
10.0	1488.4	0.973	0.065					45.19								
11.0	1488.4	0.973	0.048													
12.0	1489.1	0.974	0.065					58.28								
13.0	1489.8	0.974	0.065													
14.0	1489.1	0.974	0.048													
15.0	1489.1	0.974	0.065													
16.0	1490.6	0.975	0.123													
17.0	1498.2	0.980	0.409					68.38								
18.0	1505.3	0.984	0.752					85.03								
19.0	1427.2	0.933	1.458													
20.0	1427.2	0.933	1.560													
21.0	1427.2	0.933	1.704													
22.0	1377.3	0.901	1.951					87.41								
23.0	1453.7	0.950	1.378													
24.0	1510.9	0.988	0.558					96.33								
25.0																

Cruise: BARTLE 1301-82 Date: 11/18/81
 Position: 13-34N;65-28W Depth: 4188m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 69-9

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.000													
0.0	1522.9	0.996	0.112	87.2	25.76				17.55	9.57	72.87	8.58	4.06	-0.50	1.38	0.58
1.0	1502.3	0.982	0.144						14.10	10.30	75.60	9.34	3.40	-0.45	1.52	0.60
2.0	1497.8	0.979	0.133	85.3	24.36				11.62	10.73	77.65	9.68	3.15	-0.39	1.64	0.62
3.0	1496.4	0.978	0.123						6.37	11.21	82.42	10.14	2.72	-0.28	1.58	0.61
4.0	1494.2	0.977	0.112	83.4	22.72				3.04	12.81	84.15	10.33	2.33	-0.12	1.07	0.52
5.0	1494.2	0.977	0.112						3.95	14.77	81.29	10.06	2.42	-0.23	1.22	0.55
6.0	1493.1	0.976	0.112	81.5	19.11				3.67	11.90	84.44	10.14	2.18	-0.16	1.36	0.58
7.0	1490.5	0.975	0.093						2.00	12.37	85.63	10.25	2.13	-0.09	1.24	0.55
8.0	1490.2	0.974	0.074	79.9	14.49				1.36	11.05	87.59	10.28	1.95	-0.14	1.31	0.57
9.0	1488.7	0.973	0.065						1.47	11.10	87.43	10.29	2.02	-0.13	1.32	0.57
10.0	1488.4	0.973	0.065	78.1	18.03				1.93	11.44	86.63	10.25	2.04	-0.12	1.36	0.58
11.0	1489.4	0.974	0.083						3.52	13.41	83.07	10.09	2.28	-0.20	1.29	0.56
12.0	1490.2	0.974	0.102	77.3	18.12				3.79	11.92	84.29	10.22	2.29	-0.16	1.33	0.57
13.0	1490.2	0.974	0.102						4.93	12.17	82.91	10.14	2.54	-0.23	1.45	0.59
14.0	1489.8	0.974	0.083	76.9	18.60											
15.0	1488.7	0.973	0.083													
16.0	1489.4	0.974	0.074	76.1	18.04											
17.0	1490.5	0.975	0.083													
18.0	1490.9	0.975	0.083	75.7	17.35											
19.0	1490.9	0.975	0.083													
20.0	1490.9	0.975	0.083	76.0	18.76											
21.0	1490.2	0.974	0.083													
22.0	1490.2	0.974	0.083	75.7	20.17											
23.0	1490.2	0.974	0.112													
24.0	1491.6	0.975	0.144	76.1	21.81											
25.0																
26.0																
27.0				75.9	23.35											

Cruise: BARTLT 1301-82 Sample: 69-10 Date: 11/18/81
 Position: 13-34N; 65-28W Depth: 4188m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.4	1.001	0.000													
0.0	1528.9	1.000	0.031					3.57								
1.0	1504.8	0.984	0.133													
2.0	1498.9	0.980	0.123													
3.0	1496.7	0.979	0.123													
4.0	1494.5	0.977	0.112													
5.0	1494.1	0.977	0.112					7.73								
6.0	1491.5	0.975	0.093													
7.0	1491.9	0.976	0.083					29.14								
8.0	1490.5	0.975	0.083													
9.0	1490.5	0.975	0.074													
10.0	1489.7	0.974	0.083					49.95								
11.0	1489.4	0.974	0.083													
12.0	1489.7	0.974	0.093					64.82								
13.0	1491.5	0.975	0.123													
14.0	1490.5	0.975	0.093													
15.0	1490.1	0.974	0.102													
16.0	1492.3	0.976	0.102													
17.0	1491.5	0.975	0.102					104.06								
18.0	1491.9	0.976	0.102													
19.0	1493.4	0.976	0.112					89.79								
20.0	1493.0	0.976	0.133													

Cruise: BARTLT 1301-82 Sample: 69-16 Date: 11/18/81
 Position: 13-34N;65-28W Depth: 4188m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.618	0.138									

Cruise: BARTLT 1301-82 Sample: 70-3 Date: 11/19/81
 Position: 13-33N;65-24W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.555	0.136									

Cruise: BARTLI 1301-82 Sample: 70-6 Date: 11/19/81
 Position: 13-33N; 65-25W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1523.3	0.996	0.000													
0.0	1501.5	0.982	0.152													
1.0	1491.9	0.975	0.129													
2.0	1489.0	0.974	0.140													
3.0	1486.8	0.972	0.140													
4.0	1485.0	0.971	0.129													
5.0	1485.0	0.971	0.118													
6.0	1484.3	0.970	0.097													
7.0	1484.3	0.970	0.097													
8.0	1484.3	0.970	0.108													
9.0	1483.9	0.970	0.129													
11.0	1494.1	0.977	0.399													
12.0	1483.9	0.970	0.118													
13.0	1483.5	0.970	0.152													
14.0	1486.4	0.972	0.279													
15.0	1492.3	0.976	0.558													
16.0	1500.4	0.981	0.529													
17.0	1500.4	0.981	0.467													
18.0	1505.9	0.985	0.750													
19.0	1505.9	0.985	1.196													
20.0	1497.4	0.979	0.455													
21.0	1495.6	0.978	0.334													
22.0	1492.3	0.976	0.296													
23.0	1489.3	0.974	0.217													
24.0	1491.9	0.975	0.334													

Cruise: BARTLT 1301-82 Sample: 70-9 Date: 11/19/81
 Position: 13-33N;65-25W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.1	0.999	-0.015													
0.0	1515.7	0.991	0.068													
1.0	1496.7	0.979	0.059					5.95								
2.0	1492.6	0.976	0.129													
3.0	1490.4	0.975	0.129													
4.0	1490.1	0.974	0.118													
5.0	1490.1	0.974	0.118					14.27								
6.0	1490.1	0.974	0.108					22.60								
7.0	1489.3	0.974	0.097													
8.0	1489.3	0.974	0.097													
9.0	1491.5	0.975	0.118													
10.0	1491.5	0.975	0.129													
11.0	1489.0	0.974	0.108					64.82								
12.0	1489.7	0.974	0.118					79.68								
13.0	1489.3	0.974	0.097													
14.0	1487.5	0.973	0.078													
15.0	1487.5	0.973	0.068													
16.0	1487.5	0.973	0.078													
17.0	1488.6	0.973	0.118					145.69								
18.0	1492.6	0.976	0.118					83.25								
19.0	1492.6	0.976	0.129													
20.0	1491.5	0.975	0.108													
21.0	1490.1	0.974	0.118													
22.0	1490.1	0.974	0.118													
23.0	1490.4	0.975	0.203													
24.0																

Cruise: BARTLE 1301-82 Date: 11/19/81
 Position: 13-33N; 65-25W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 70-10

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1526.4	0.998	0.000													
0.0	1507.4	0.986	0.177													
1.0	1495.9	0.978	0.164					5.35								
2.0	1491.9	0.975	0.152													
3.0	1490.8	0.975	0.152													
4.0	1489.7	0.974	0.140													
5.0	1488.6	0.973	0.140					14.27								
6.0	1488.2	0.973	0.118													
7.0	1487.9	0.973	0.097					11.89								
8.0	1487.9	0.973	0.087													
9.0	1487.9	0.973	0.087													
10.0	1487.2	0.972	0.087													
11.0	1486.8	0.972	0.087					17.24								
12.0	1489.0	0.974	0.129													
13.0	1491.2	0.975	0.190					15.46								
14.0	1491.2	0.975	0.177													
15.0	1487.9	0.973	0.140													
16.0	1487.9	0.973	0.108													
17.0	1486.4	0.972	0.087					95.14								
18.0	1486.4	0.972	0.068													
19.0	1486.8	0.972	0.059					126.07								
20.0	1490.4	0.975	0.108													
21.0	1490.4	0.975	0.097													
22.0	1490.1	0.974	0.108													
23.0	1489.3	0.974	0.129													
24.0	1489.3	0.974	0.247					78.49								
25.0	1489.0	0.974	0.232													

Cruise: BARTLT 1301-82 Sample: 70-11 Date: 11/19/81
 Position: 13-33N;65-25W Depth: 3937m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1525.2	0.997	0.000													
0.0	1514.2	0.990	0.218	85.2	32.30				33.00	7.50	59.00	7.52	4.55	-0.46	0.59	0.37
1.0	1495.9	0.978	0.156						14.88	10.04	75.09	9.13	3.49	-0.49	1.64	0.62
2.0	1491.9	0.975	0.133	83.0	26.10				10.19	11.34	78.47	9.73	2.99	-0.39	1.83	0.65
3.0	1491.2	0.975	0.133						6.25	12.50	81.25	10.03	2.76	-0.29	1.54	0.61
4.0	1490.1	0.974	0.133	81.5	22.06				5.98	14.27	79.75	9.90	2.73	-0.31	1.57	0.61
5.0	1489.0	0.974	0.112	80.8	19.67				4.26	14.25	81.49	10.08	2.50	-0.21	1.24	0.55
6.0	1487.9	0.973	0.102	81.5	22.18				2.99	12.40	84.61	10.29	2.25	-0.13	1.21	0.55
7.0	1487.2	0.972	0.093						4.19	11.48	84.33	10.17	2.29	-0.20	1.49	0.60
8.0	1487.2	0.972	0.093						2.57	11.33	86.10	10.12	2.00	-0.18	1.54	0.61
9.0	1487.5	0.973	0.102	78.1	20.78				2.97	11.97	85.06	10.15	2.13	-0.15	1.35	0.57
10.0	1486.8	0.972	0.102	77.5	20.80				4.11	12.45	83.44	10.14	2.34	-0.20	1.39	0.58
11.0	1486.8	0.972	0.112	76.0	19.38				3.44	12.46	84.10	10.22	2.28	-0.16	1.27	0.56
12.0	1487.2	0.972	0.083						3.27	14.16	82.57	10.04	2.31	-0.20	1.31	0.57
13.0	1487.9	0.973	0.083	77.5	20.80											
14.0	1487.5	0.973	0.093	76.7	21.00											
15.0	1487.5	0.973	0.093													
16.0	1497.9	0.973	0.083	76.0	19.38											
17.0	1492.3	0.976	0.112													
18.0	1491.5	0.975	0.102	76.7	21.50											
19.0	1490.4	0.975	0.102													
20.0	1488.6	0.973	0.102	77.5	22.24											
21.0	1488.2	0.973	0.112													
22.0				76.8	21.92											
23.0																
24.0				75.8	22.21											
25.0																

Cruise: BARTUT 1301-82 Sample: 71-7 Date: 11/19/81
 Position: 13-31N;65-10W Depth: 3775m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1524.4	0.997	0.000													
0.0	1512.7	0.989	0.156													
1.0	1494.5	0.977	0.218					7.14								
2.0	1491.5	0.975	0.232													
3.0	1489.0	0.974	0.167													
4.0	1487.2	0.972	0.167													
5.0	1487.2	0.972	0.156					17.84								
6.0	1486.1	0.972	0.144													
7.0	1486.1	0.972	0.144					19.62								
8.0	1486.1	0.972	0.144													
9.0	1486.4	0.972	0.133													
10.0	1485.3	0.971	0.144													
11.0	1483.5	0.970	0.205					52.33								
12.0	1482.4	0.969	0.167													
13.0	1482.8	0.970	0.133					90.98								
14.0	1483.9	0.970	0.133													
15.0	1484.3	0.970	0.133													
16.0	1487.5	0.973	0.144													
17.0	1483.9	0.970	0.133					125.69								
18.0	1485.3	0.971	0.144													
19.0	1488.2	0.973	0.167					79.09								
20.0	1487.2	0.972	0.167													
21.0	1486.8	0.972	0.192													
22.0	1483.9	0.970	0.144													
23.0	1487.9	0.973	0.205					90.98								

Cruise: BARTLA 1301-82 Date: 11/19/81
 Position: 13-31N;65-10W Depth: 3775m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 71-8

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1522.9	0.996	0.015													
0.0	1516.8	0.992	0.205					5.95								
1.0	1495.2	0.978	0.218													
2.0	1490.4	0.975	0.192													
3.0	1488.2	0.973	0.179													
4.0	1487.2	0.972	0.167					13.68								
5.0	1487.2	0.972	0.167													
6.0	1485.3	0.971	0.144					17.84								
7.0	1485.3	0.971	0.133													
8.0	1486.4	0.972	0.144													
9.0	1484.6	0.971	0.133													
10.0	1483.9	0.970	0.123					70.41								
11.0	1484.6	0.971	0.144													
12.0	1484.3	0.970	0.133					96.93								
13.0	1483.2	0.970	0.102													
14.0	1483.2	0.970	0.093													
15.0	1483.2	0.970	0.093													
16.0	1483.5	0.970	0.102													
17.0	1485.0	0.971	0.102					118.93								
18.0	1486.4	0.972	0.144													
19.0	1484.3	0.970	0.144					165.31								
20.0	1490.1	0.974	0.167													
21.0	1489.7	0.974	0.192													
22.0	1485.0	0.971	0.144					96.93								
23.0	1483.2	0.970	0.133													
24.0	1482.8	0.970	0.123													
25.0	1485.3	0.971	0.192													

Cruise: BARTLT 1301-82 Sample: 71-9 Date: 11/19/81
 Position: 13-31N; 65-10W Depth: 3775m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1523.7	0.996	0.015													
0.0	1520.6	0.994	0.102					8.32								
1.0	1494.8	0.977	0.083													
2.0	1490.8	0.975	0.167													
3.0	1488.2	0.973	0.167													
4.0	1487.5	0.973	0.167					23.79								
5.0	1486.1	0.972	0.156													
6.0	1485.0	0.971	0.133					26.76								
7.0	1485.3	0.971	0.133													
8.0	1485.0	0.971	0.123													
9.0	1485.0	0.971	0.112													
10.0	1485.0	0.971	0.123					54.11								
11.0	1485.0	0.971	0.123					98.71								
12.0	1483.9	0.970	0.102													
13.0	1482.4	0.969	0.093													
14.0	1482.4	0.969	0.102													
15.0	1482.4	0.969	0.102													
16.0	1484.3	0.970	0.093					127.26								
17.0	1489.7	0.974	0.144													
18.0	1487.5	0.973	0.144					84.44								
19.0	1487.5	0.973	0.156													
20.0	1485.0	0.971	0.133													
21.0	1483.9	0.970	0.133													
22.0	1485.0	0.971	0.247					93.36								
23.0	1486.1	0.972	0.349													
24.0	1486.1	0.972	0.370													

Cruise: BARTL1 1301-82 Sample: 71-10 Date: 11/19/81
 Position: 13-31N;65-10W Depth: 3775m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1523.7	0.996	0.015													
0.0	1521.8	0.995	0.065	85.3	26.81				15.09	11.37	73.54	9.09	3.58	-0.48	1.42	0.59
1.0	1501.8	0.982	0.192						15.40	11.69	72.71	8.90	3.71	-0.48	1.35	0.58
2.0	1498.5	0.980	0.247	83.5	28.07				14.73	11.32	73.94	9.19	3.57	-0.45	1.42	0.59
3.0	1496.7	0.979	0.294						8.72	12.18	79.10	9.83	2.98	-0.37	1.62	0.62
4.0	1489.3	0.974	0.232	82.1	26.51				6.21	12.72	81.07	10.02	2.73	-0.31	1.63	0.62
5.0	1487.9	0.973	0.218						4.81	14.70	80.49	9.90	2.54	-0.30	1.48	0.60
6.0	1487.2	0.972	0.218	79.5	22.23				3.72	11.65	84.63	10.09	2.18	-0.24	1.75	0.64
7.0	1485.3	0.971	0.167						2.41	11.96	85.62	10.13	2.02	-0.20	1.64	0.62
8.0	1485.0	0.971	0.144	78.2	23.32				4.66	14.20	81.13	9.93	2.50	-0.28	1.58	0.61
9.0	1485.0	0.971	0.156						2.09	13.48	84.43	10.01	2.05	-0.24	1.57	0.61
10.0	1486.6	0.972	0.294	77.0	21.60				6.58	13.38	80.05	9.81	2.77	-0.36	1.70	0.63
11.0	1486.4	0.972	0.247													
12.0	1485.0	0.971	0.167	76.9	21.28											
13.0	1486.1	0.972	0.179													
14.0	1489.0	0.974	0.232	76.8	21.52											
15.0	1491.5	0.975	0.493													
16.0	1494.1	0.977	0.506	76.5	21.80											
17.0	1502.2	0.982	0.740													
18.0	1492.3	0.976	0.409	76.0	19.62											
19.0	1454.4	0.951	0.192													
20.0																
21.0				75.4	22.93											

Cruise: BARTLT 1301-82 Date: 11/20/81
 Position: 13-33N;64-42W Depth: 3542m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attr. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1522.9	0.996	0.000													
0.0	1507.8	0.986	0.278													
1.0	1491.9	0.976	0.192					10.11								
2.0	1488.6	0.973	0.156													
3.0	1487.2	0.972	0.167													
4.0	1486.6	0.972	0.156													
5.0	1486.6	0.972	0.144					24.98								
6.0	1487.9	0.973	0.144													
7.0	1487.9	0.973	0.167					37.48								
8.0	1486.8	0.972	0.156													
9.0	1488.6	0.973	0.156													
10.0	1490.1	0.974	0.218					38.06								
11.0	1491.2	0.975	0.391													
12.0	1490.5	0.975	0.205													
13.0	1491.9	0.976	0.247					106.44								
14.0	1497.1	0.979	0.330													
15.0	1506.3	0.985	0.409													
16.0	1513.8	0.990	1.344													
17.0	1530.5	1.001	1.189					137.36								
18.0	1530.5	1.001	1.344													
19.0	1529.4	1.000	1.131					106.44								
20.0	1529.4	1.000	1.344													
21.0	1529.4	1.000	1.560													
22.0	1518.7	0.993	0.942					86.22								
23.0	1509.3	0.987	0.820													
24.0	1501.1	0.982	0.471													
25.0	1498.5	0.980	0.349					93.36								
26.0	1496.7	0.979	0.312													
27.0	1497.8	0.979	0.312													
28.0	1504.4	0.984	0.205													
29.0								63.63								

Cruise: 6AKTL1 1301-62 Sample: 73-17 Date: 11/20/81
 Position: 13-33N;64-42W Depth: 3542m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.650	0.129									

Cruise: BARTL1 1301-82
 Position: 13-33N;64-42W
 Calculated for: 23.0 Deg-C

Sample: 73-18
 35.00 o/oo

Date: 11/20/81
 Depth: 3542m
 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.585	0.096									
2.0						0.510	0.101									
3.0						0.507	0.106									
4.0						0.495	0.106									
5.0						0.585	0.114									
6.0						0.663	0.118									
7.0						0.661	0.128									
8.0						0.731	0.130									
9.0						0.673	0.124									
10.0						0.639	0.114									
11.0						0.580	0.106									
12.0						0.455	0.092									
13.0						0.503	0.090									
14.0						0.457	0.088									
15.0						0.450	0.086									
16.0						0.449	0.089									
17.0																
18.0																
19.0																
20.0																
21.0																
22.0																
23.0																
24.0																
25.0																
26.0																
27.0																
28.0																
29.0																
30.0																
31.0																

Cruise: BARTLT 1301-82 Sample: 74-1 Date: 11/21/81
 Position: 13-32N;64-44W Depth: 3503m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.015													
0.0	1507.4	0.986	0.167													
1.0	1499.2	0.980	0.179					5.35								
2.0	1495.9	0.978	0.179													
3.0	1494.8	0.977	0.218													
4.0	1492.3	0.976	0.156													
5.0	1491.6	0.975	0.144					20.22								
6.0	1491.6	0.975	0.144					29.14								
7.0	1491.6	0.975	0.167													
8.0	1491.6	0.975	0.167													
9.0	1491.2	0.975	0.156													
10.0	1491.6	0.975	0.179					50.55								
11.0	1490.5	0.975	0.179													
12.0	1490.5	0.975	0.156					67.79								
13.0	1488.6	0.973	0.133													
14.0	1487.9	0.973	0.102													
15.0	1488.6	0.973	0.102													
16.0	1490.1	0.974	0.112													
17.0	1494.8	0.977	0.278					133.80								
18.0	1500.0	0.981	0.419					81.47								
19.0	1500.0	0.981	0.294													
20.0	1498.5	0.980	0.278													
21.0	1498.5	0.980	0.312													
22.0	1497.8	0.979	0.312													
23.0	1501.5	0.982	0.518					79.68								
24.0	1504.8	0.984	0.493													
25.0	1503.3	0.983	0.638					77.90								
26.0	1507.0	0.985	0.964													
27.0	1507.0	0.985	0.696													
28.0	1501.8	0.982	0.544													
29.0	1500.7	0.981	0.518					75.52								

Cruise: BARTL1 1301-82 Date: 11/21/81
 Position: 13-32N; 64-44W Depth: 3503m
 Calculated for: 23.0 Leg-C 35.00 c/ooc 0 m 400 kHz

Sample: 74-2

Depth (cm)	Vp n/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.0	0.979	0.232					6.54								
2.0	1493.4	0.976	0.218													
3.0	1492.6	0.976	0.192													
4.0	1492.6	0.976	0.192					24.38								
5.0	1494.1	0.977	0.205													
6.0	1491.6	0.975	0.192					35.68								
7.0	1491.2	0.975	0.192													
8.0	1493.7	0.977	0.232													
9.0	1493.7	0.977	0.218													
10.0	1492.6	0.976	0.167					47.57								
11.0	1491.9	0.976	0.144													
12.0	1490.8	0.975	0.144					63.63								
13.0	1493.0	0.976	0.167													
14.0	1492.6	0.976	0.179													
15.0	1492.6	0.976	0.144													
16.0	1494.5	0.977	0.144					102.87								
17.0	1496.7	0.979	0.167													
18.0	1493.4	0.976	0.179					115.36								
19.0	1493.4	0.976	0.205													
20.0	1494.8	0.977	0.218													
21.0	1500.0	0.981	0.247													
22.0	1495.6	0.978	0.205					83.27								
23.0	1494.1	0.977	0.232													
24.0	1493.4	0.976	0.205					83.84								
25.0	1493.7	0.977	0.192													
26.0	1496.7	0.979	0.247													

Cruise: BARTLT 1301-82 Sample: 74-3 Date: 11/21/81
 Position: 13-32N;64-44W Depth: 3503m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% sand	% silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.8	0.999	0.000													
0.0	1514.1	0.990	0.205													
1.0	1497.0	0.979	0.192													
2.0	1491.2	0.975	0.192													
3.0	1492.6	0.976	0.179													
4.0	1492.8	0.976	0.192													
5.0	1490.5	0.975	0.179													
6.0	1489.7	0.974	0.167													
7.0	1489.7	0.974	0.156													
8.0	1489.0	0.974	0.167													
9.0	1489.4	0.974	0.156													
10.0	1488.6	0.973	0.179													
11.0	1488.3	0.973	0.179													
12.0	1488.6	0.973	0.167													
13.0	1488.6	0.973	0.167													
14.0	1488.6	0.973	0.179													
15.0	1487.9	0.973	0.179													
16.0	1487.2	0.972	0.133													
17.0	1488.3	0.973	0.133													
18.0	1491.2	0.975	0.144													
19.0	1501.5	0.982	0.544													
20.0	1512.3	0.989	0.942													
21.0	1512.6	0.989	1.169													
22.0	1511.1	0.988	1.038													
23.0	1510.8	0.988	1.378													
24.0	1513.8	0.990	1.458													
25.0	1503.3	0.983	1.458													
26.0	1498.1	0.980	0.885													
27.0	1505.2	0.984	0.620													
28.0	1501.8	0.982	0.820													

Cruise: BARTLT 1301-82 Sample: 76-8 Date: 11/21/81
 Position: 13-33N; 64-41W Depth: 3490m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.3	0.999	0.000													
0.0	1502.4	0.982	0.159													
1.0	1493.2	0.976	0.159													
2.0	1491.0	0.975	0.206													
3.0	1489.9	0.974	0.194													
4.0	1488.8	0.973	0.194													
5.0	1489.2	0.974	0.194													
6.0	1489.9	0.974	0.182													
7.0	1489.9	0.974	0.182													
8.0	1489.9	0.974	0.206													
9.0	1490.6	0.975	0.233													
10.0	1490.3	0.974	0.206													
11.0	1489.5	0.974	0.194													
12.0	1488.1	0.973	0.170													
13.0	1488.1	0.973	0.159													
14.0	1488.1	0.973	0.159													
15.0	1487.7	0.973	0.137													
16.0	1488.1	0.973	0.137													
17.0	1489.9	0.974	0.170													
18.0	1490.6	0.975	0.206													
19.0	1491.4	0.975	0.182													
20.0	1491.7	0.975	0.194													
21.0	1491.0	0.975	0.194													
22.0	1493.6	0.977	0.182													
23.0	1499.1	0.980	0.219													
24.0	1496.1	0.978	0.233													
25.0	1497.2	0.979	0.292													
26.0	1493.2	0.976	0.276													
27.0	1491.7	0.975	0.261													
28.0	1488.4	0.973	0.292													
29.0	1491.4	0.975	0.261													
30.0	1493.9	0.977	0.364													

Date: 11/21/81
Depth: 3490m
0 m 400 kHz

Cruise: BARTLI 1301-82 Sample: 76-11
Position: 13-33N;64-41W
Calculated for: 23.0 Deg-C 35.00 o/oo

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.6	0.999	0.000													
0.0	1525.7	0.998	0.048					8.33								
1.0	1507.2	0.986	0.294													
2.0	1495.0	0.978	0.218													
3.0	1492.1	0.976	0.192													
4.0	1491.7	0.975	0.192													
5.0	1490.6	0.975	0.179					22.60								
6.0	1489.5	0.974	0.167					40.44								
7.0	1491.0	0.975	0.156													
8.0	1491.0	0.975	0.167													
9.0	1491.4	0.975	0.167													
10.0	1490.6	0.975	0.179					52.33								
12.0	1490.6	0.975	0.167					76.12								
13.0	1489.2	0.974	0.156													
14.0	1489.5	0.974	0.144													
15.0	1488.8	0.973	0.123													
16.0	1490.6	0.975	0.167													
17.0	1491.7	0.975	0.179													
18.0	1493.6	0.977	0.167													
19.0	1494.7	0.977	0.156													
20.0	1493.9	0.977	0.156					133.20								
21.0	1493.2	0.976	0.167					107.63								
22.0	1493.2	0.976	0.192													
23.0	1498.0	0.979	0.247													
24.0	1497.2	0.979	0.294													
25.0	1494.3	0.977	0.312													
26.0	1492.5	0.976	0.218					141.53								
27.0	1491.7	0.975	0.218					113.58								
28.0	1487.4	0.973	0.247													

Cruise: BARTLT 1301-82 Sample: 77-2 Date: 11/22/81
 Position: 13-28N;64-40W Depth: 3477m
 Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	% Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.6	0.999	0.000													
0.0	1513.4	0.990	0.278													
1.0	1498.9	0.980	0.218													
2.0	1493.0	0.976	0.179													
3.0	1491.2	0.975	0.179													
4.0	1491.2	0.975	0.205													
5.0	1491.2	0.975	0.179													
6.0	1491.2	0.975	0.167													
7.0	1490.8	0.975	0.192													
8.0	1490.8	0.975	0.179													
9.0	1490.8	0.975	0.179													
10.0	1490.1	0.974	0.144													
11.0	1490.1	0.974	0.133													
12.0	1489.7	0.974	0.133													
13.0	1490.8	0.975	0.144													
14.0	1491.2	0.975	0.167													
15.0	1490.8	0.975	0.133													
16.0	1493.0	0.976	0.133													
17.0	1493.0	0.976	0.144													
18.0	1495.6	0.978	0.156													
19.0	1497.4	0.979	0.179													
20.0	1494.8	0.977	0.192													
21.0	1492.6	0.976	0.192													
22.0	1491.5	0.975	0.205													
23.0	1493.7	0.977	0.312													
									15.56	12.31	72.14	9.07	3.61	-0.46	1.29	0.55

Cruise: BARTLT 1301-82 Sample: 77-3 Date: 11/22/81
 Position: 13-28N;64-40W Depth: 3477m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.1	0.998	0.000													
0.0	1522.5	0.995	0.102													
1.0	1504.4	0.984	0.232					5.35								
2.0	1493.4	0.976	0.247													
3.0	1492.3	0.976	0.179													
4.0	1490.8	0.975	0.179													
5.0	1490.1	0.974	0.167					25.57								
6.0	1489.7	0.974	0.167					49.95								
7.0	1489.7	0.974	0.156													
8.0	1490.1	0.974	0.167													
9.0	1490.1	0.974	0.167													
10.0	1490.1	0.974	0.218													
11.0	1490.1	0.974	0.192					71.95								
12.0	1489.3	0.974	0.133													
13.0	1488.3	0.973	0.123					126.60								
14.0	1488.3	0.973	0.123													
15.0	1490.4	0.975	0.144													
16.0	1494.1	0.977	0.167													
17.0	1493.0	0.976	0.156					159.37								
18.0	1494.5	0.977	0.144													
19.0	1492.3	0.976	0.156					107.04								
20.0	1490.1	0.974	0.156													
21.0	1487.2	0.972	0.167													
22.0	1493.0	0.976	0.294													
23.0	1512.6	0.989	1.211													
24.0	1503.3	0.983	0.531					114.77								
25.0	1493.7	0.977	0.409					68.38								
26.0	1492.3	0.976	0.349													

Cruise: BARTLI 1301-82 Date: 11/22/81
 Position: 13-33N;64-43W Depth: 3495m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Sample: 79-8

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.8	1.000	0.000													
0.0	1518.5	0.993	0.167													
1.0	1494.6	0.977	0.167													
2.0	1492.4	0.976	0.167													
3.0	1491.3	0.975	0.167													
4.0	1491.0	0.975	0.179													
5.0	1489.9	0.974	0.192													
6.0	1489.9	0.974	0.205													
7.0	1490.6	0.975	0.192													
8.0	1491.3	0.975	0.205													
9.0	1490.6	0.975	0.205													
10.0	1491.3	0.975	0.218													
11.0	1489.5	0.974	0.262													
12.0	1489.5	0.974	0.144													
13.0	1488.1	0.973	0.133													
14.0	1488.1	0.973	0.123													
15.0	1489.5	0.974	0.144													
16.0	1491.7	0.975	0.179													
17.0	1493.5	0.977	0.205													
18.0	1494.3	0.977	0.247													
19.0	1497.2	0.979	0.312													
20.0	1496.1	0.978	0.278													
21.0	1493.0	0.976	0.218													
22.0	1493.2	0.976	0.205													
23.0	1497.2	0.979	0.294													
24.0	1512.1	0.989	0.876													
25.0	1496.5	0.978	0.330													
26.0	1492.8	0.976	0.232													
27.0	1500.2	0.981	0.675													
28.0	1500.2	0.981	0.717													

Cruise: BAKTLT 1301-82 Sample: 79-9 Date: 11/22/81
 Position: 13-33N;64-43W Depth: 3495m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.2	0.999	0.015													
0.0	1526.3	0.998	0.048													
1.0	1503.7	0.983	0.179					6.54								
2.0	1495.5	0.978	0.205													
3.0	1493.7	0.977	0.218													
4.0	1491.9	0.975	0.205													
5.0	1491.9	0.975	0.218					29.54								
6.0	1493.7	0.977	0.218					41.03								
7.0	1493.0	0.976	0.232													
8.0	1492.6	0.976	0.232													
9.0	1490.8	0.975	0.218													
10.0	1490.0	0.974	0.179					55.30								
11.0	1489.0	0.974	0.156					70.76								
12.0	1490.4	0.975	0.167													
13.0	1491.9	0.975	0.312													
14.0	1490.0	0.974	0.167													
15.0	1490.0	0.974	0.144													
16.0	1489.3	0.974	0.144													
17.0	1492.2	0.976	0.156													
18.0	1491.5	0.975	0.144													
19.0	1494.1	0.977	0.179													
20.0	1493.0	0.976	0.205					101.09								
21.0	1493.0	0.976	0.218					95.15								
22.0	1493.3	0.976	0.218													
23.0	1492.6	0.976	0.205													
24.0	1461.1	0.955	0.232					110.01								
25.0	1491.1	0.975	0.247					71.35								

Cruise: BARTLT 1301-82 Sample: 79-18 Date: 11/22/81
 Position: 13-33N;64-43W Depth: 3495m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.535	0.109									
2.0						0.571	0.105									
3.0																
4.0																
5.0						0.463	0.106									

Cruise: BARTLE 1301-82 Sample: 80-2 Date: 11/23/81
 Position: 13-32N; 64-32W Depth: 3429m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	vp m/sec	vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.0	1.000	0.000													
0.0	1519.0	0.993	0.123		27.70				12.23	12.95	74.82	9.41	3.36	-0.43	1.53	0.61
1.0	1498.5	0.980	0.167	84.4												
2.0	1493.0	0.976	0.167						13.39	12.45	74.16	9.18	3.40	-0.48	1.57	0.61
3.0	1492.6	0.976	0.205	81.3	27.46											
4.0	1494.1	0.977	0.262						11.69	13.20	75.11	9.37	3.24	-0.46	1.61	0.62
5.0	1491.9	0.975	0.205	80.6	25.19											
6.0	1490.4	0.975	0.167						9.41	13.74	76.84	9.72	3.15	-0.38	1.48	0.60
7.0	1450.4	0.975	0.144	79.5	25.10											
8.0	1490.4	0.975	0.156						7.66	15.41	76.94	9.67	2.95	-0.38	1.53	0.60
9.0	1492.6	0.976	0.156	79.3	24.51											
10.0	1492.2	0.976	0.167						7.89	16.88	75.24	9.49	2.98	-0.43	1.53	0.60
11.0	1492.2	0.976	0.167	77.9	24.87											
12.0	1489.0	0.974	0.167						6.54	16.98	76.48	9.71	2.87	-0.36	1.37	0.58
13.0	1489.3	0.974	0.156	78.1	23.44											
14.0	1489.0	0.974	0.144						6.13	12.17	81.69	9.92	2.63	-0.35	1.81	0.64
15.0	1489.3	0.974	0.144	77.1	23.34											
16.0	1489.0	0.974	0.144						5.27	16.69	78.04	9.75	2.64	-0.33	1.40	0.58
17.0	1487.9	0.973	0.144	77.0	23.00											
18.0	1491.9	0.975	0.156						4.69	13.24	82.08	9.83	2.31	-0.36	1.74	0.63
19.0	1492.6	0.976	0.144	76.6	25.60											
20.0	1492.2	0.976	0.167						5.68	14.63	79.68	9.81	2.66	-0.35	1.55	0.61
21.0	1492.2	0.976	0.179	75.6	24.65											
22.0	1493.0	0.976	0.179						4.67	17.60	77.73	9.63	2.54	-0.35	1.40	0.58
23.0	1500.3	0.981	0.247	75.7	25.42											
24.0	1502.6	0.982	0.278						10.43	14.66	74.91	9.34	3.17	-0.46	1.59	0.61
25.0	1494.1	0.977	0.232	76.2	27.70											
26.0	1494.8	0.977	0.262						11.01	16.43	72.56	9.26	3.35	-0.43	1.31	0.57
27.0	1494.1	0.977	0.330	75.4	29.03											
28.0									7.31	16.52	76.16	9.59	2.96	-0.39	1.42	0.59
29.0				75.5	26.48											
30.0									8.26	15.26	76.48	9.76	3.12	-0.35	1.36	0.58
31.0				76.4	27.18											

Cruise: BARTLT 1301-82 Sample: 82-1 Date: 11/23/81
 Position: 13-35N;64-40W Depth: 3433m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	VP m/sec	VP Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.2	0.999	0.000													
0.0	1527.1	0.998	0.031													
1.0	1506.7	0.985	0.312													
2.0	1496.3	0.978	0.192													
3.0	1494.1	0.977	0.192													
4.0	1492.2	0.976	0.205													
5.0	1492.2	0.976	0.192													
6.0	1492.2	0.976	0.192													
7.0	1492.2	0.976	0.192													
8.0	1491.5	0.975	0.218													
9.0	1491.5	0.975	0.391													
10.0	1498.1	0.980	1.131													
11.0	1498.5	0.980	0.370													
12.0	1495.2	0.978	0.247													
13.0	1492.6	0.976	0.247													
14.0	1491.5	0.975	0.330													
15.0	1490.8	0.975	0.247													
16.0	1490.0	0.974	0.218													
17.0	1491.5	0.975	0.247													
18.0	1490.8	0.975	0.218													
19.0	1491.9	0.975	0.192													
20.0	1495.5	0.978	0.218													
21.0	1497.0	0.979	0.247													
22.0	1494.4	0.977	0.218													
23.0	1495.5	0.978	0.247													
24.0	1494.8	0.977	0.218													

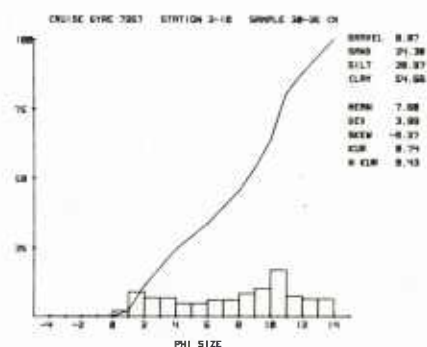
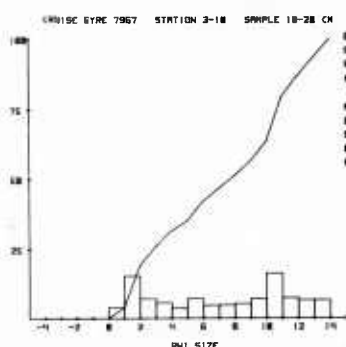
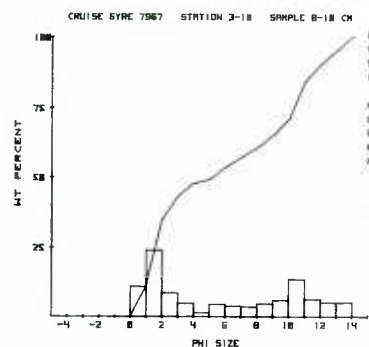
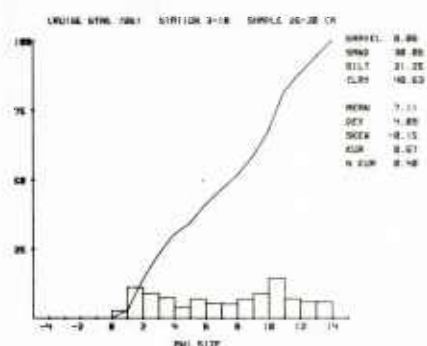
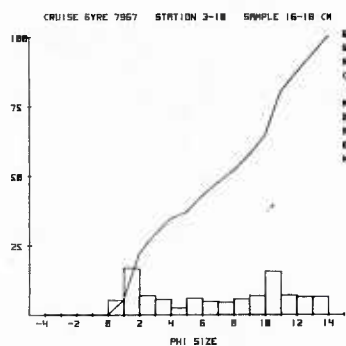
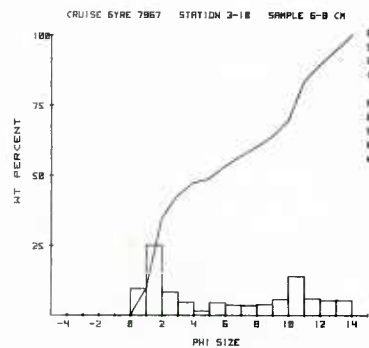
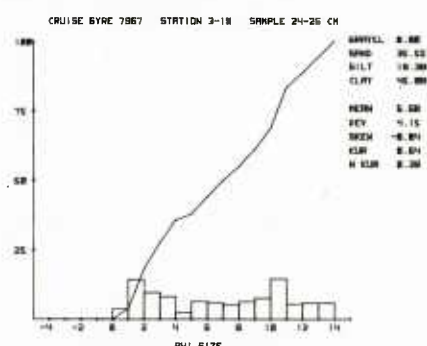
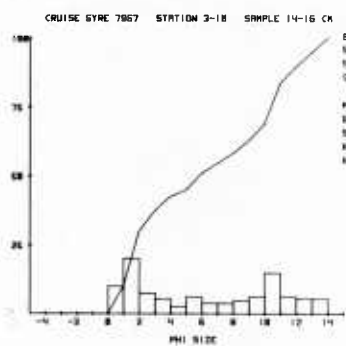
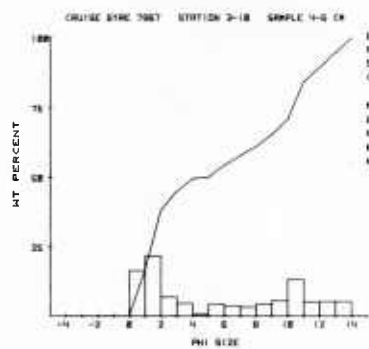
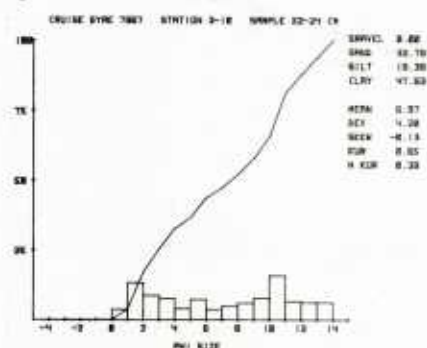
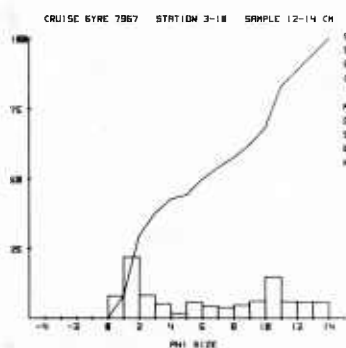
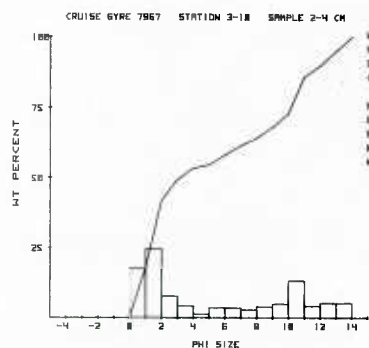
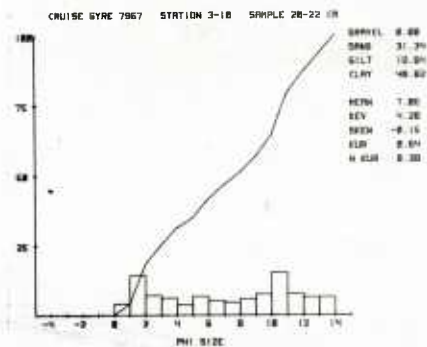
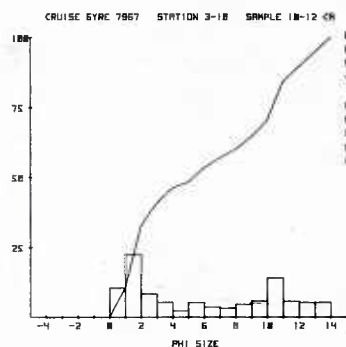
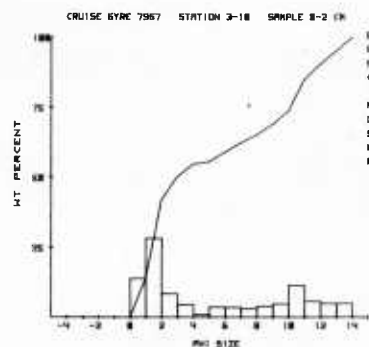
Cruise: BARTLT 1301-82 Sample: 82-2 Date: 11/23/81
 Position: 13-35N; 64-40W Depth: 3433m
 Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

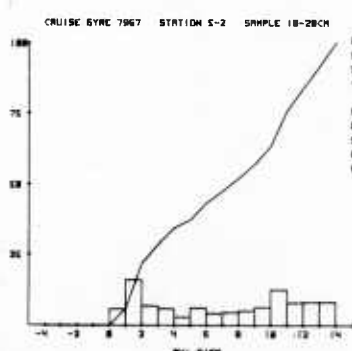
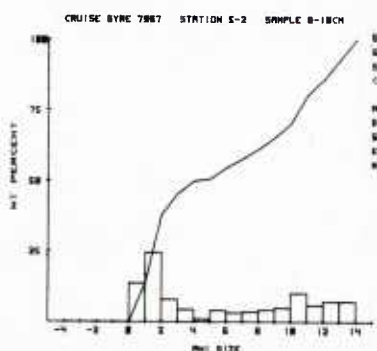
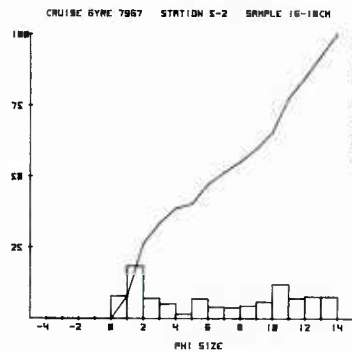
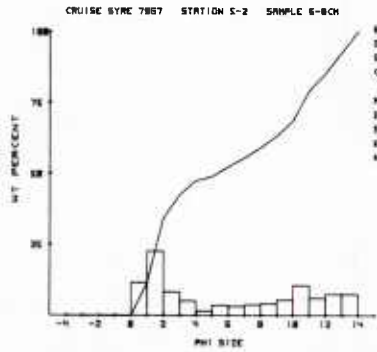
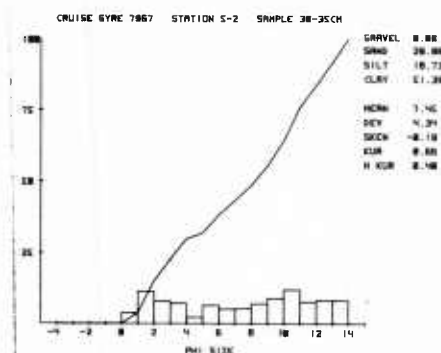
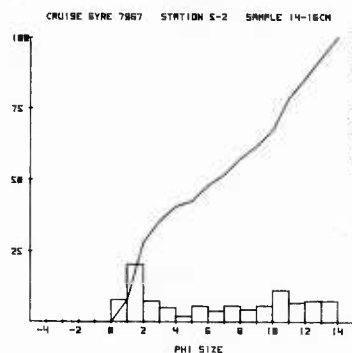
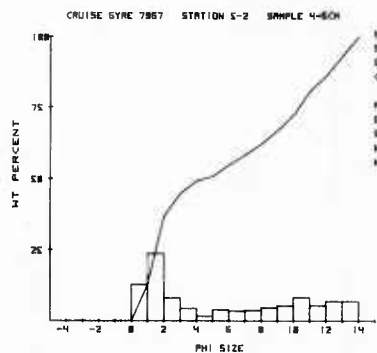
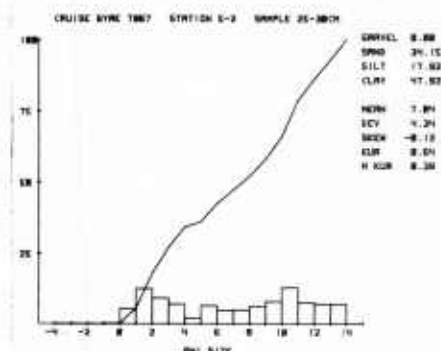
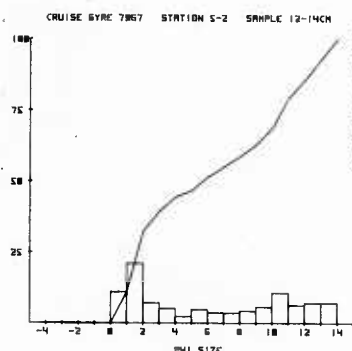
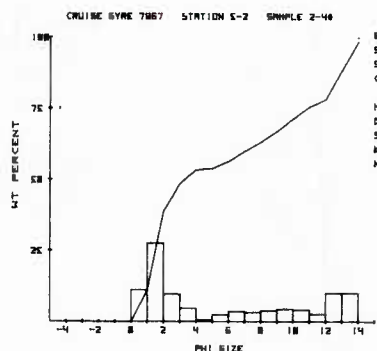
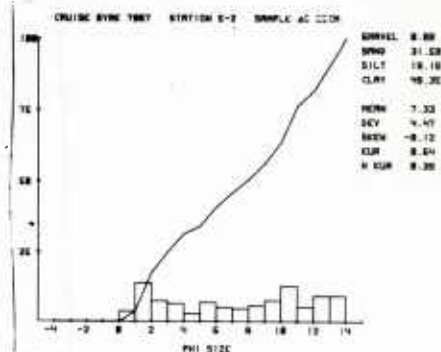
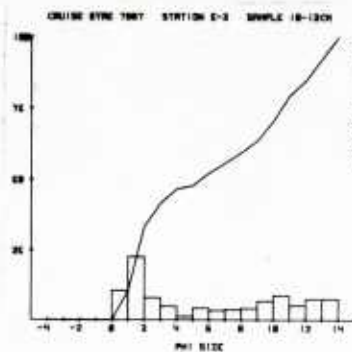
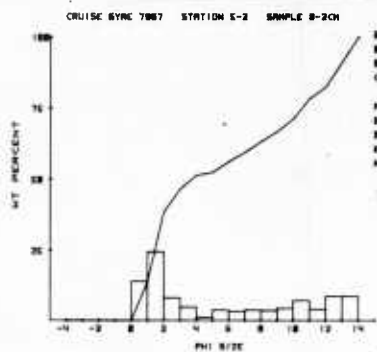
Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO ₃	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.5	0.999	0.000													
0.0	1514.0	0.990	0.144					4.76								
1.0	1502.1	0.982	0.247													
2.0	1495.4	0.978	0.179													
3.0	1493.2	0.976	0.192													
4.0	1492.8	0.976	0.218													
5.0	1492.5	0.976	0.205					18.43								
6.0	1491.4	0.975	0.205					29.73								
7.0	1490.3	0.974	0.167													
8.0	1489.2	0.974	0.144													
9.0	1490.6	0.975	0.144													
10.0	1491.0	0.975	0.167													
11.0	1490.6	0.975	0.167					27.95								
12.0	1499.5	0.980	0.482					65.41								
13.0	1511.4	0.988	0.656													
14.0	1505.0	0.984	0.885													
15.0	1500.2	0.981	0.791													
16.0	1495.0	0.978	0.349					92.77								
17.0	1492.1	0.976	0.262													
18.0	1492.8	0.976	0.218					92.77								
19.0	1493.6	0.977	0.167													
20.0	1496.5	0.979	0.247													
21.0	1494.3	0.977	0.247													
22.0	1491.4	0.975	0.218													
23.0	1492.5	0.976	0.330					73.74								

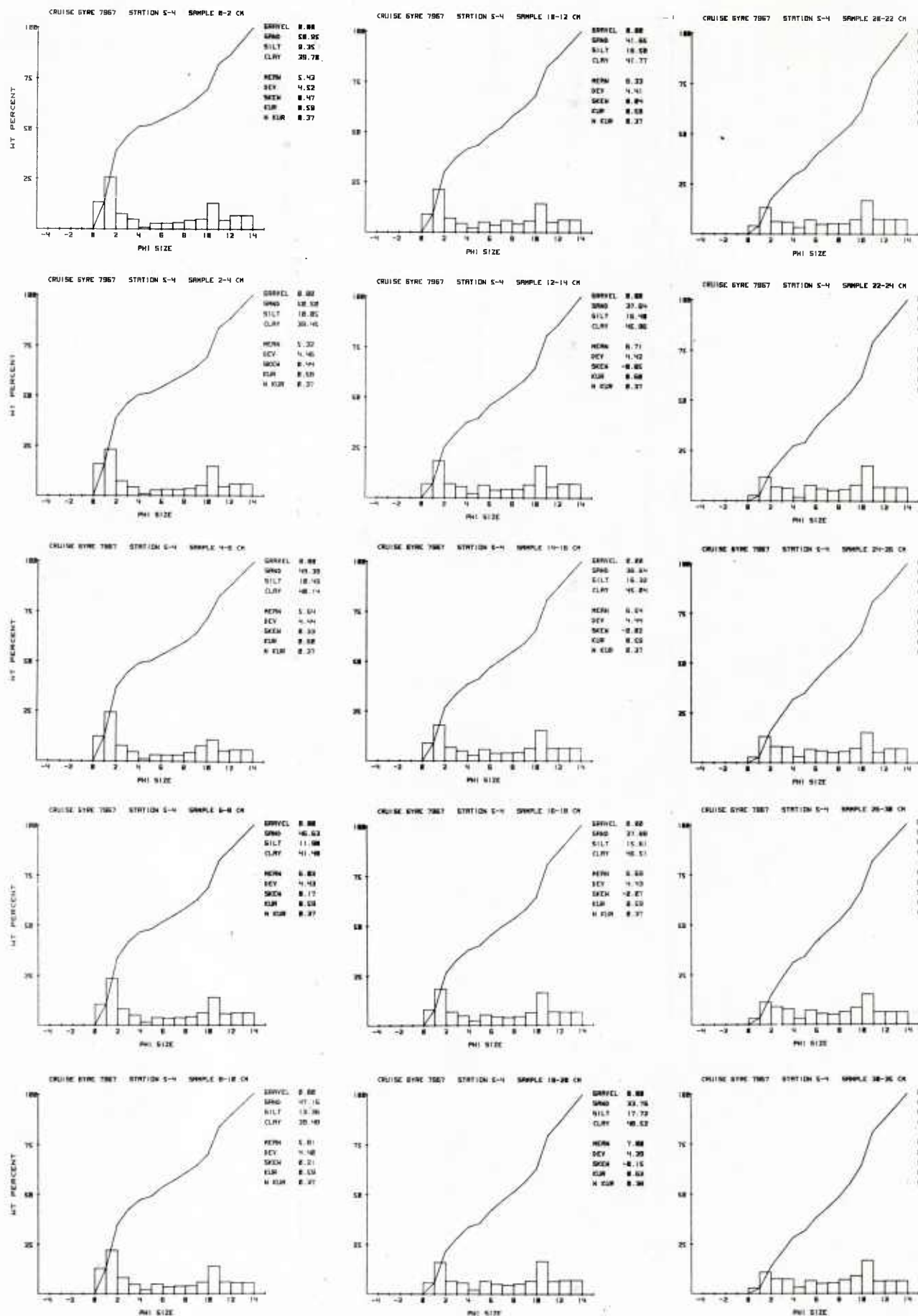
APPENDIX B
FREQUENCY HISTOGRAMS OF GRAIN SIZE DISTRIBUTION DATA
FOR SEDIMENTS COLLECTED IN BOX CORES FROM THE VENEZUELA BASIN

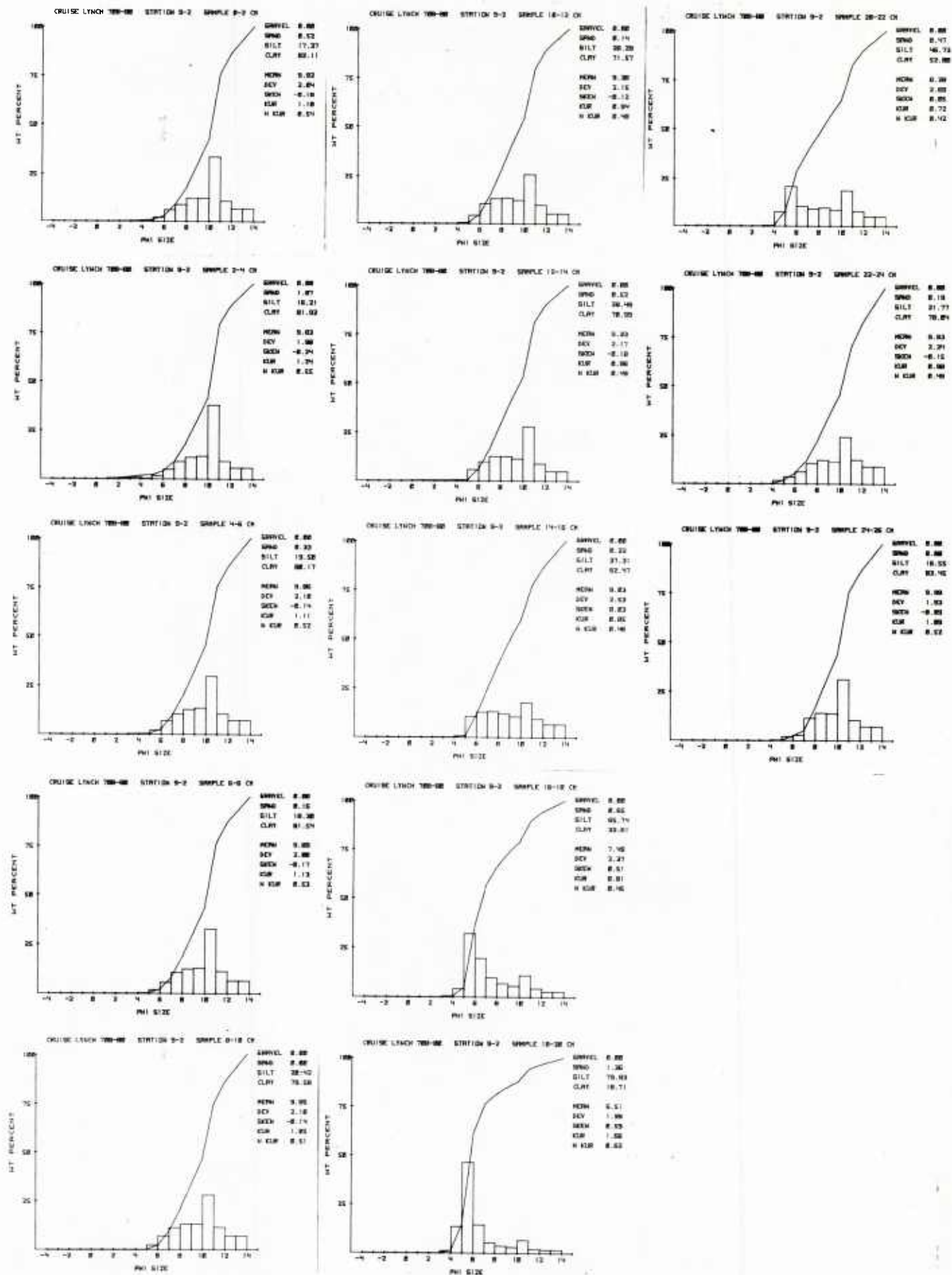
Grain size data are plotted as weight percent histograms and cumulative weight curves for phi sizes -4 through 14. Also included are percentage gravel, sand, silt, and clay and Folk and Ward's mean phi, standard deviation, skewness, kurtosis, and normalized kurtosis. Data include three stations from location 1, five stations from location 2, three stations from location 3, three stations along a transect from location 1 to location 2, and five stations along a transect from location 2 to location 3.

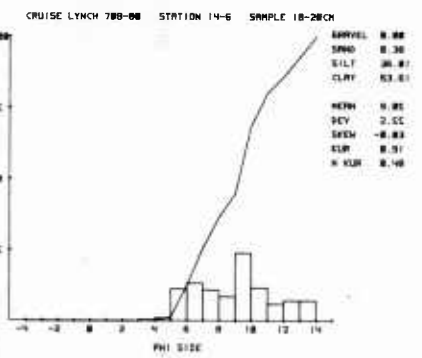
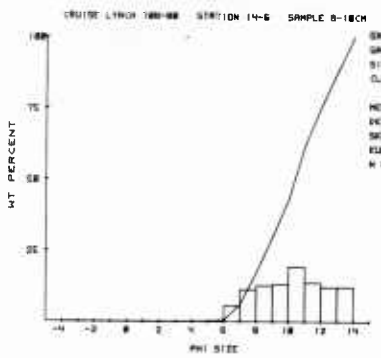
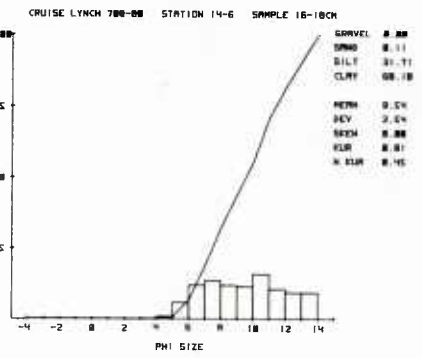
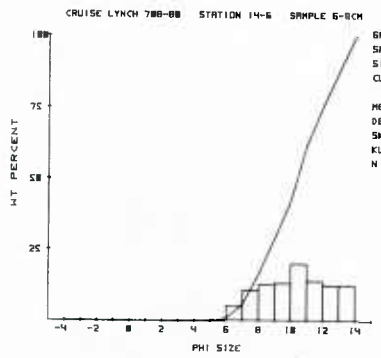
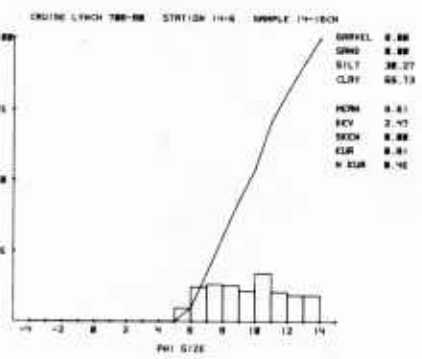
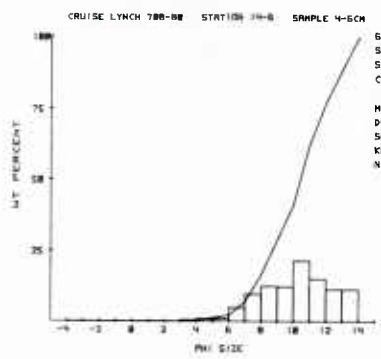
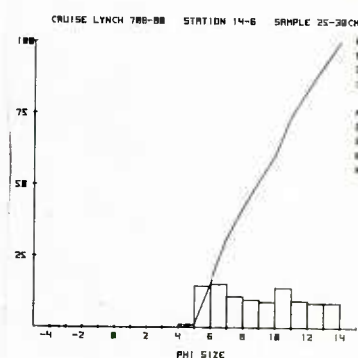
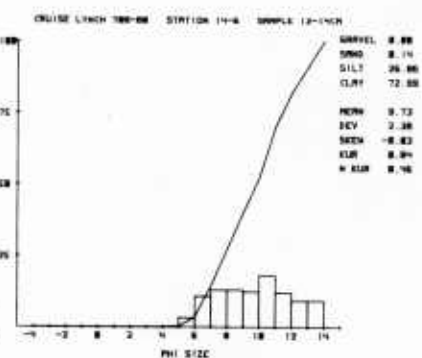
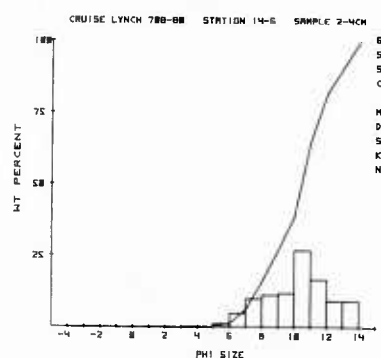
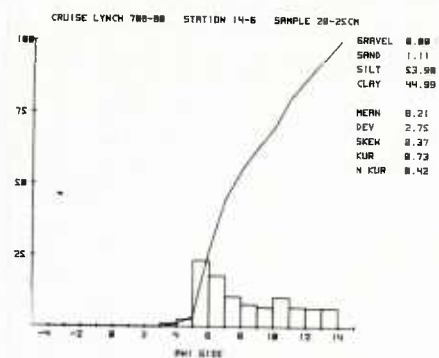
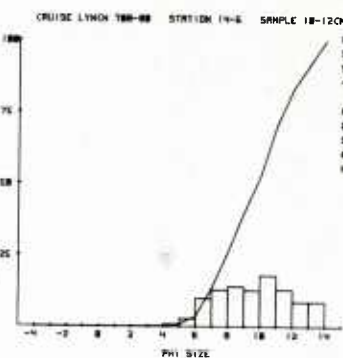
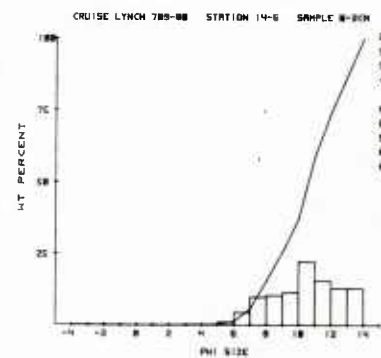
<u>Station</u>	<u>Subcore</u>	<u>Sample</u>	<u>Page</u>
3	10	0-35	200
5	2	0-35	201
5	4	0-35	202
9	2	0-26	203
14	6	0-30	204
14	9	0-30	205
14	9	30-34	206
17	1	0-30	207
17	3	0-28	208
18	1	0-24	209
26	2	0-30	210
26	2	30-38	211
42	11	0-30	212
42	11	30-33	213
43	15	0-30	214
43	15	30-32	215
44	12	0-30	216
44	12	30-36	217
51	3	0-16	218
51	5	14-42	219
53	19	0-16	220
53	21	16-38	221
54	4	0-22	222
54	2	20-42	223
67	1	0-30	224
67	1	30-38	225
68	3	0-30	226
69	9	0-28	227
70	11	0-25.5	228
71	10	0-22	229
80	2	0-30	230
80	2	30-31	231

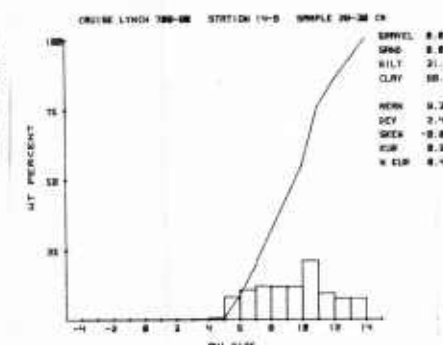
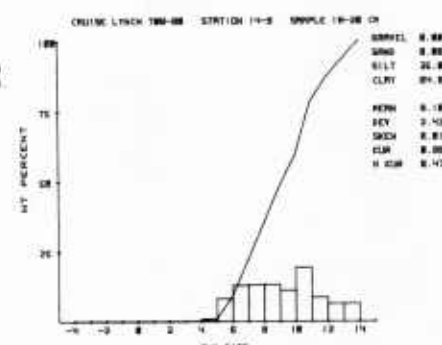
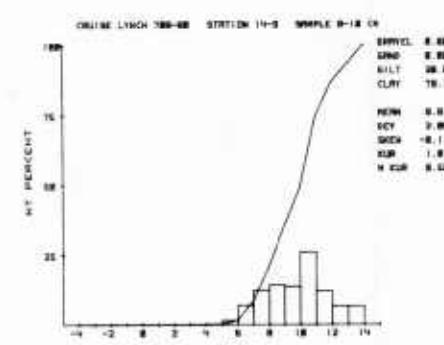
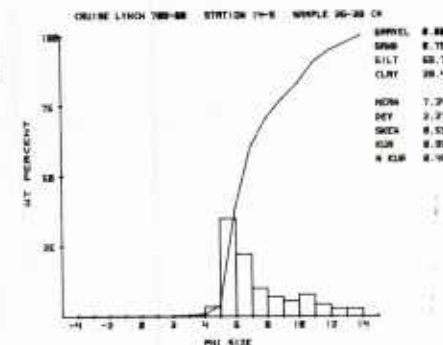
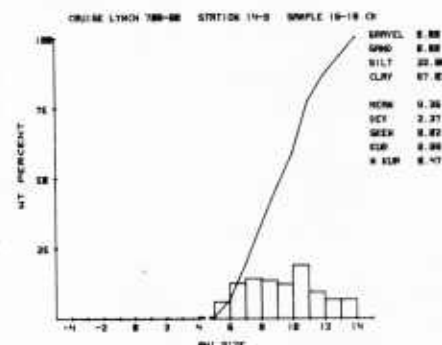
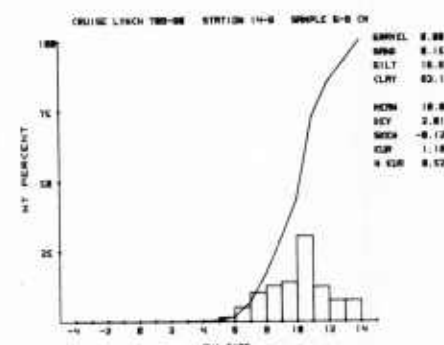
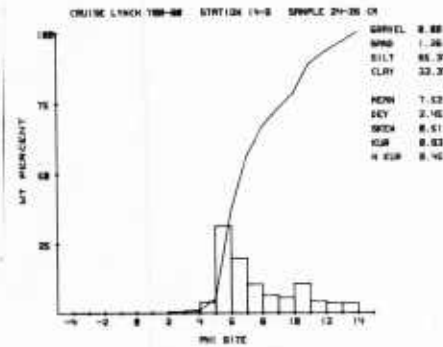
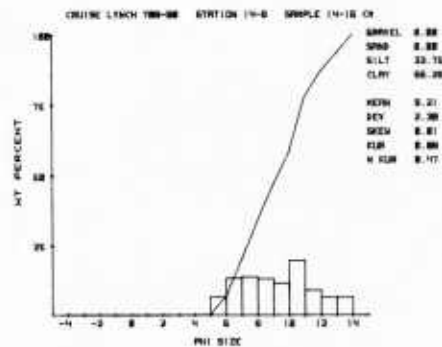
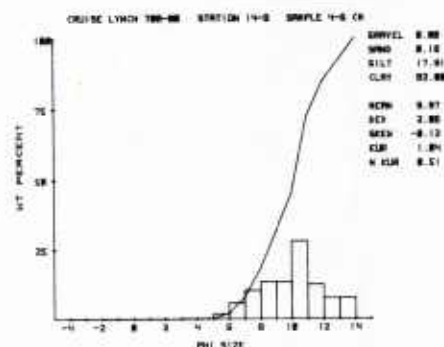
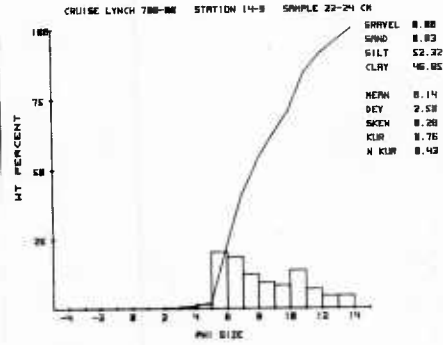
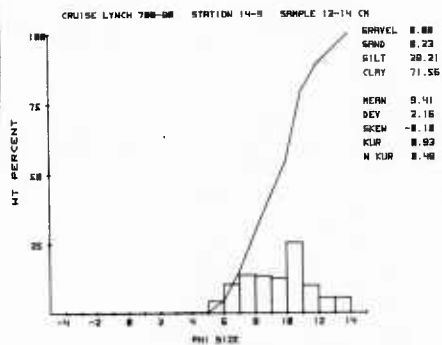
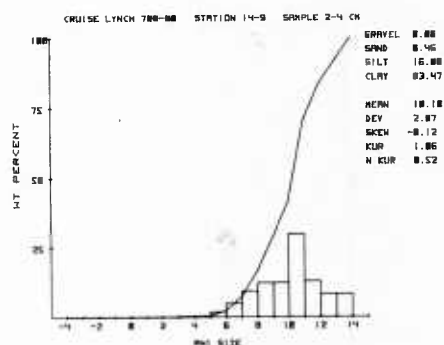
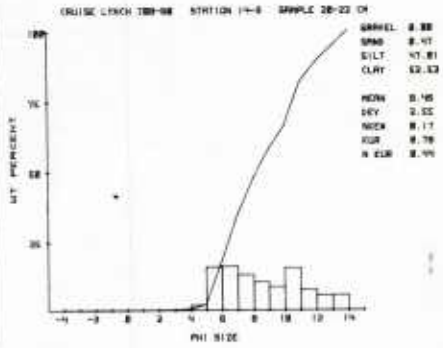
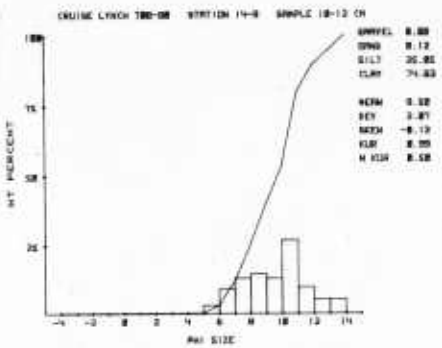
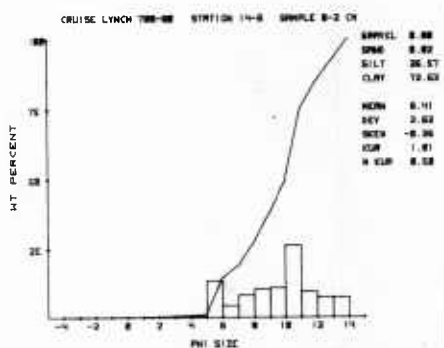


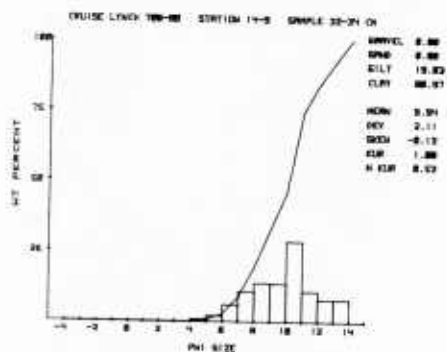
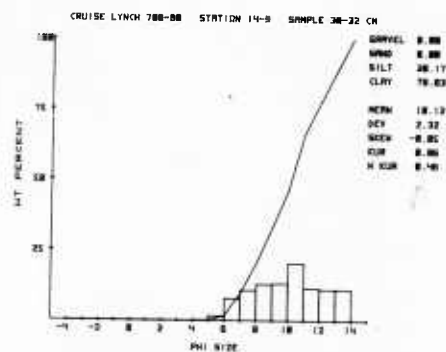


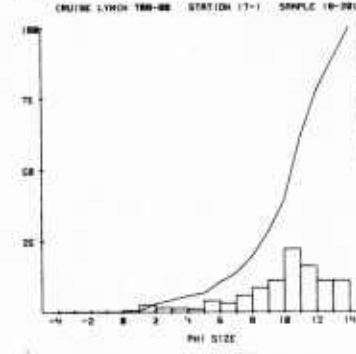
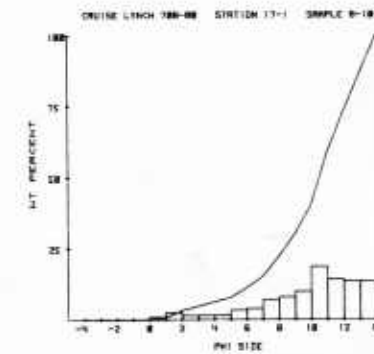
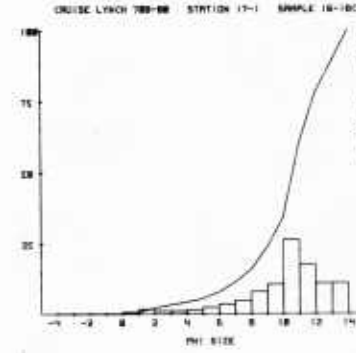
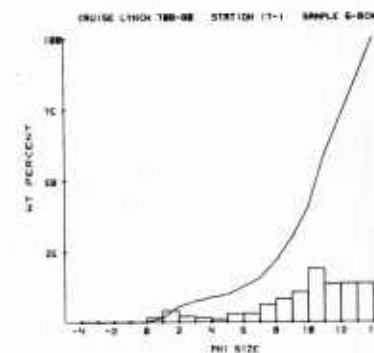
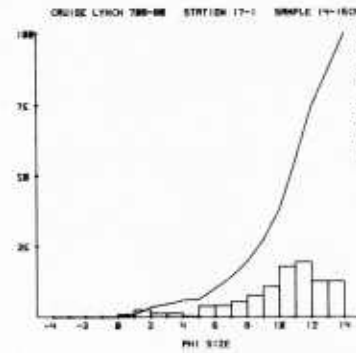
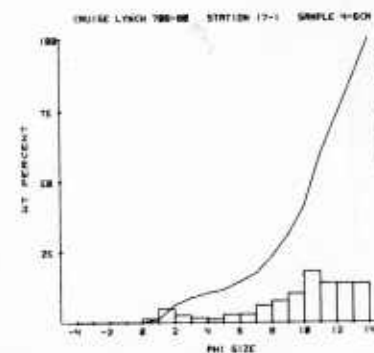
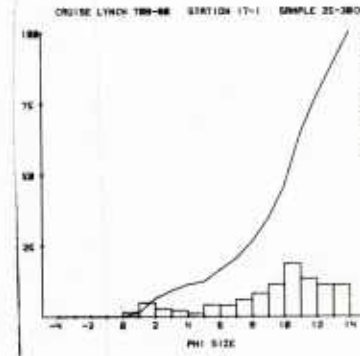
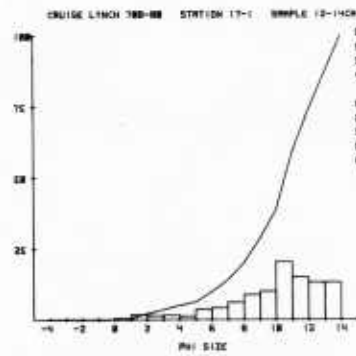
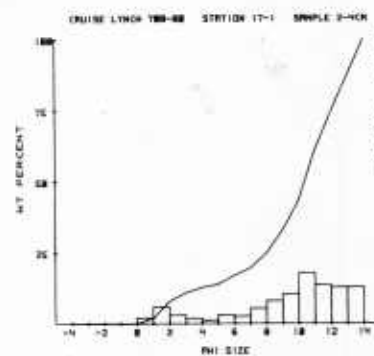
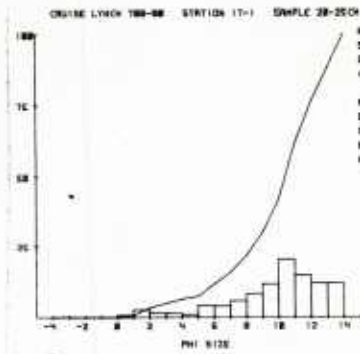
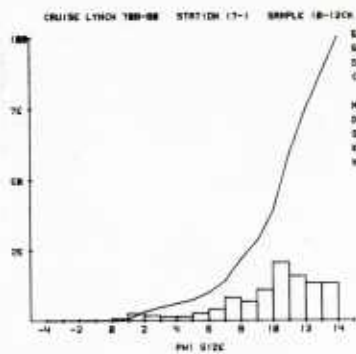
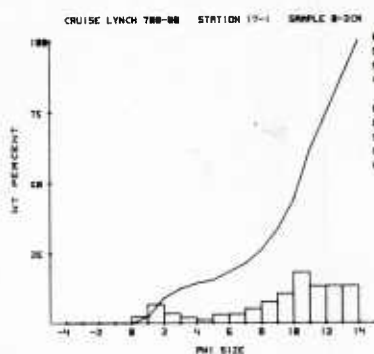


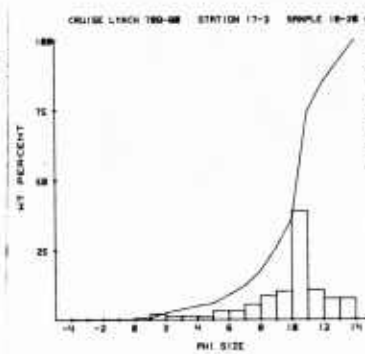
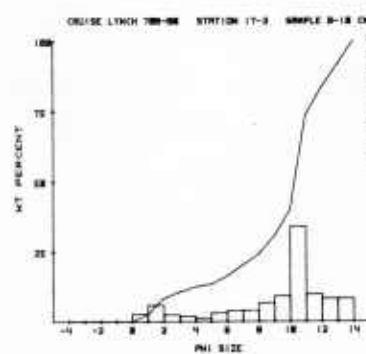
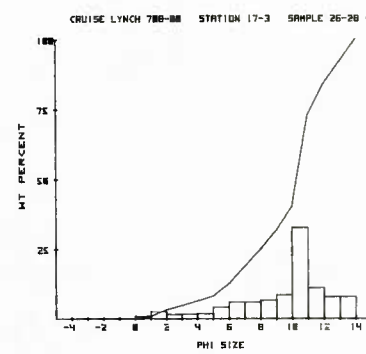
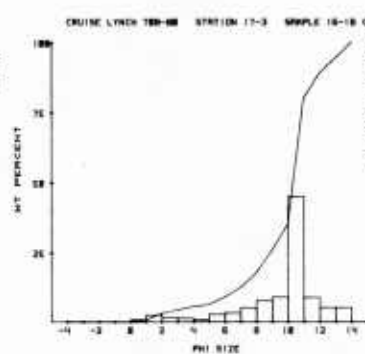
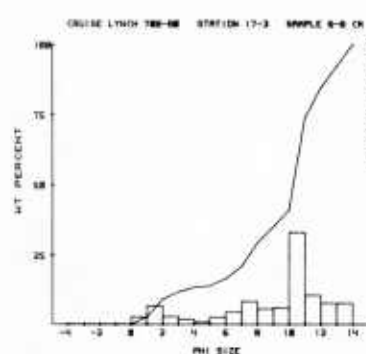
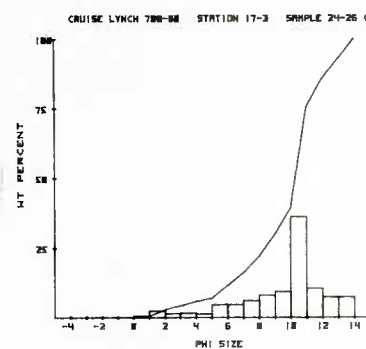
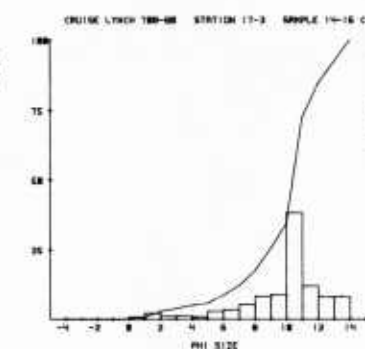
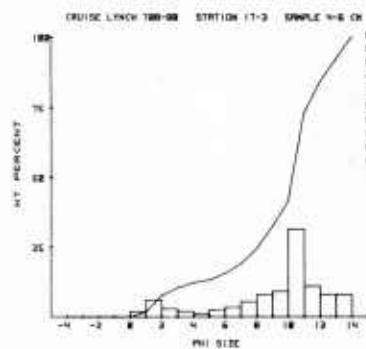
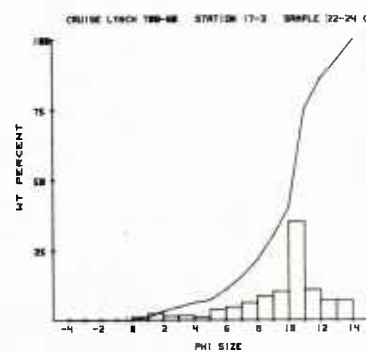
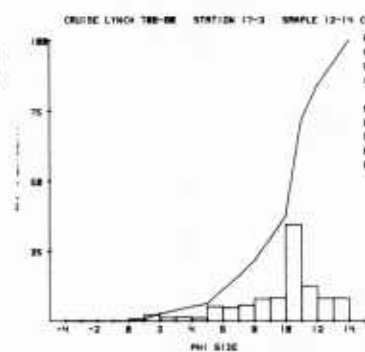
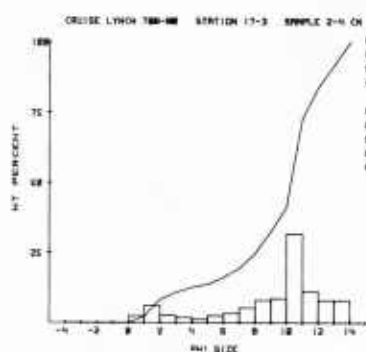
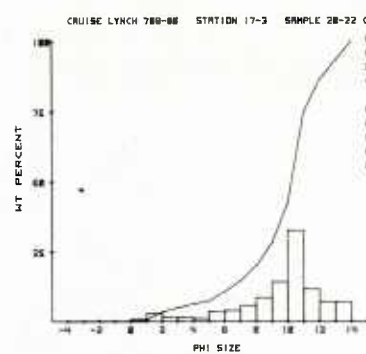
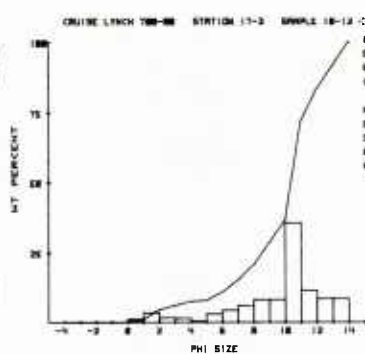
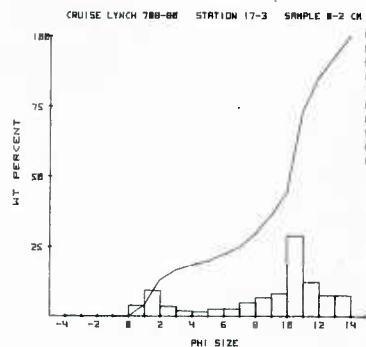


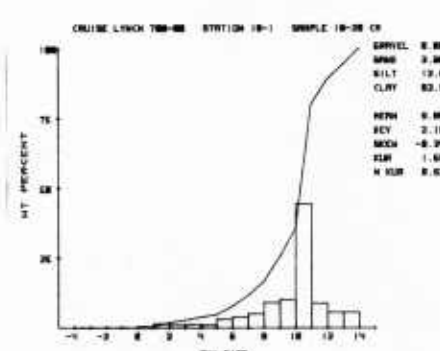
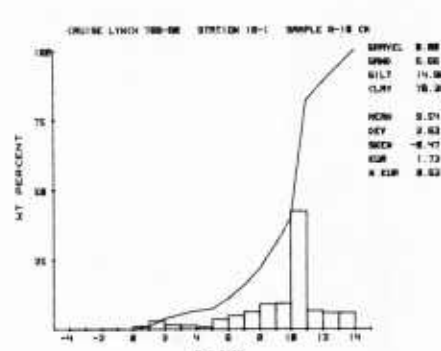
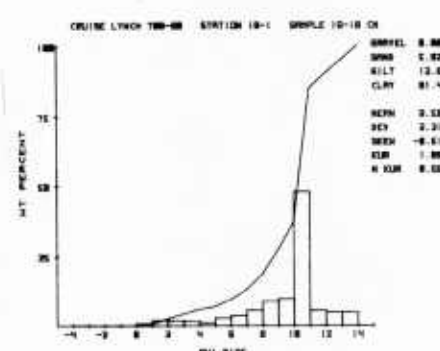
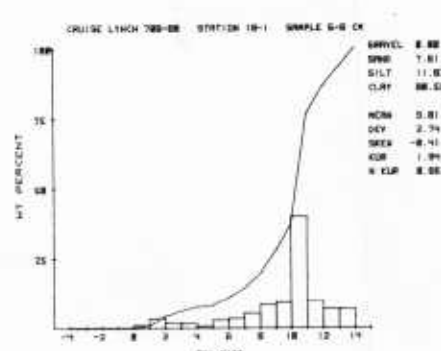
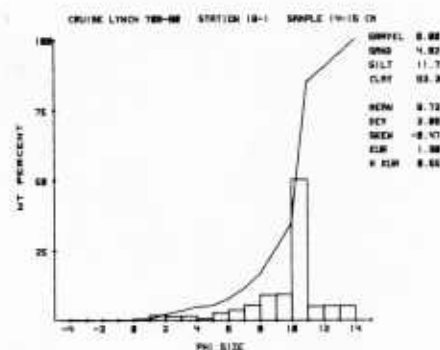
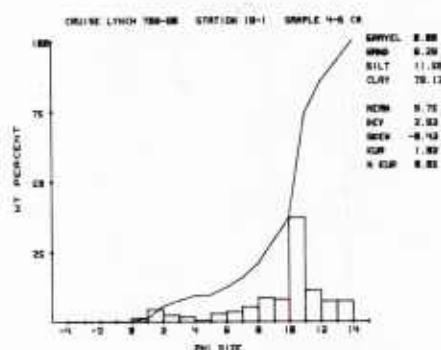
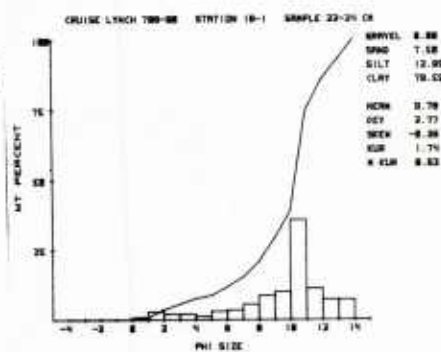
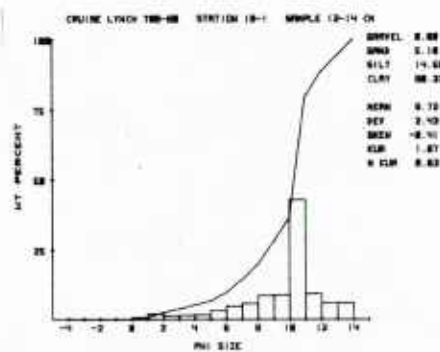
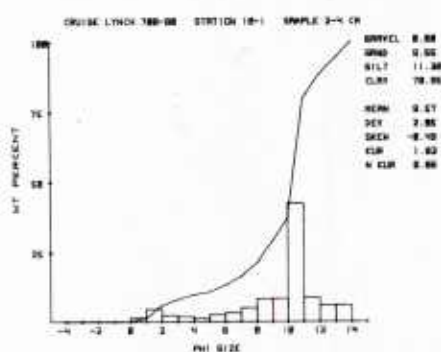
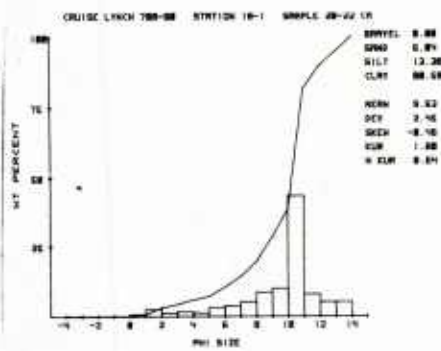
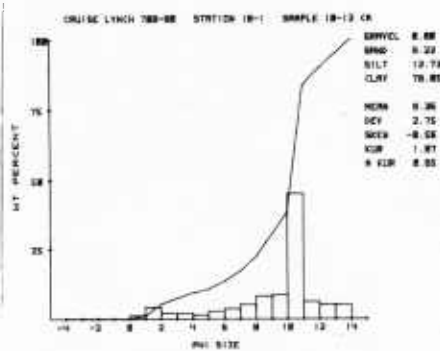
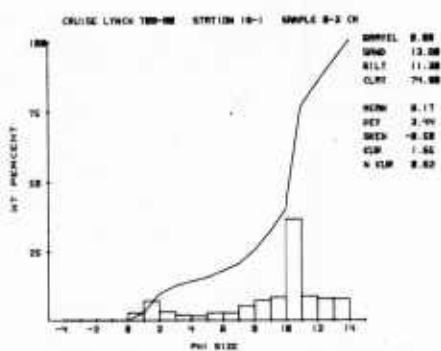


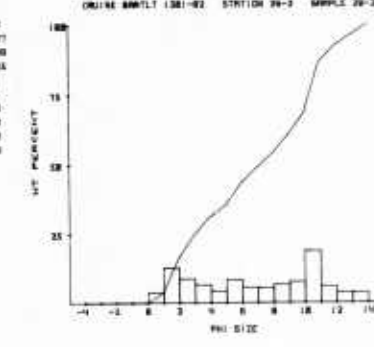
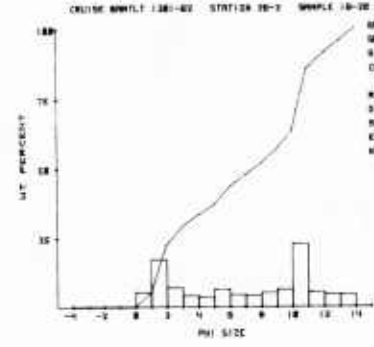
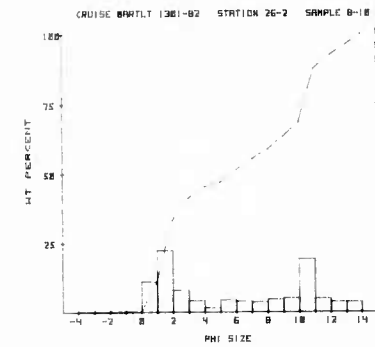
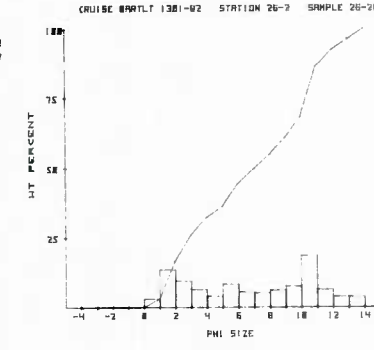
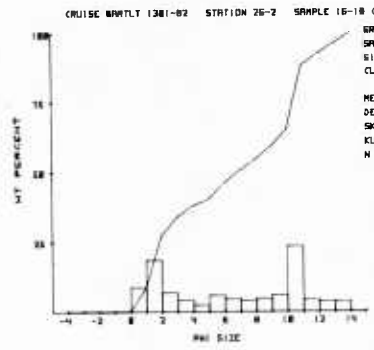
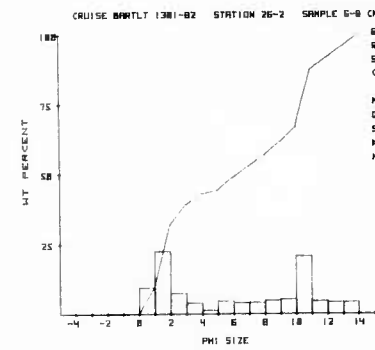
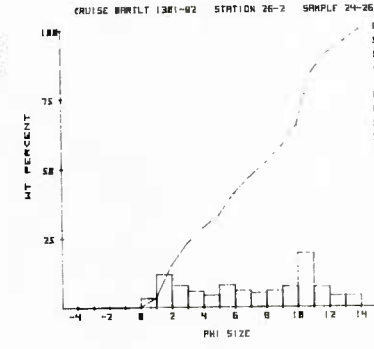
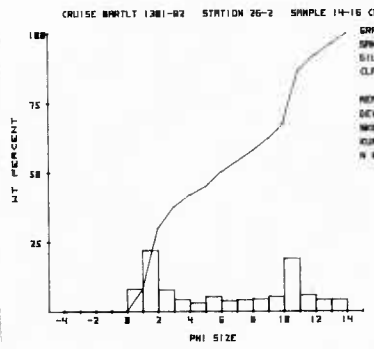
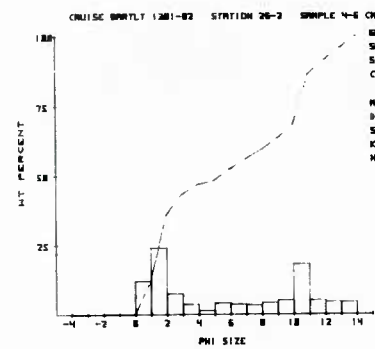
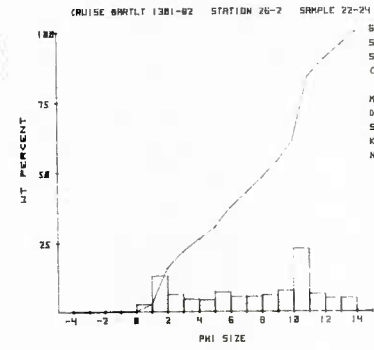
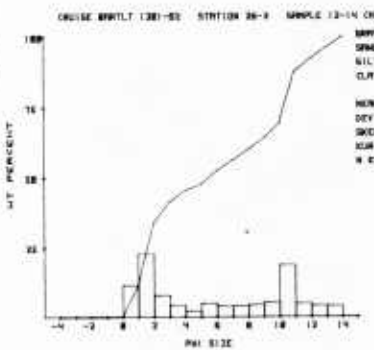
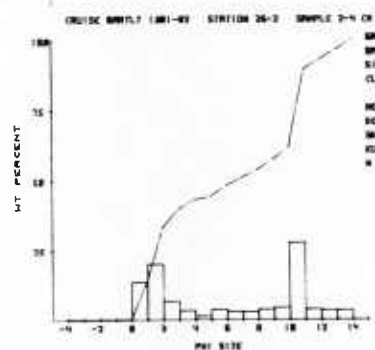
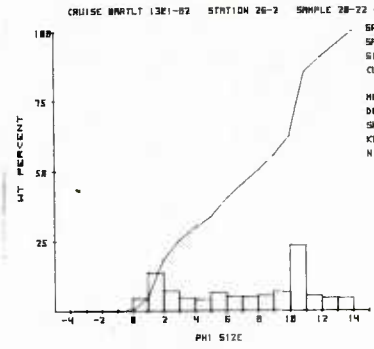
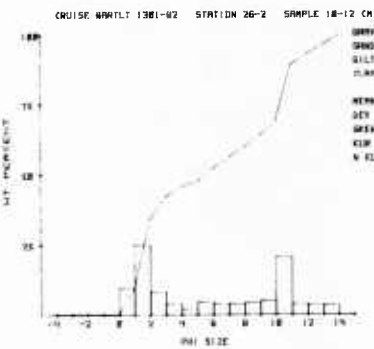
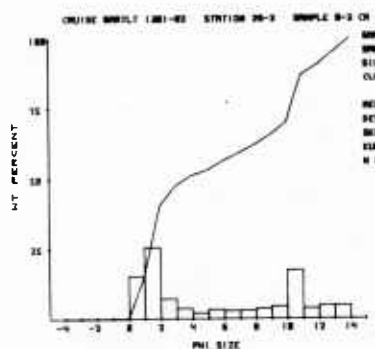


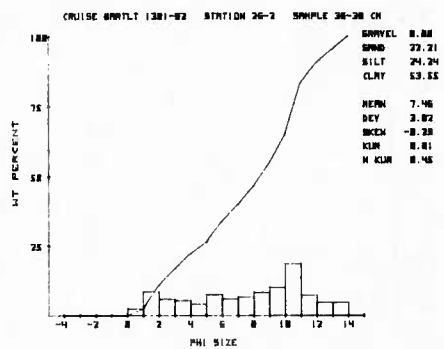
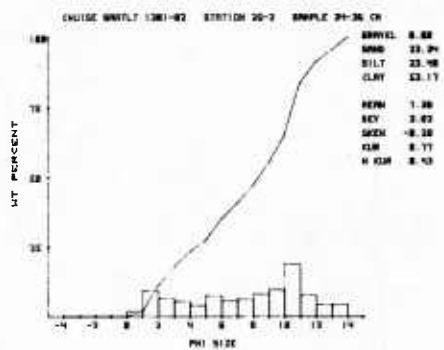
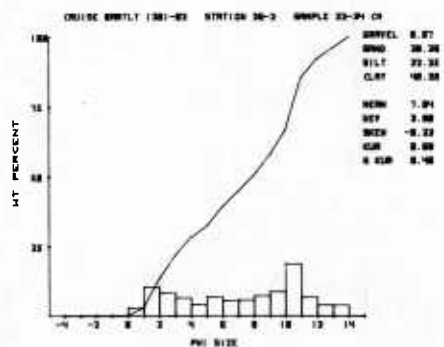
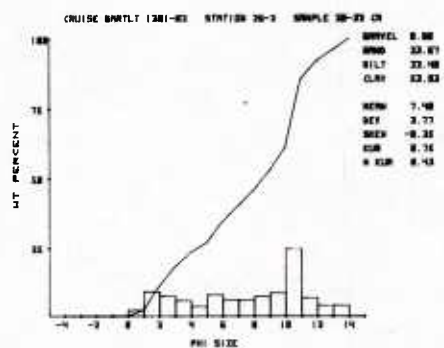


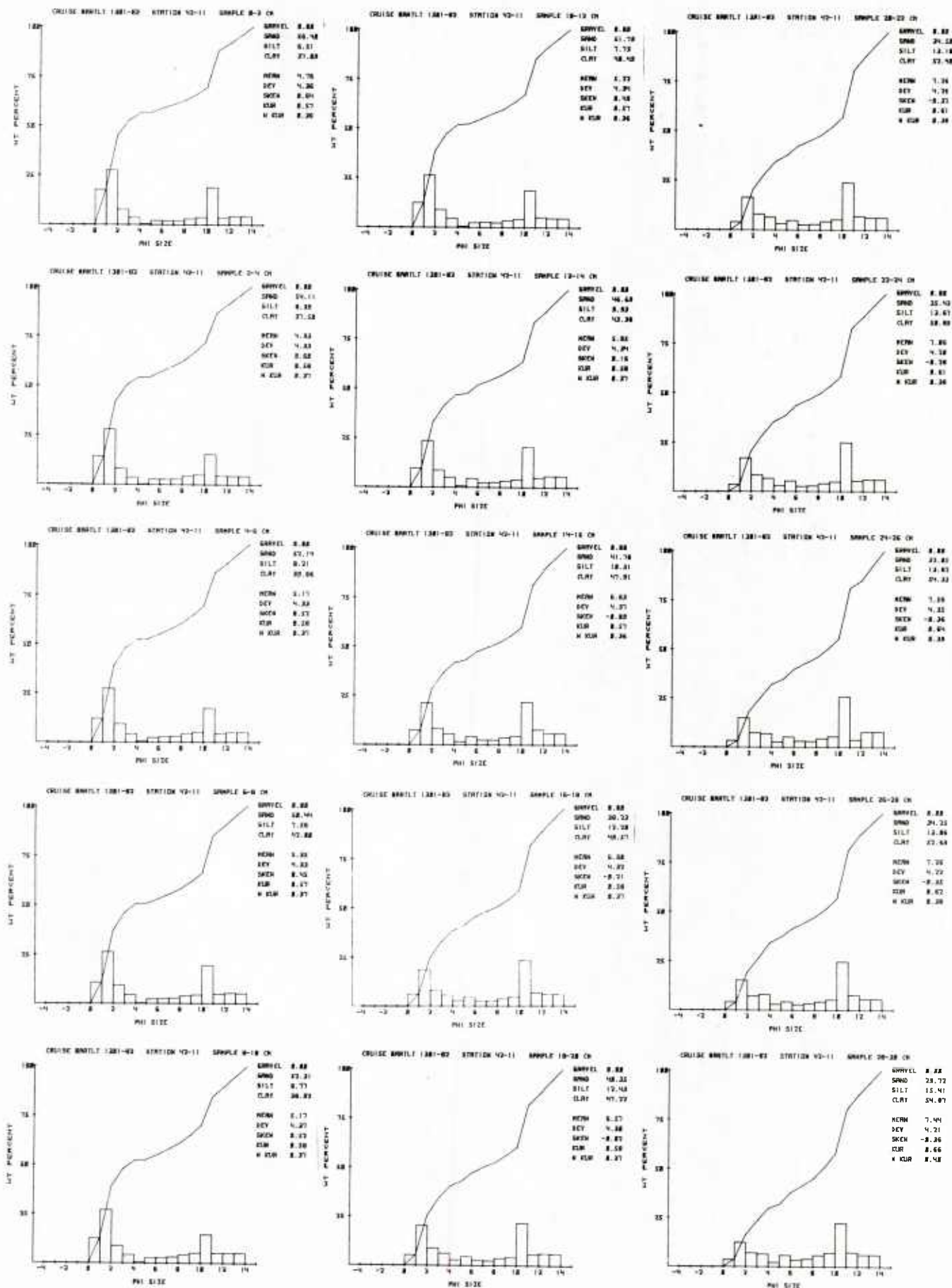


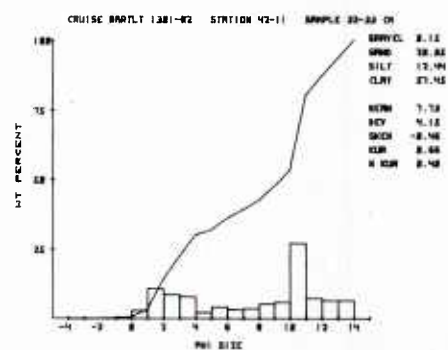
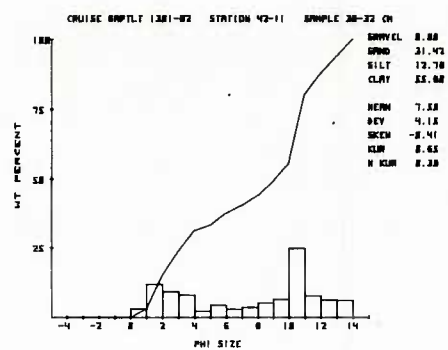


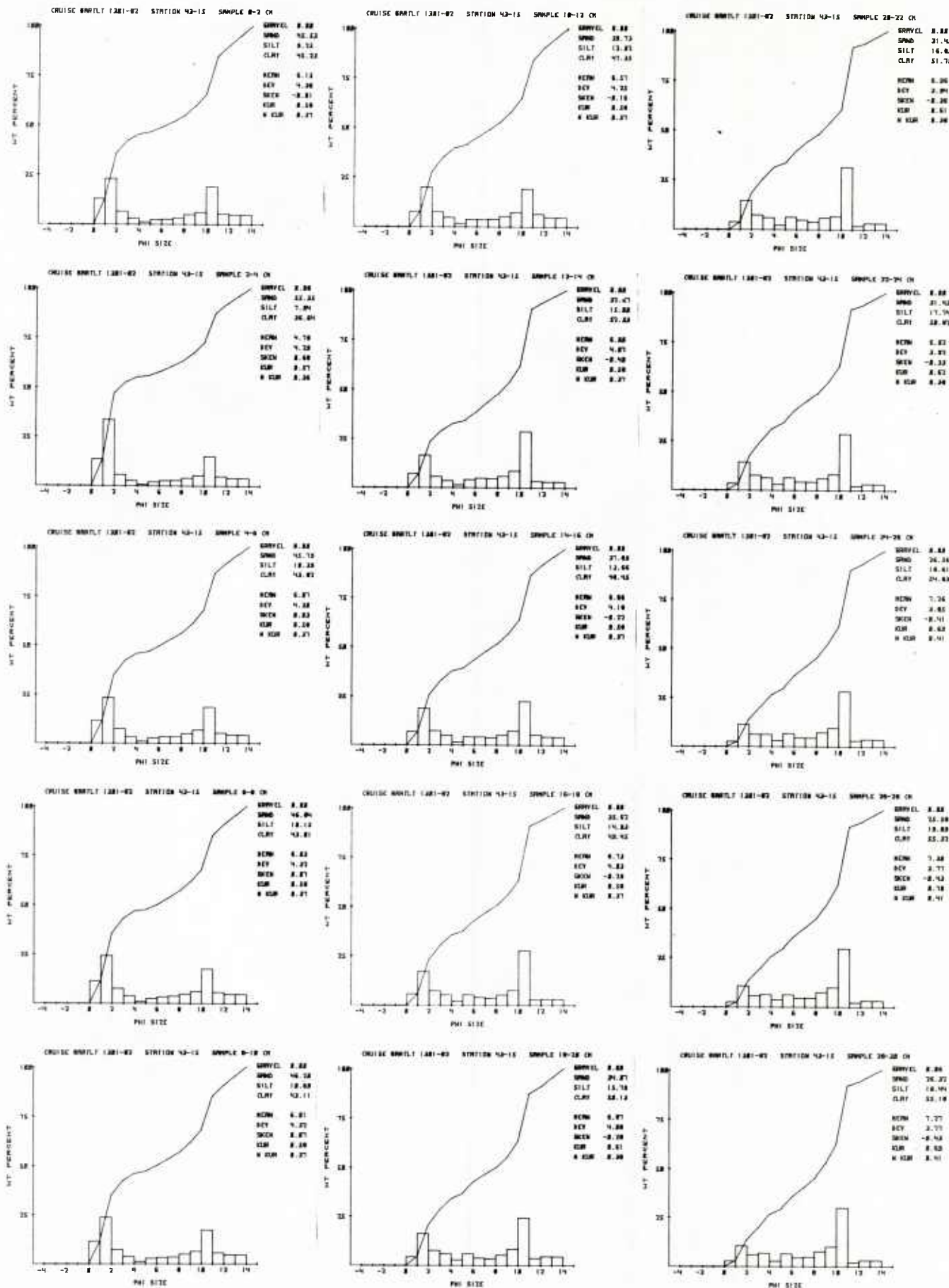


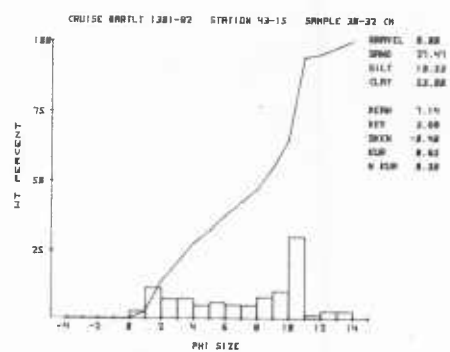


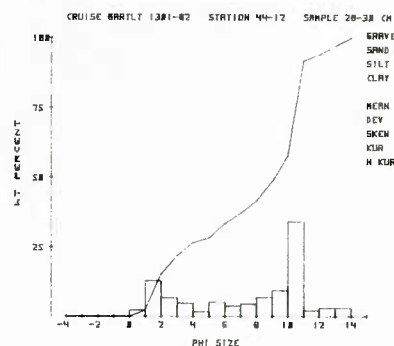
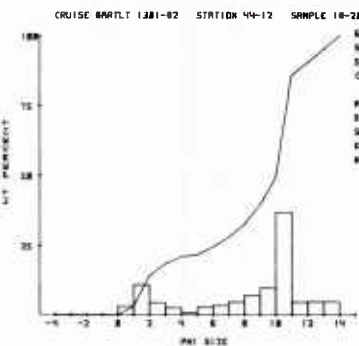
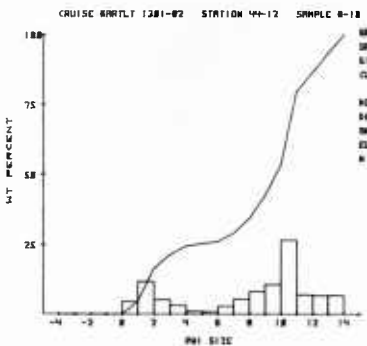
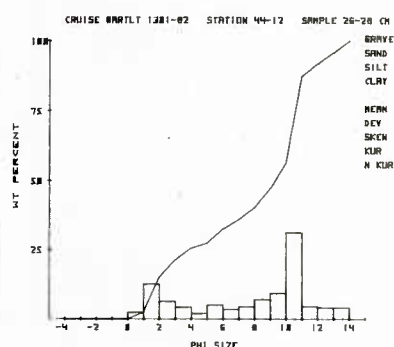
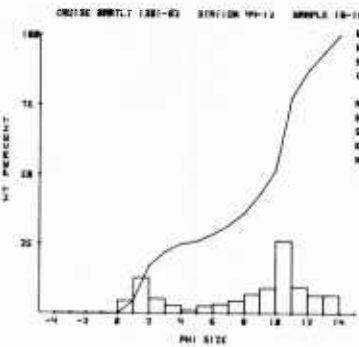
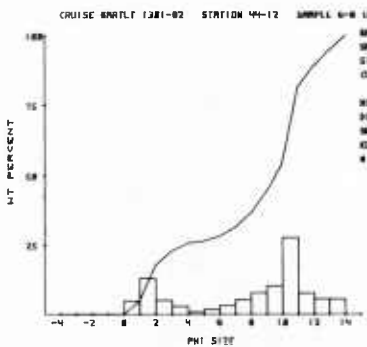
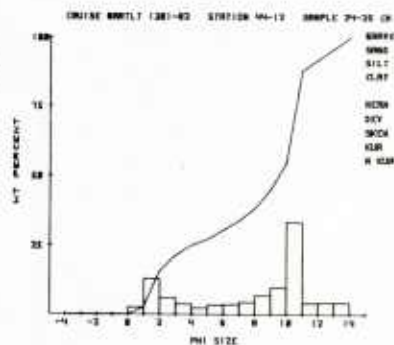
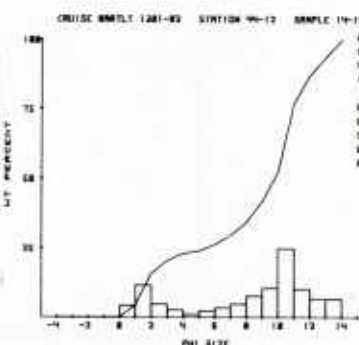
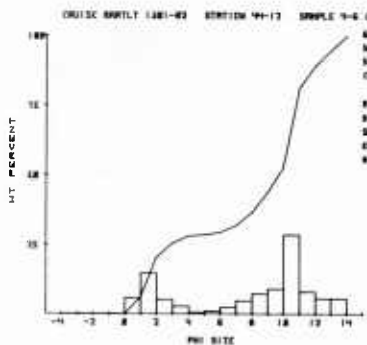
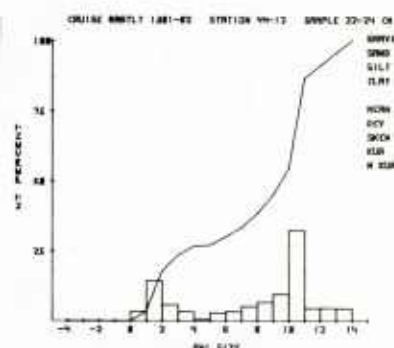
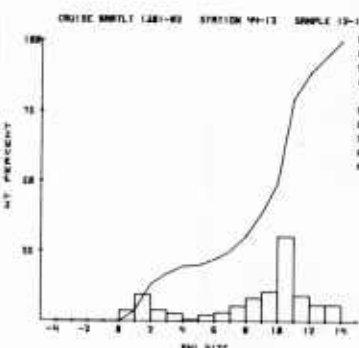
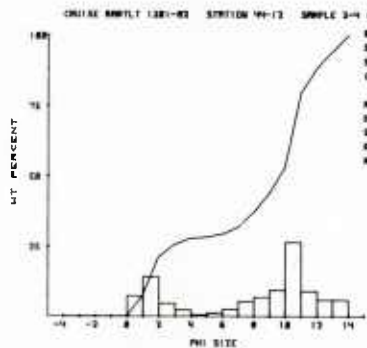
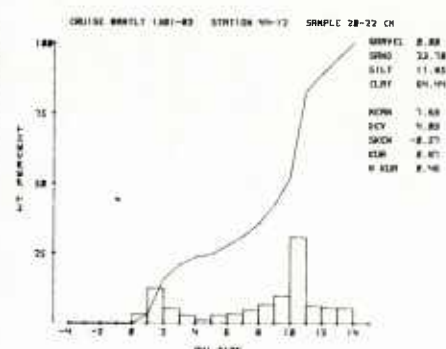
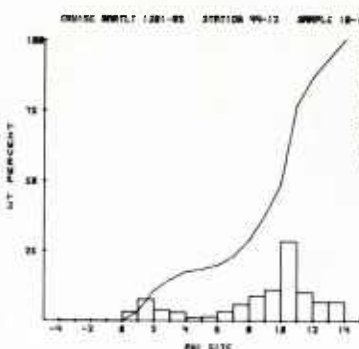
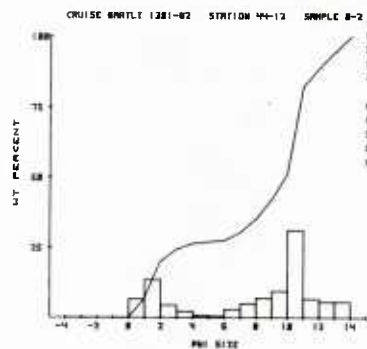


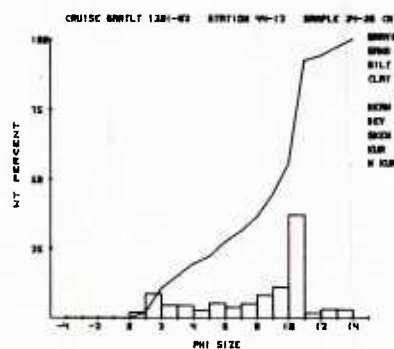
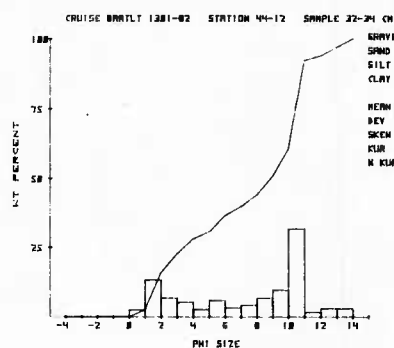
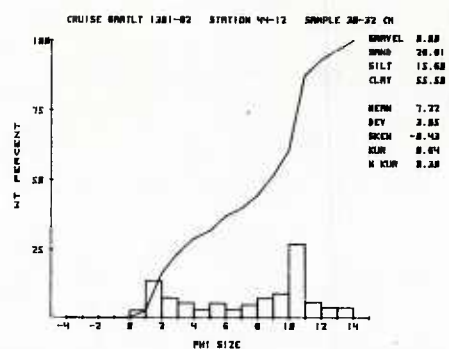


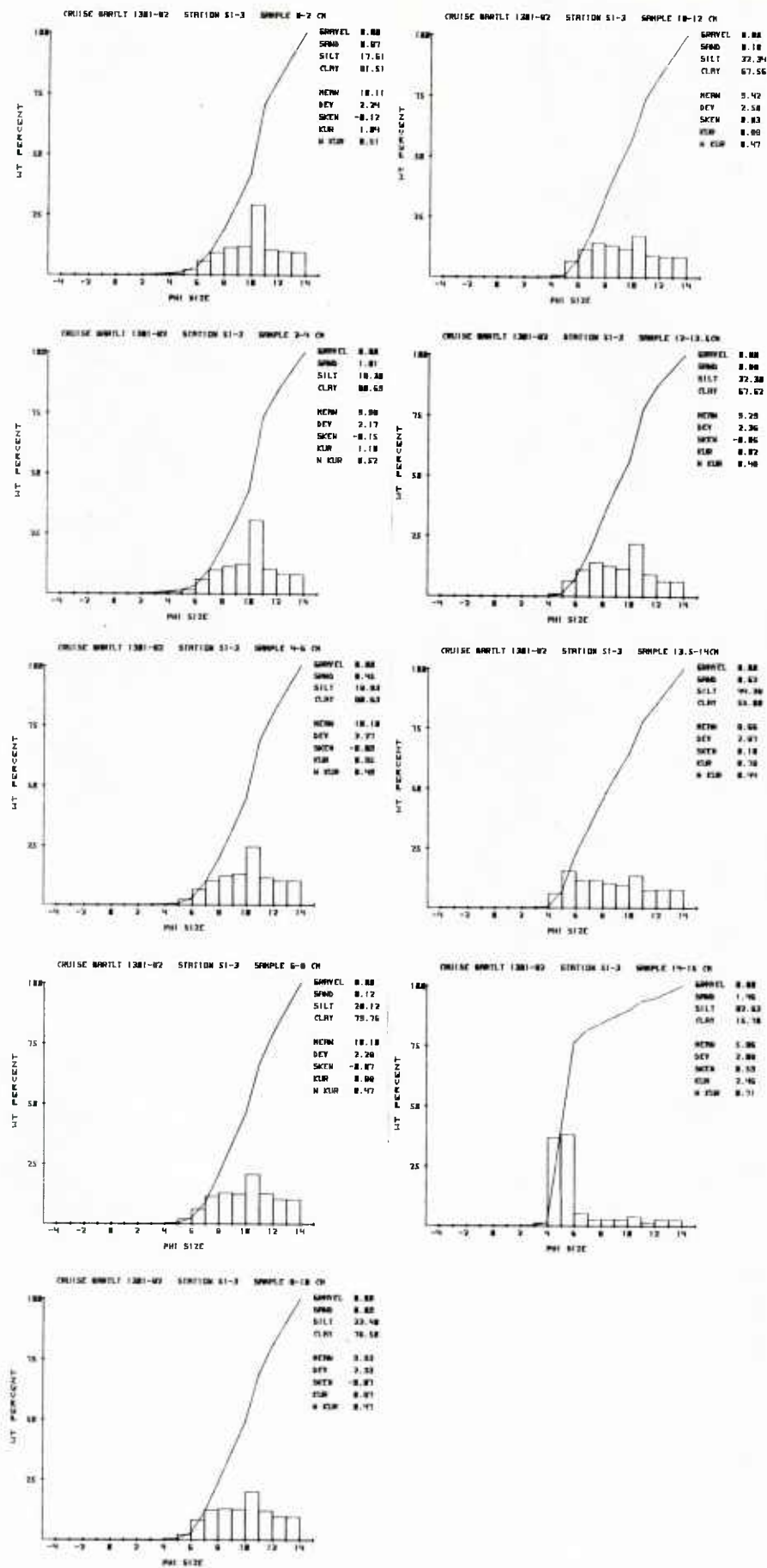


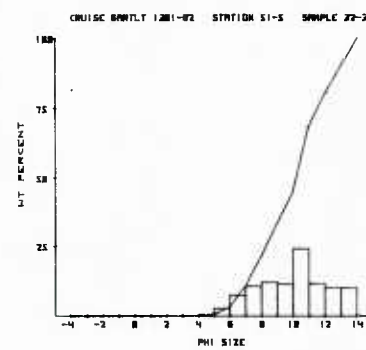
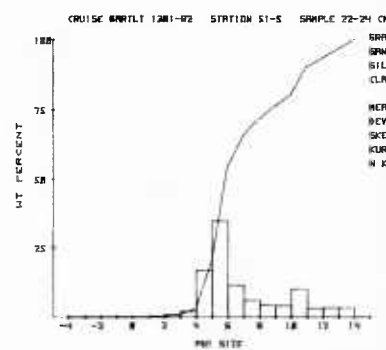
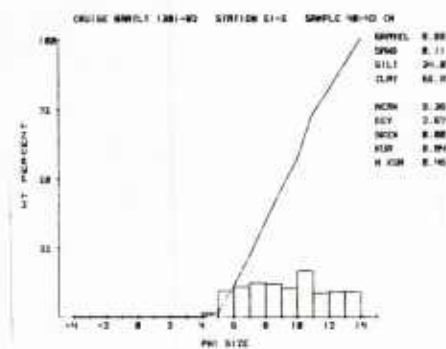
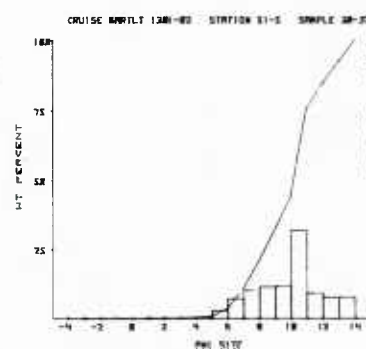
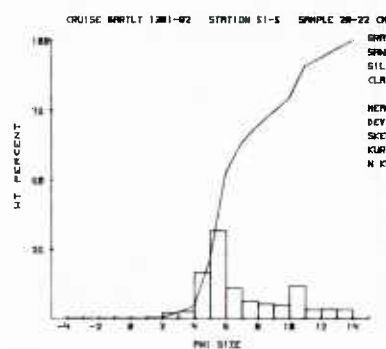
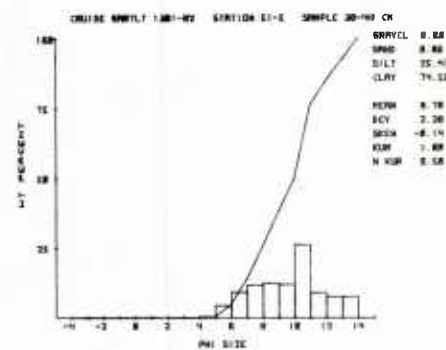
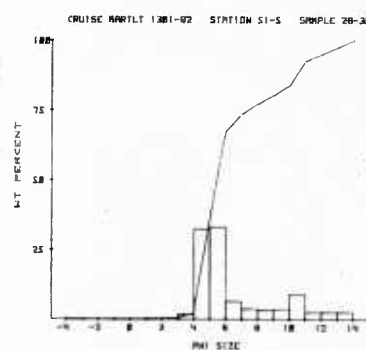
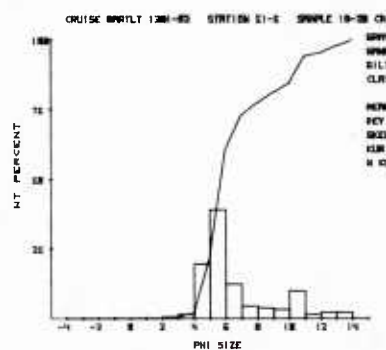
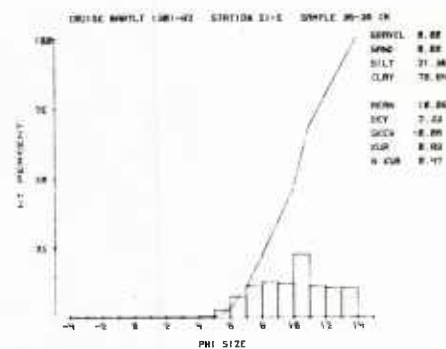
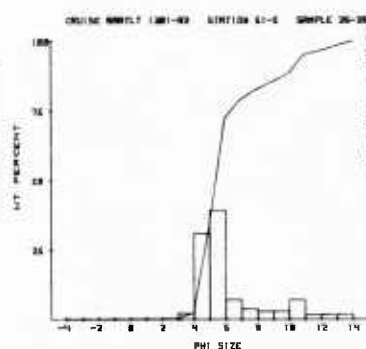
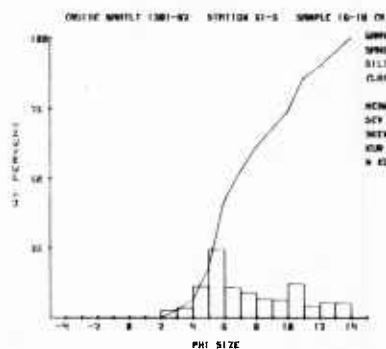
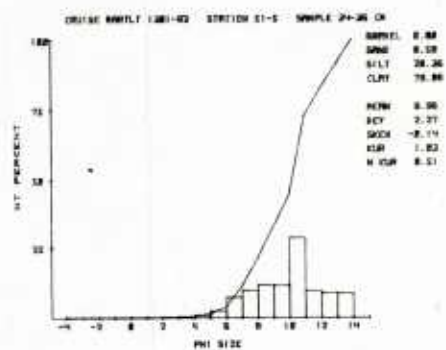
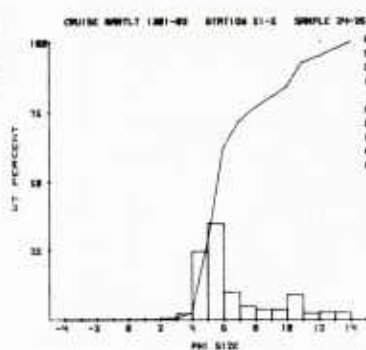
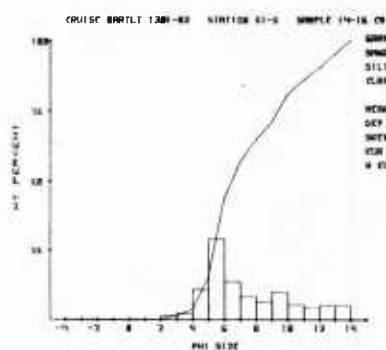


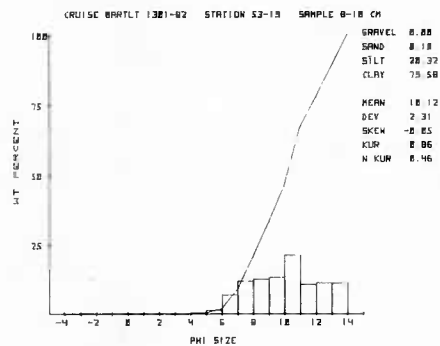
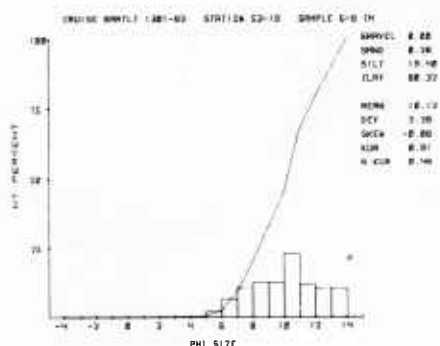
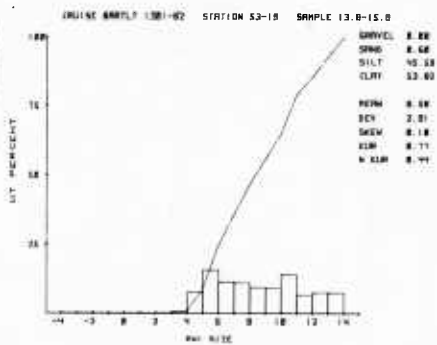
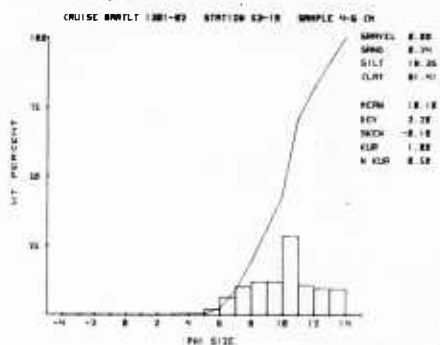
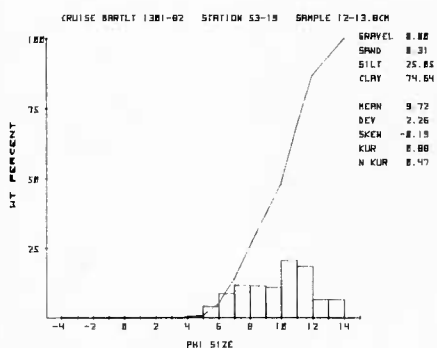
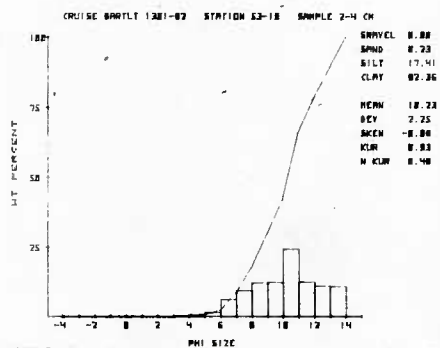
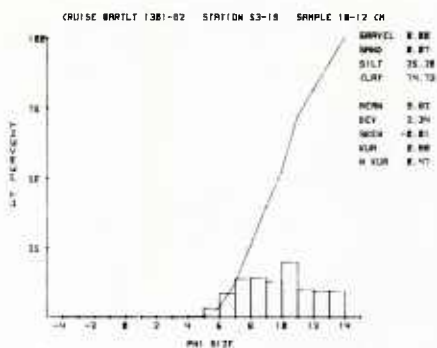
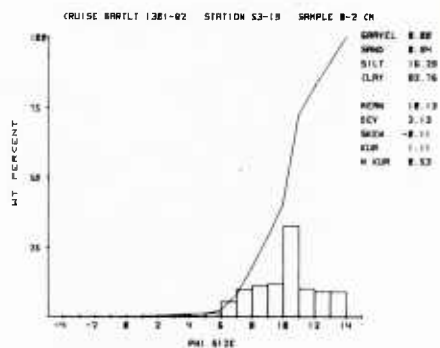


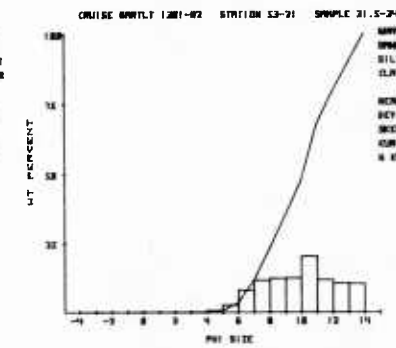
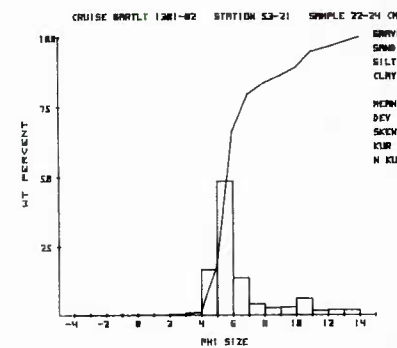
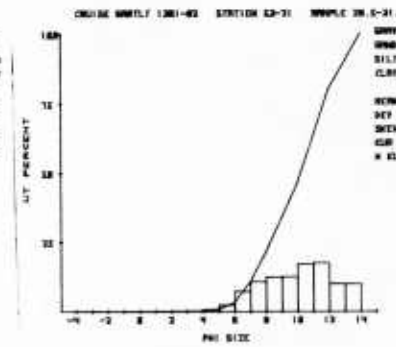
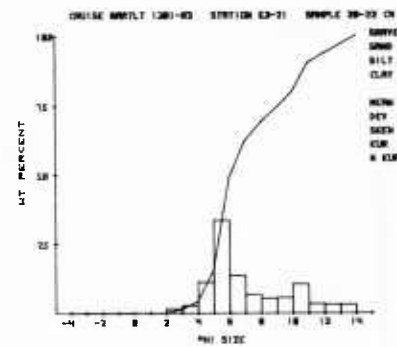
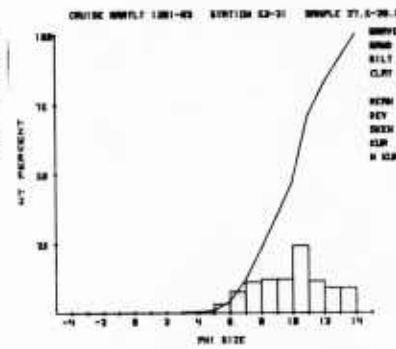
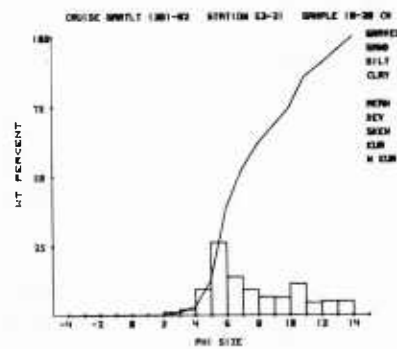
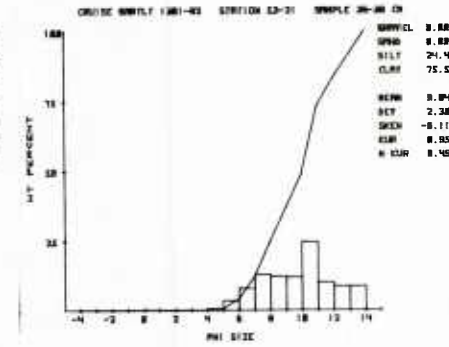
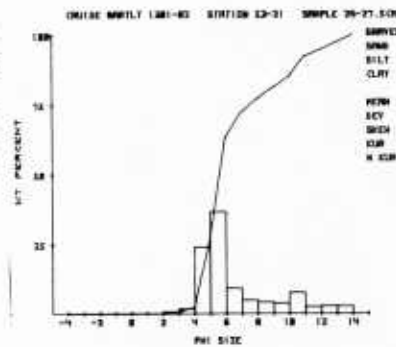
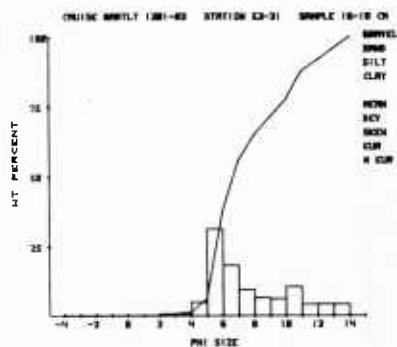
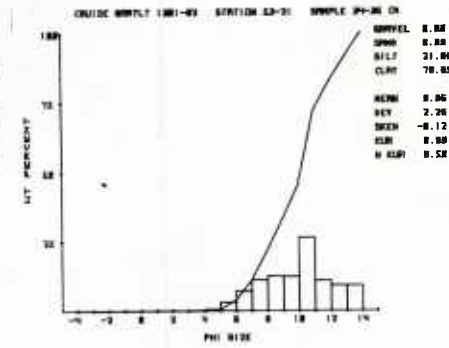
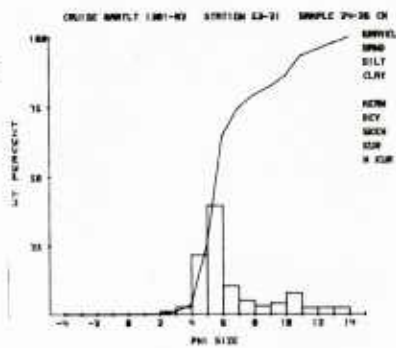
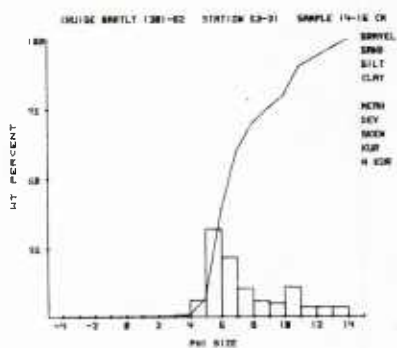


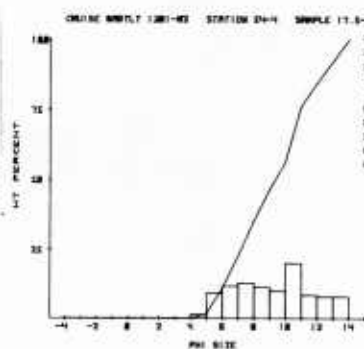
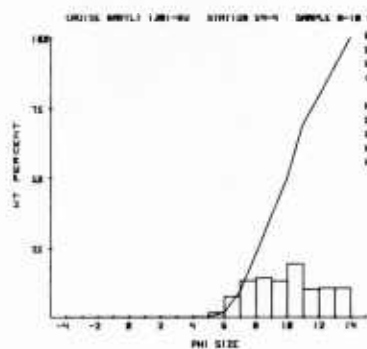
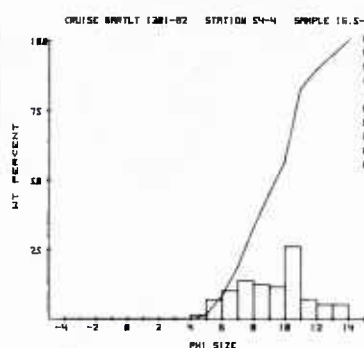
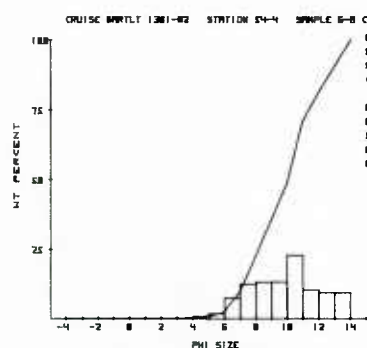
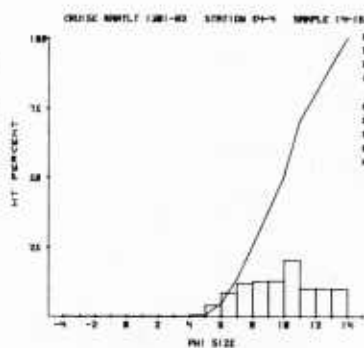
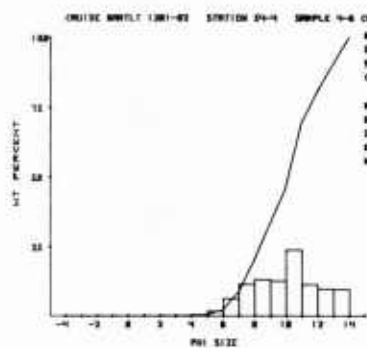
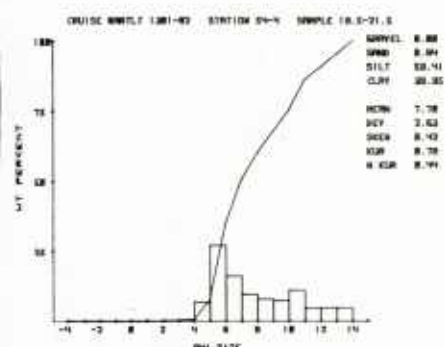
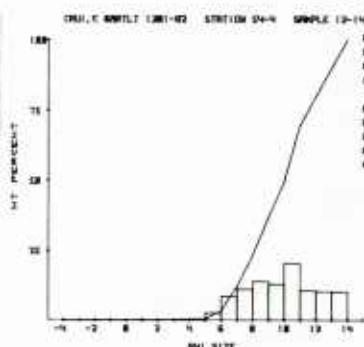
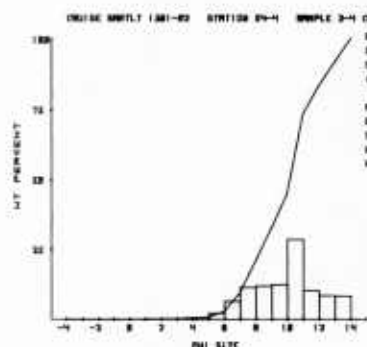
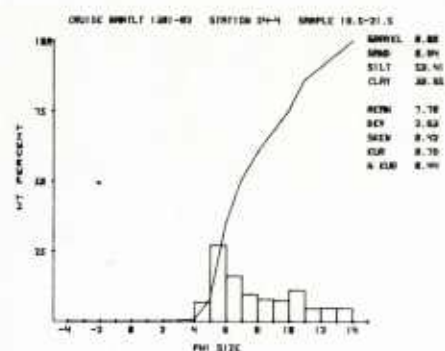
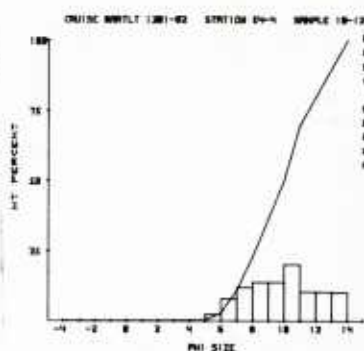
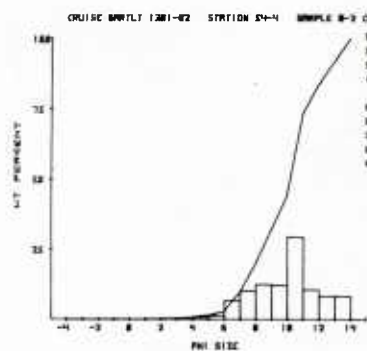


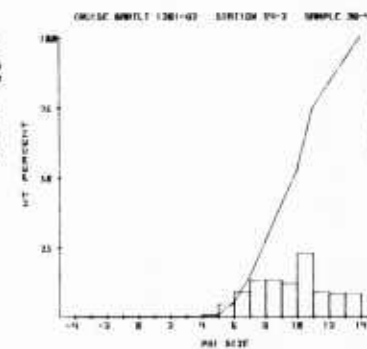
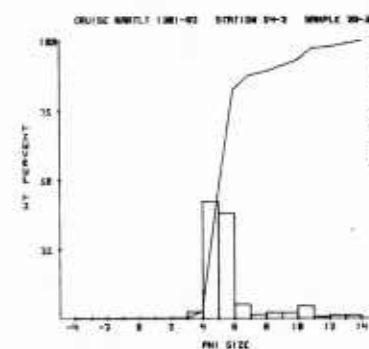
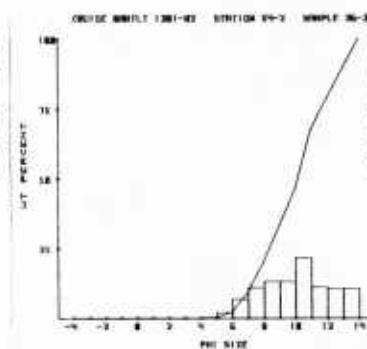
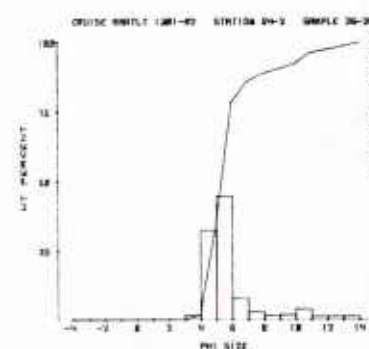
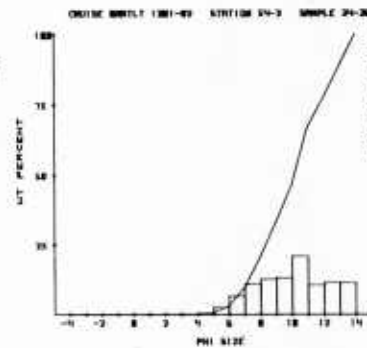
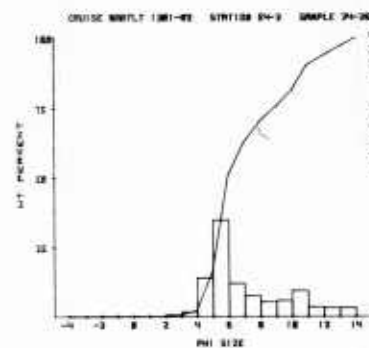
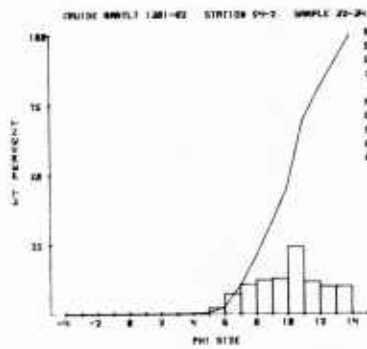
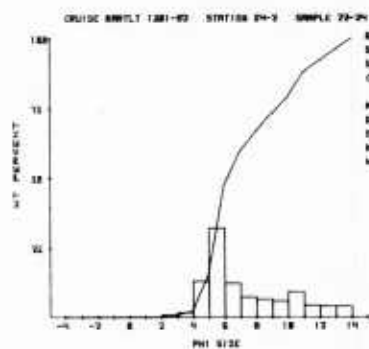
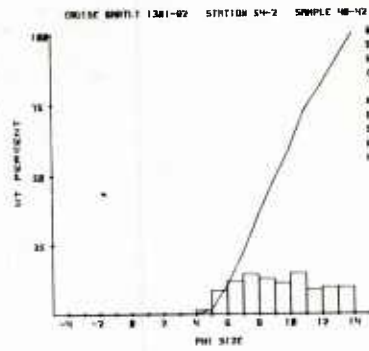
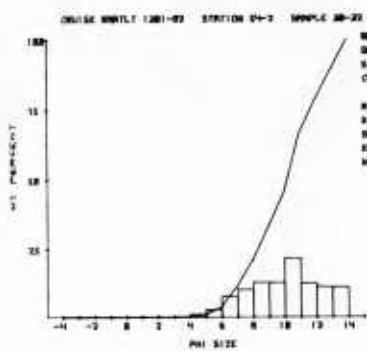
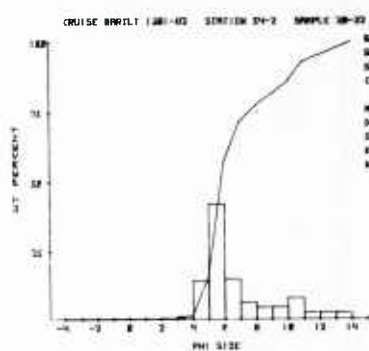


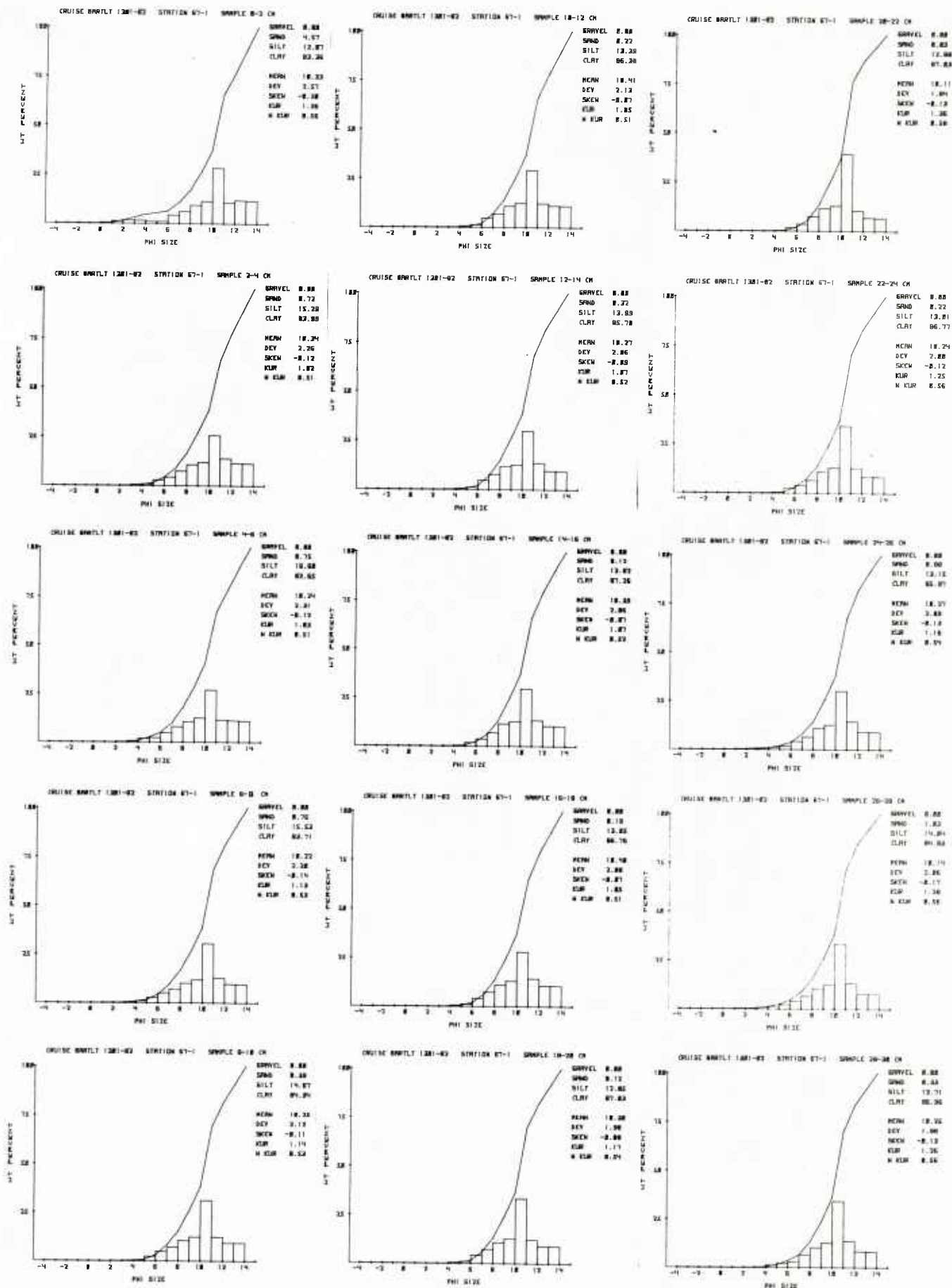


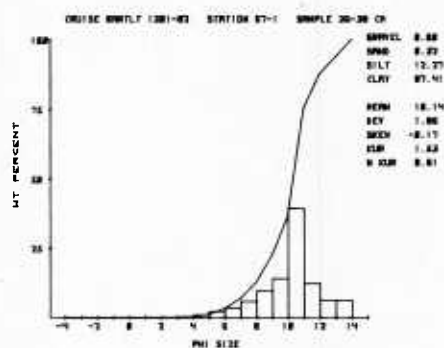
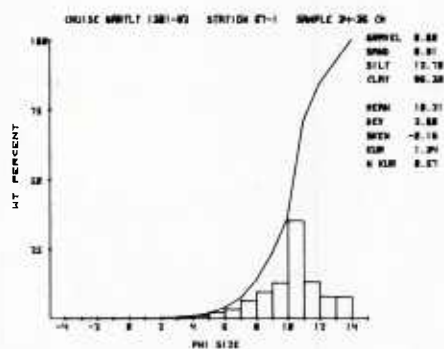
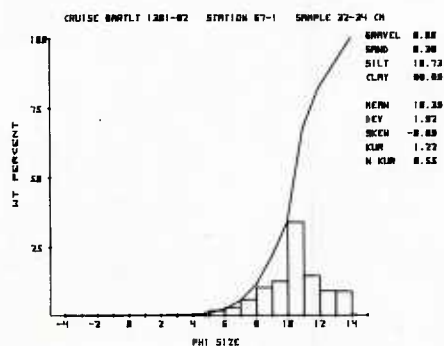
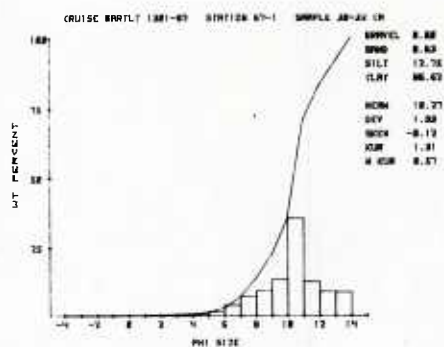


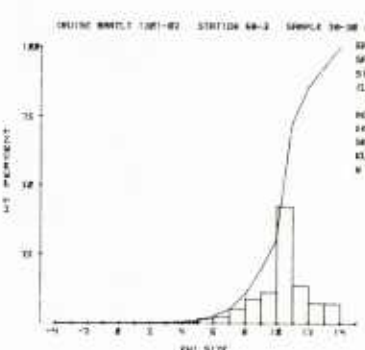
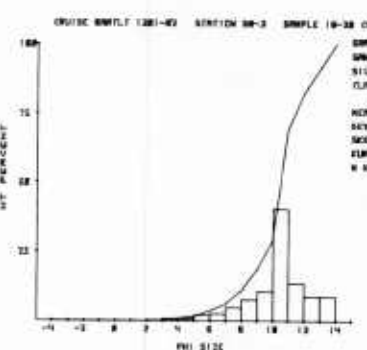
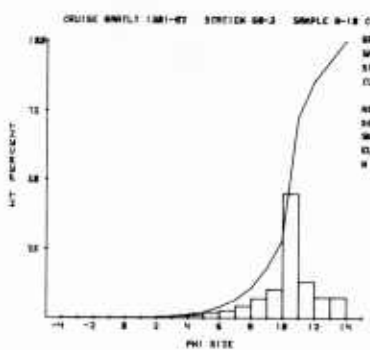
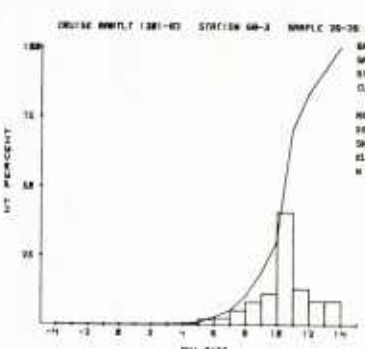
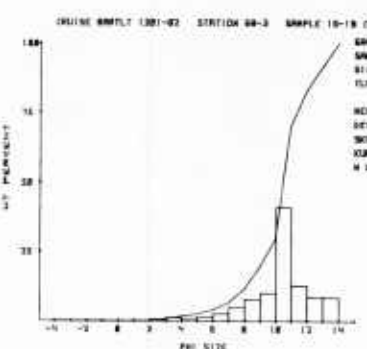
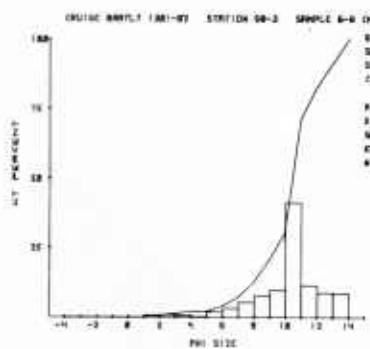
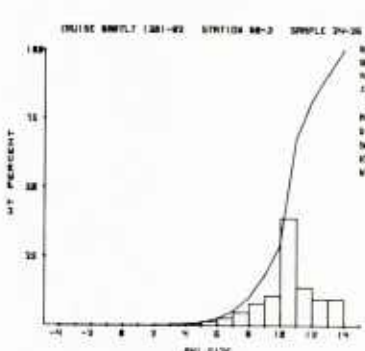
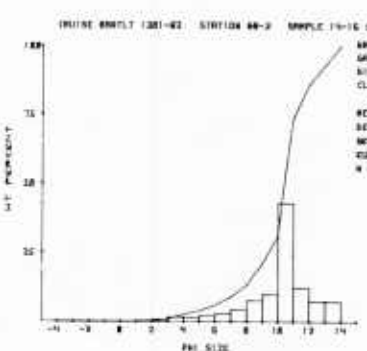
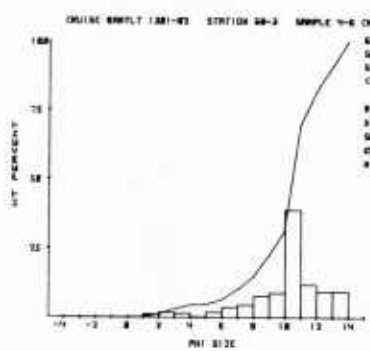
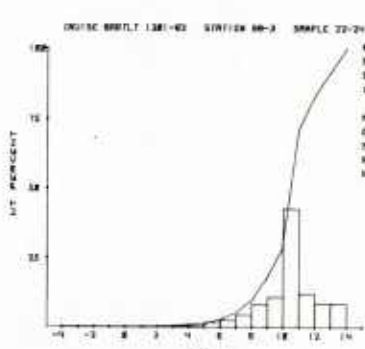
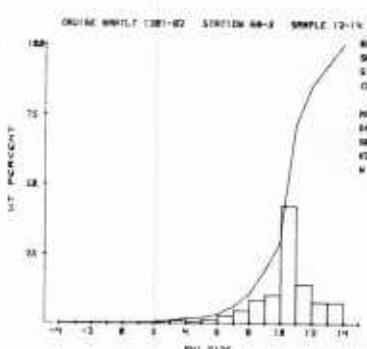
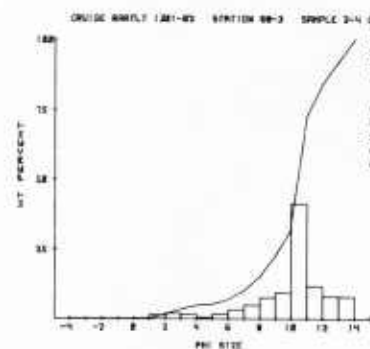
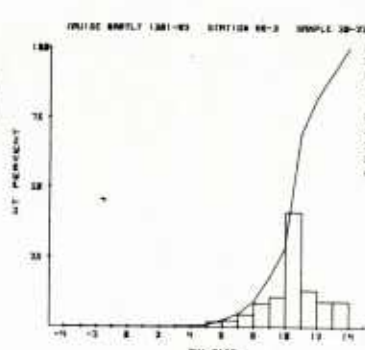
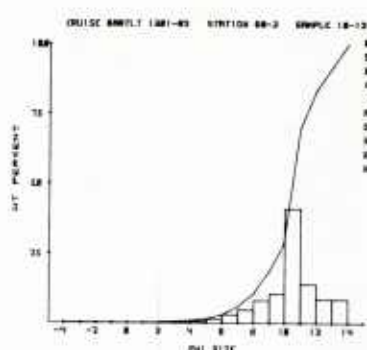
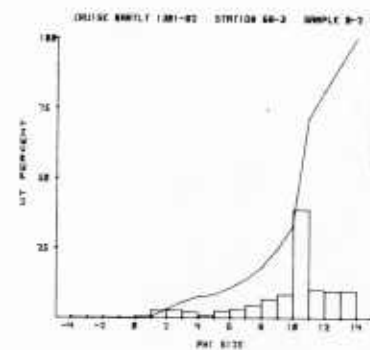


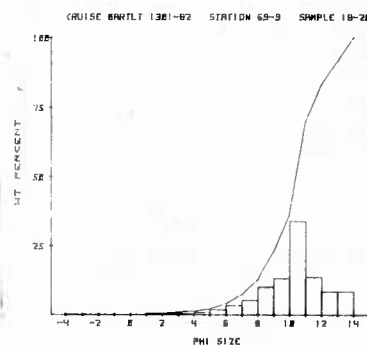
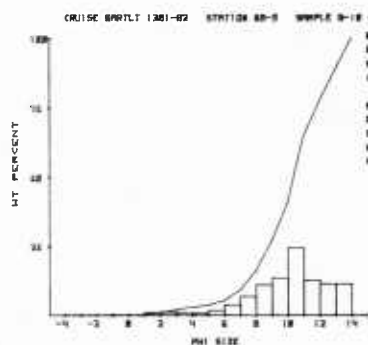
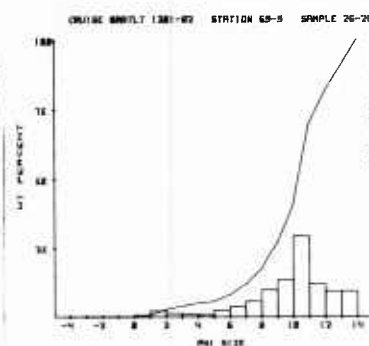
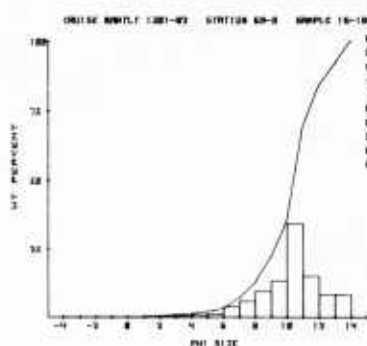
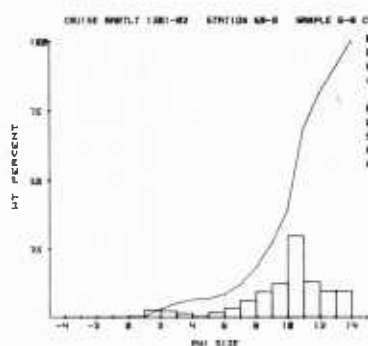
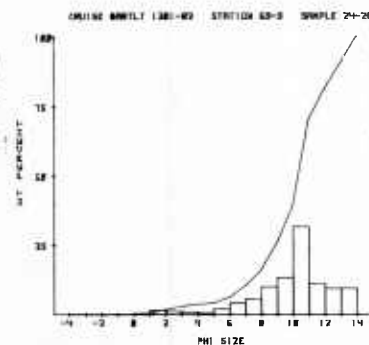
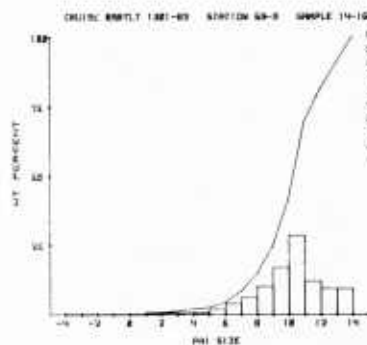
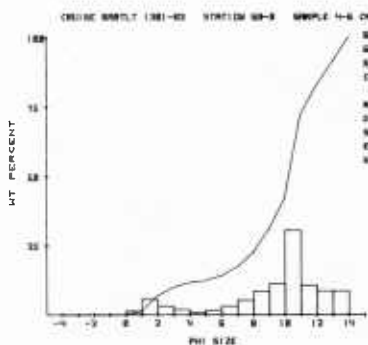
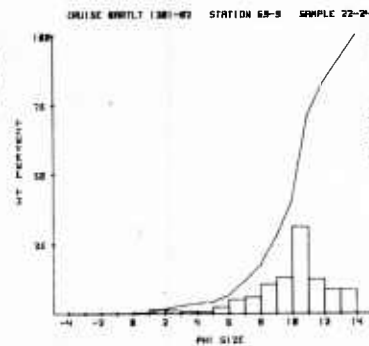
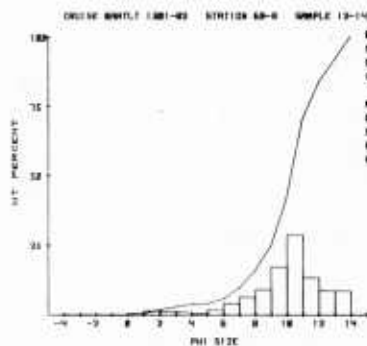
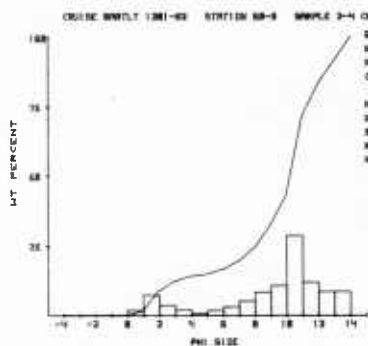
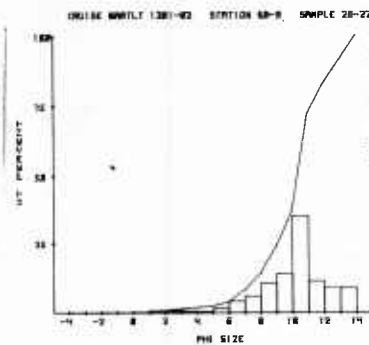
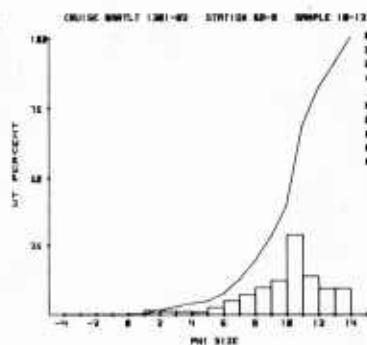
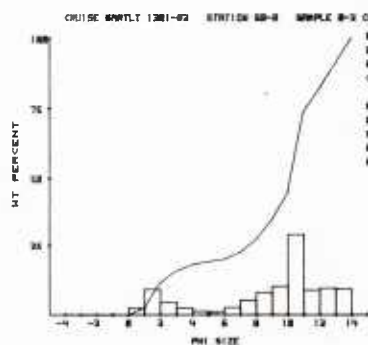


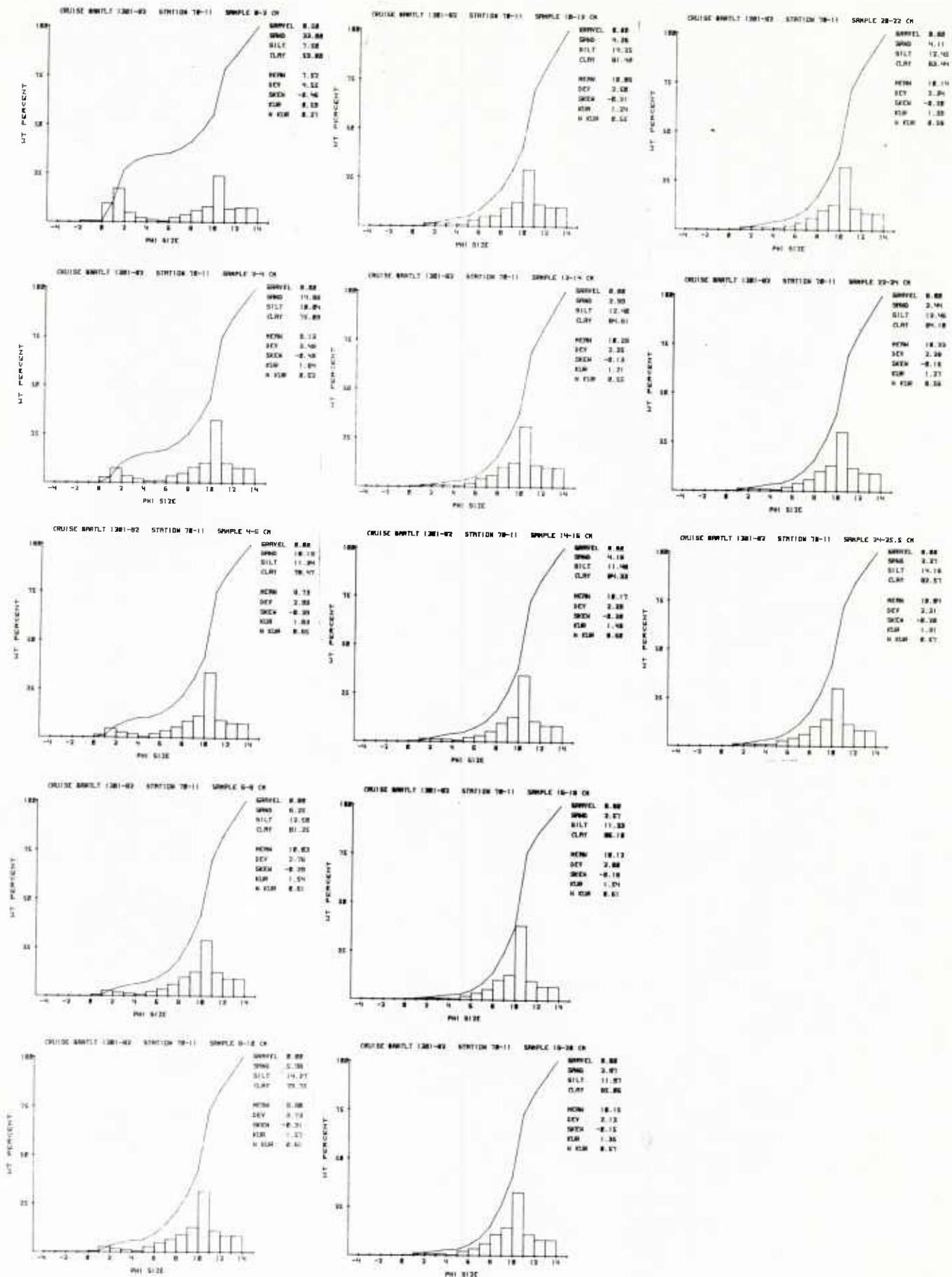


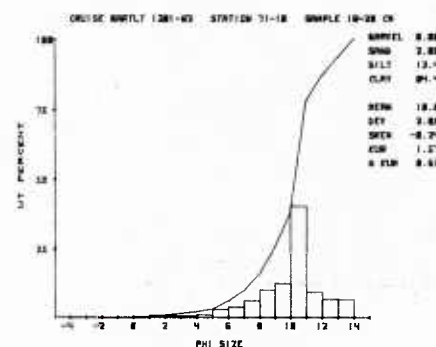
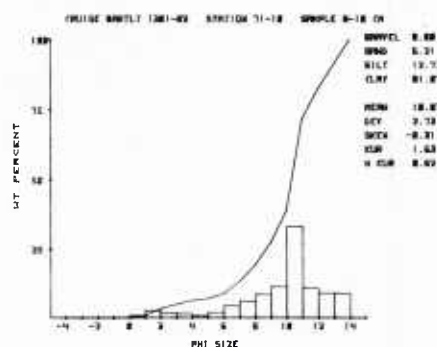
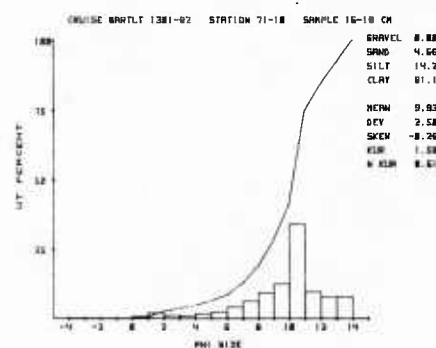
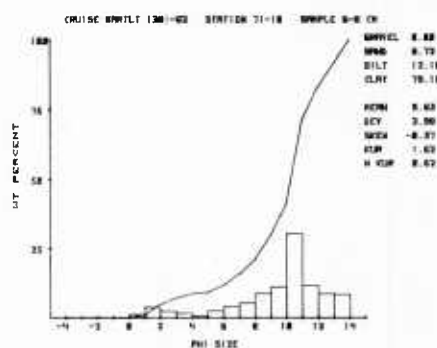
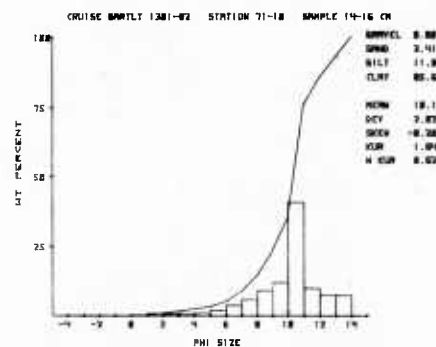
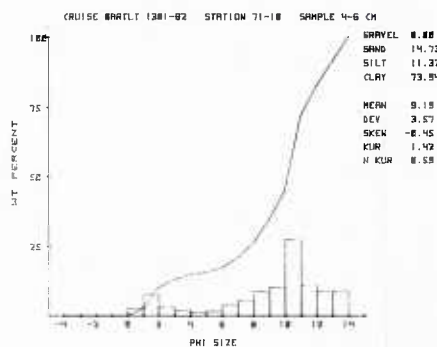
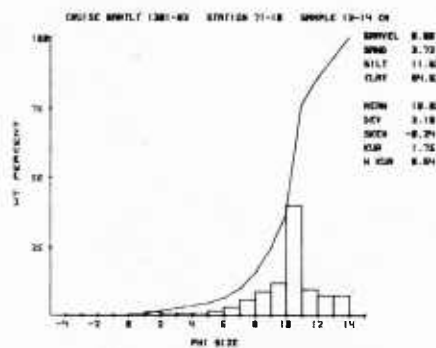
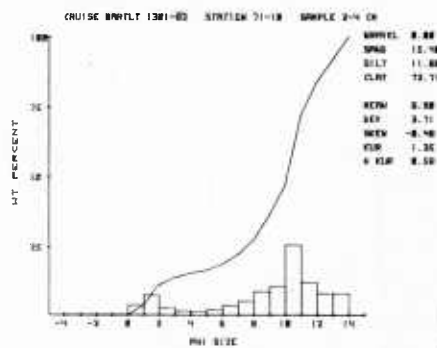
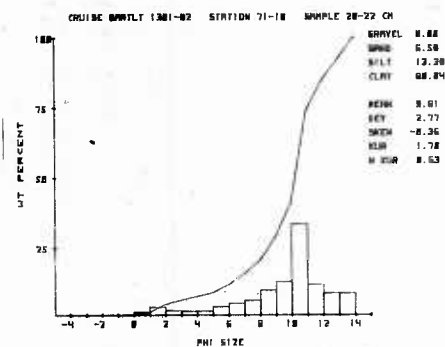
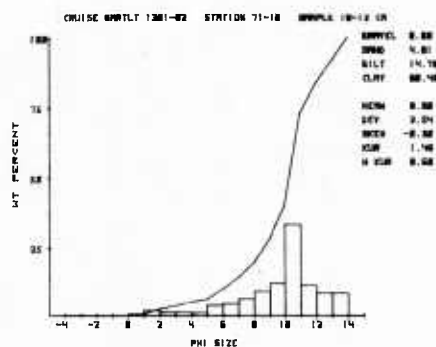
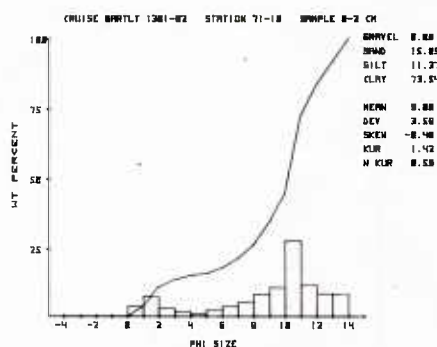


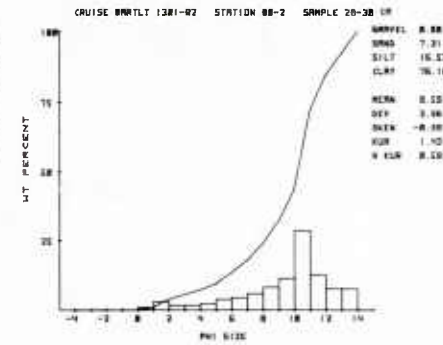
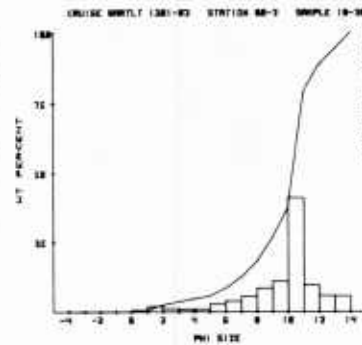
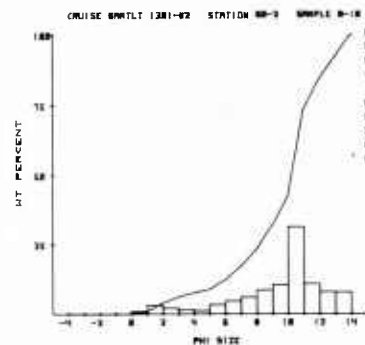
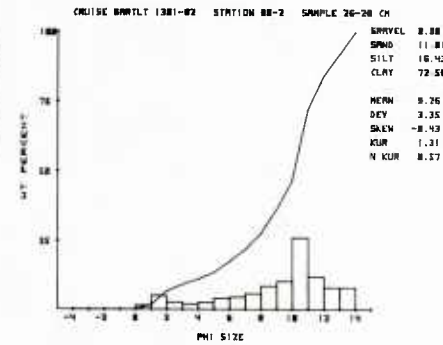
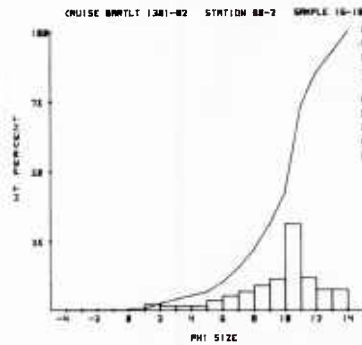
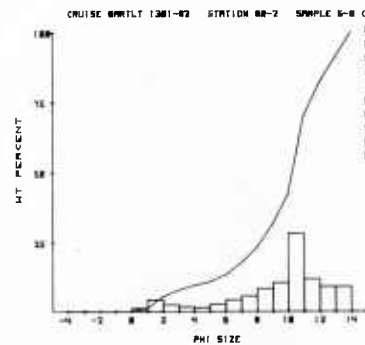
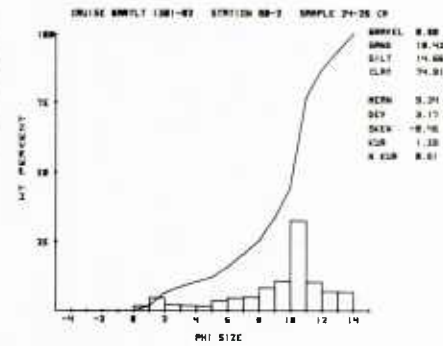
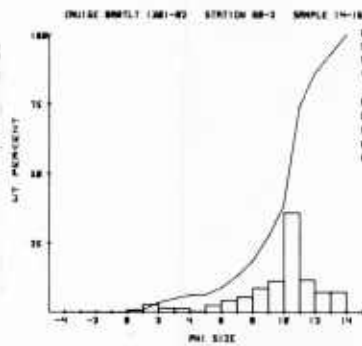
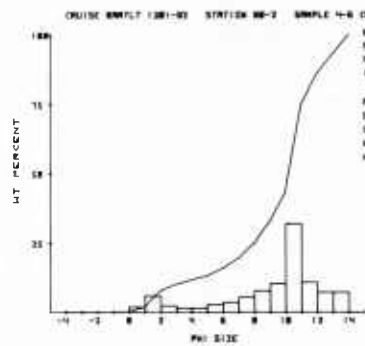
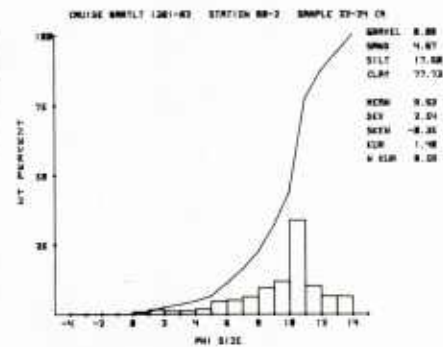
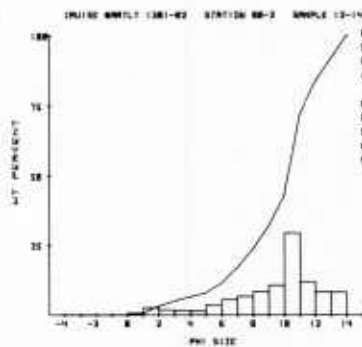
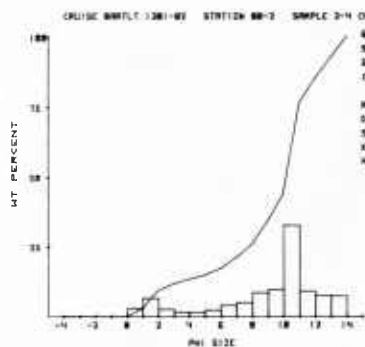
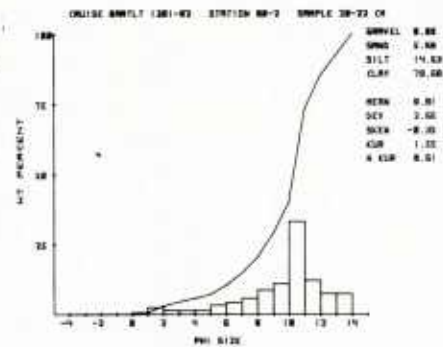
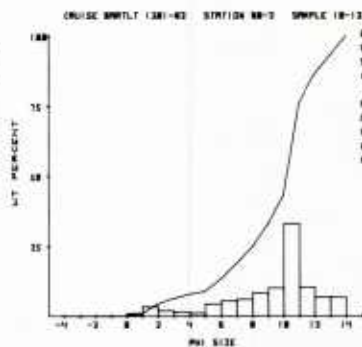
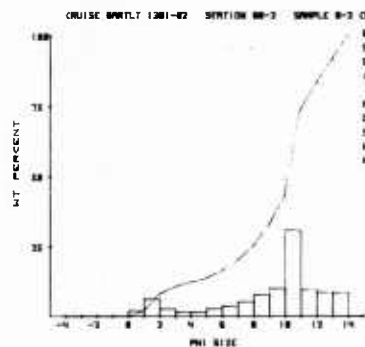


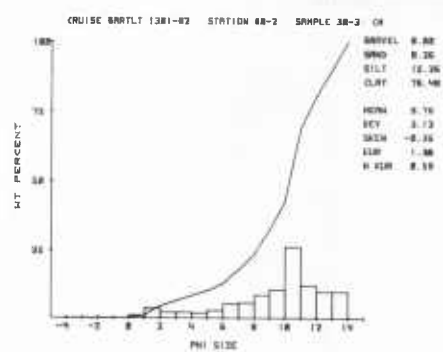








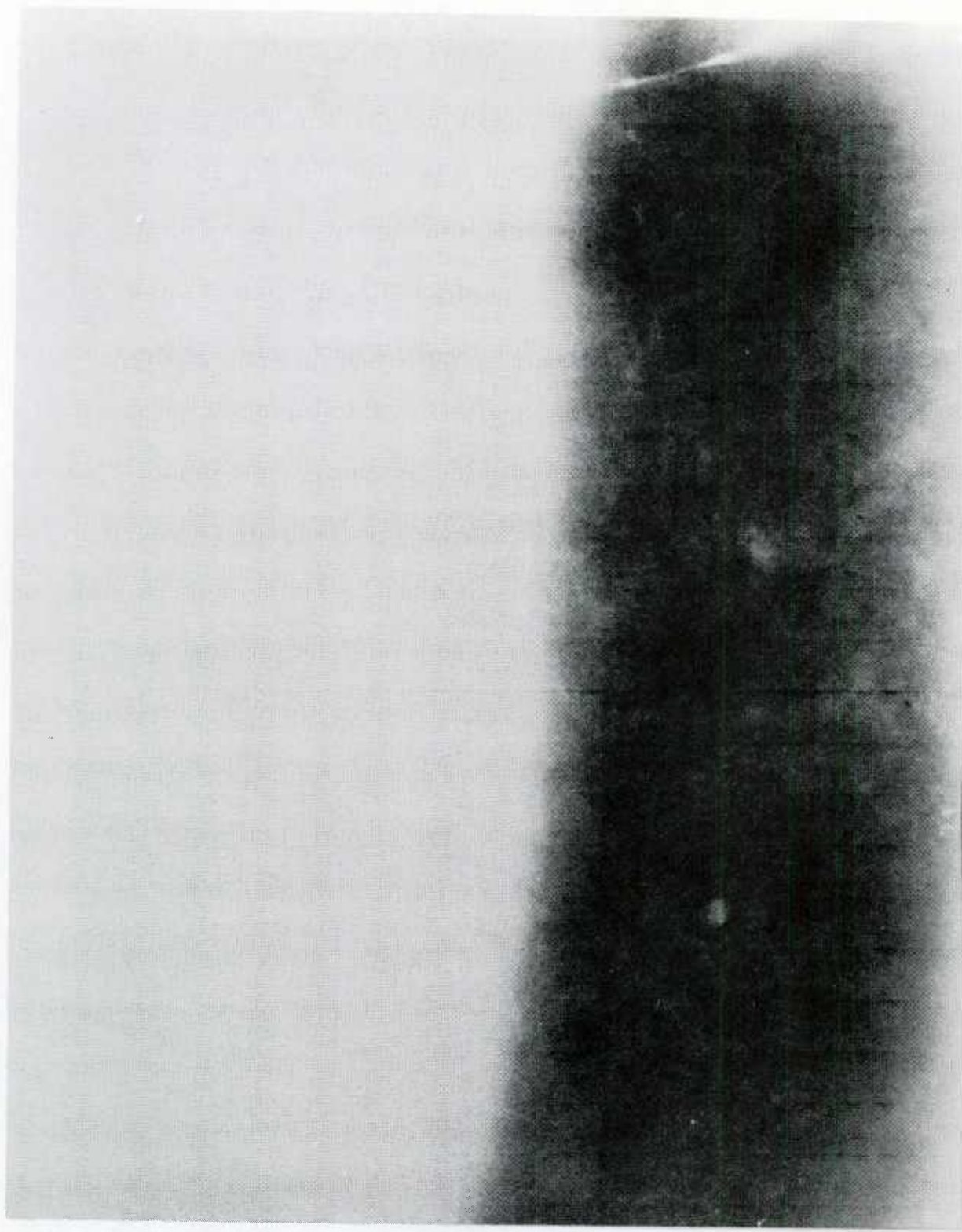


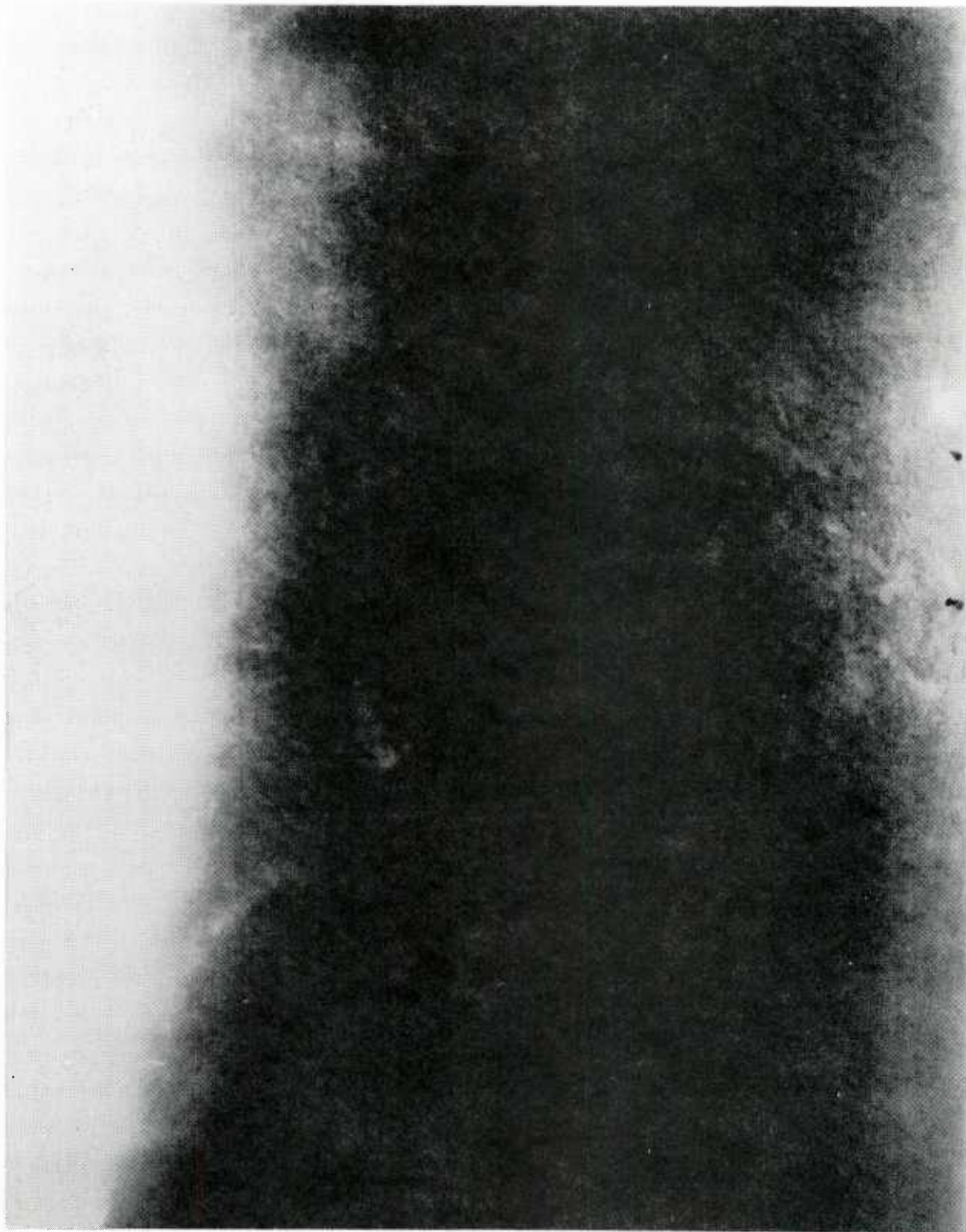


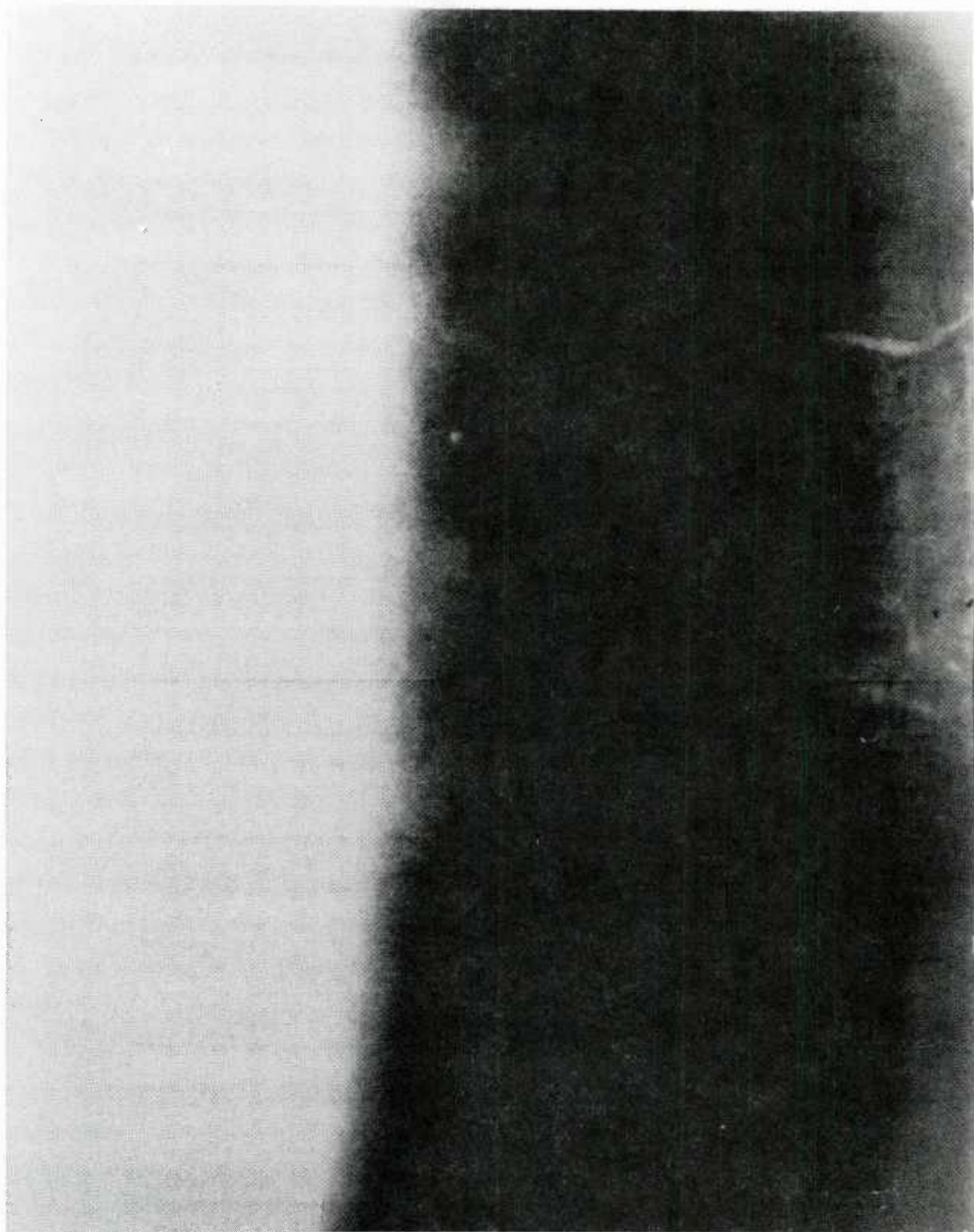
APPENDIX C
X-RADIOGRAPHS OF SEDIMENTS COLLECTED
FROM THE VENEZUELA BASIN

X-radiographs of sediments collected with X-ray boxes from intact box cores are presented. X-radiographs depict sedimentary/biological structure from eight stations and include X-radiographs from all three locations. Images are "positives" produced from the developed X-ray transparency and thus darker areas of the X-radiograph denote areas of greater sediment density.

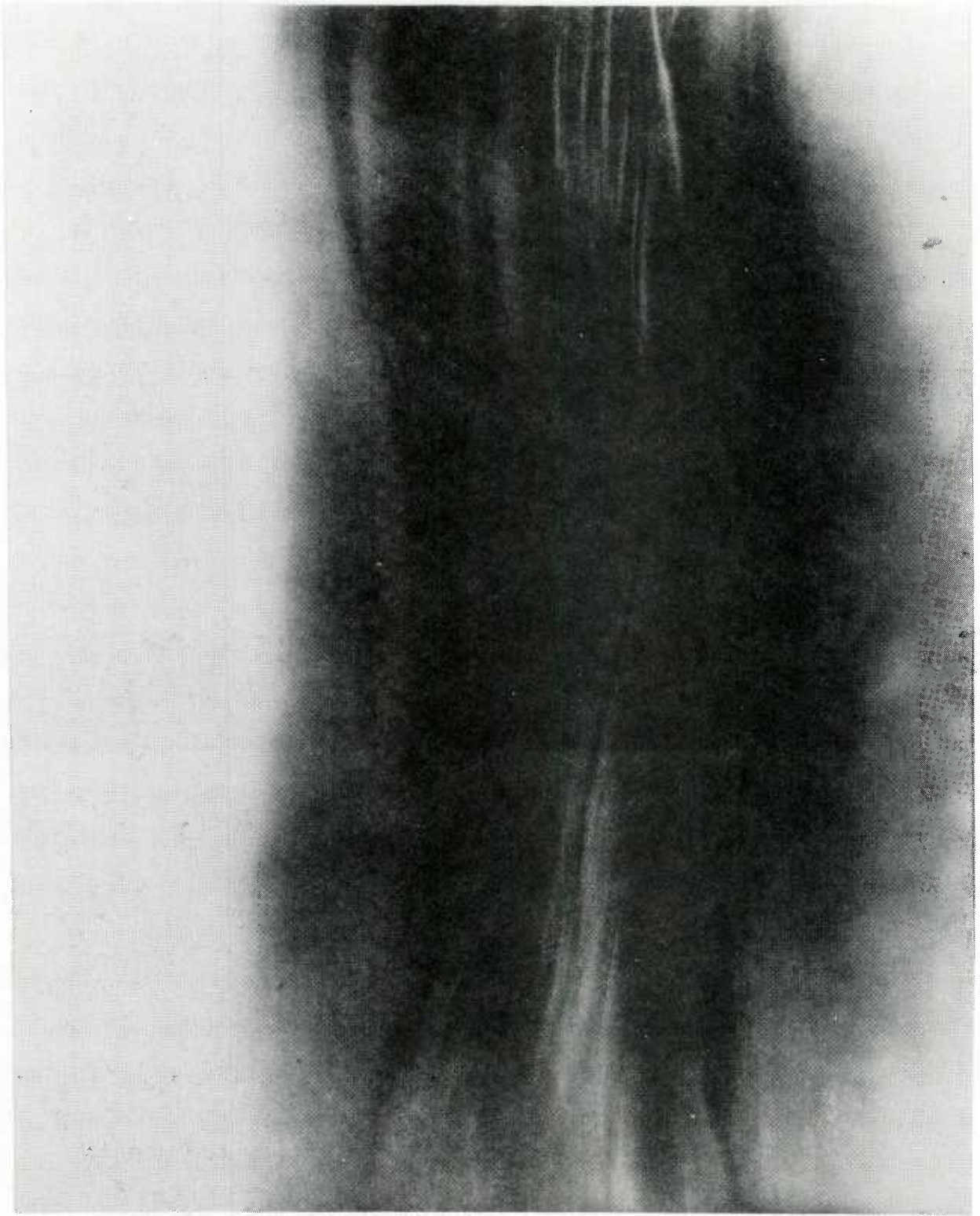
<u>X-radiograph</u>	<u>Station</u>	<u>Location</u>	<u>Page</u>
15	22	1	234
16	22	1	235
17	26	1	236
18	30	1	237
19	30	1	238
20	51	2	239
21	51	2	240
22	51	2	241
23	54	2	242
24	54	2	243
25	54	2	244
26	74	3	245
27	74	3	246
28	74	3	247
29	77	3	248
30	77	3	249
31	80	3	250
32	80	3	251

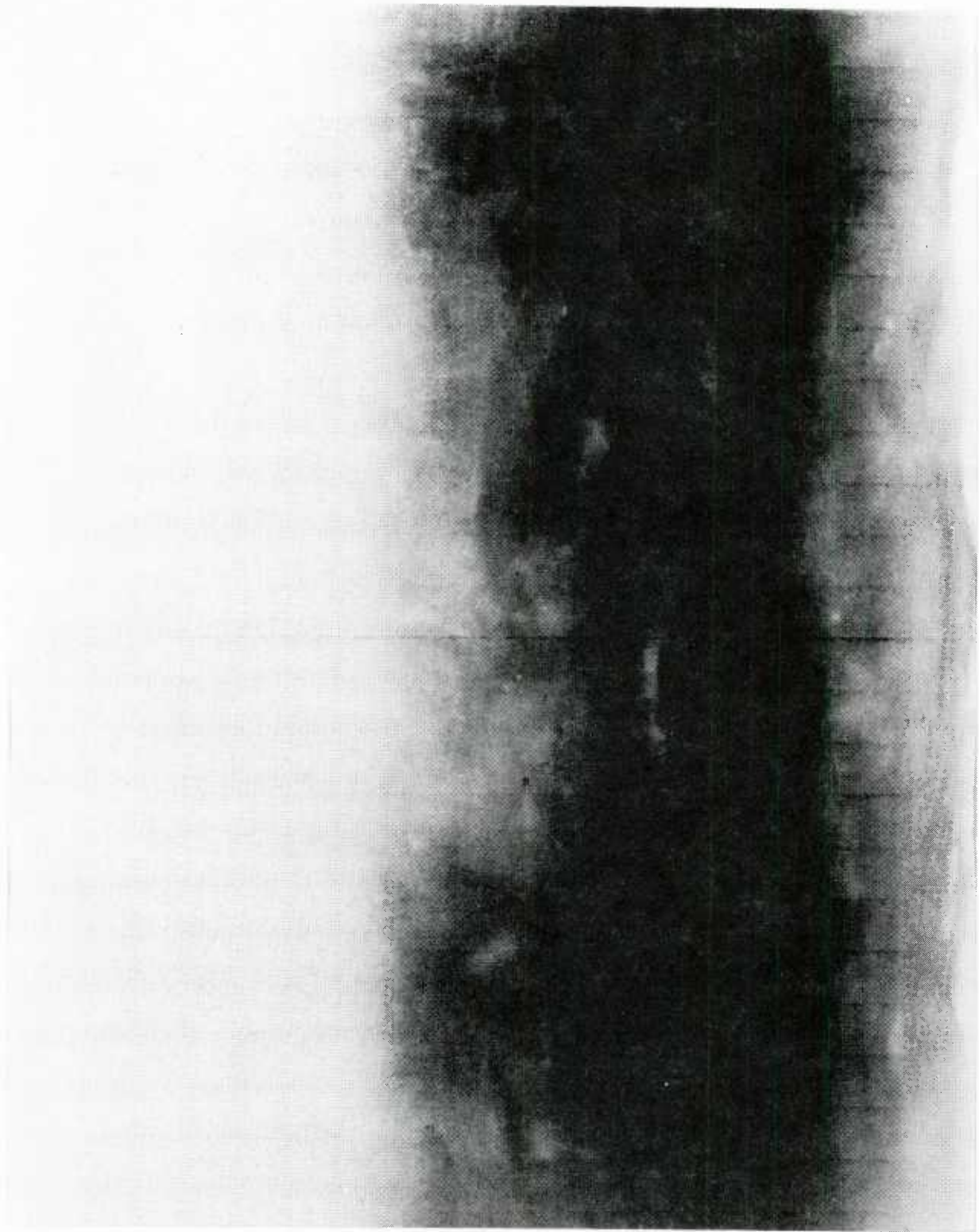




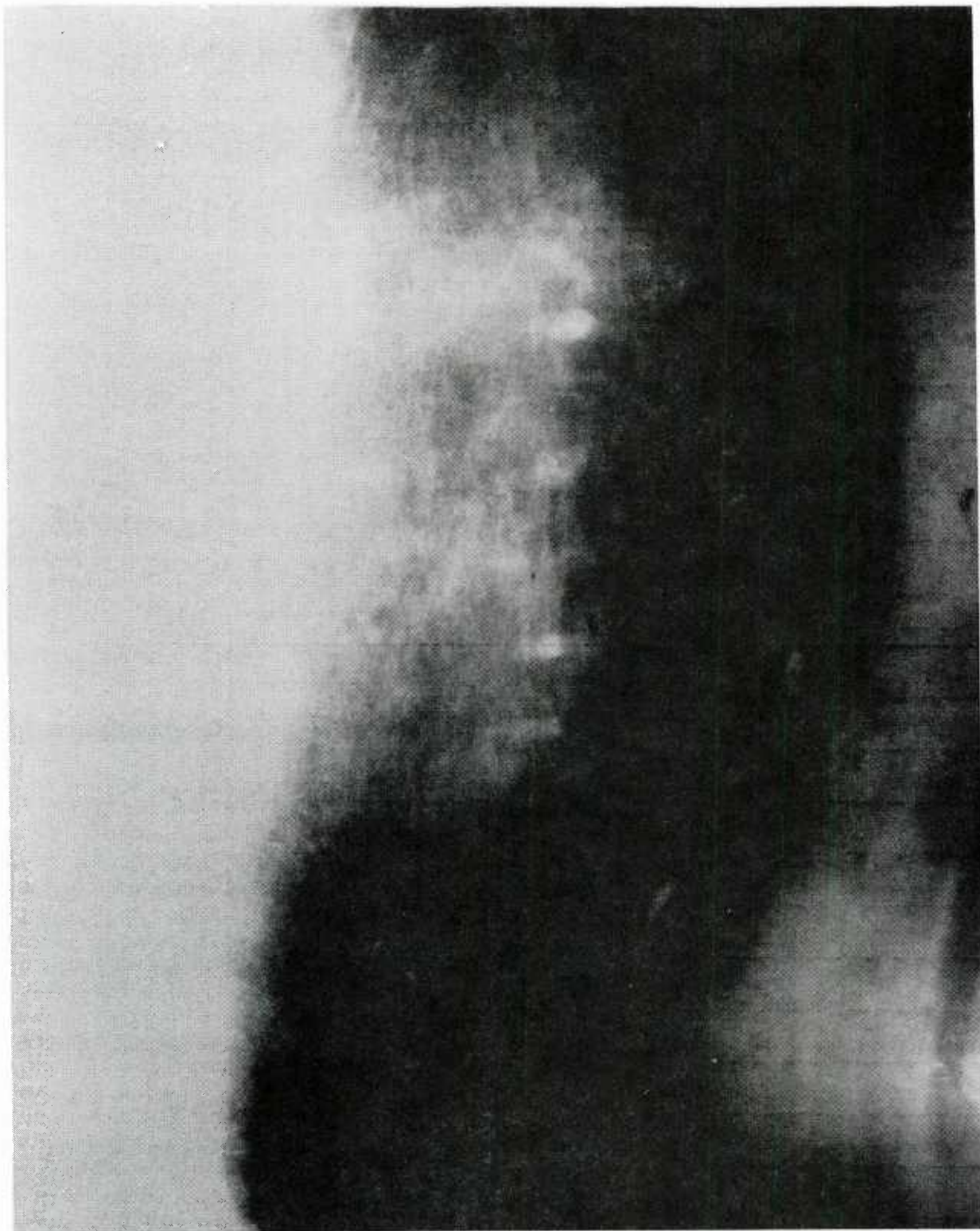


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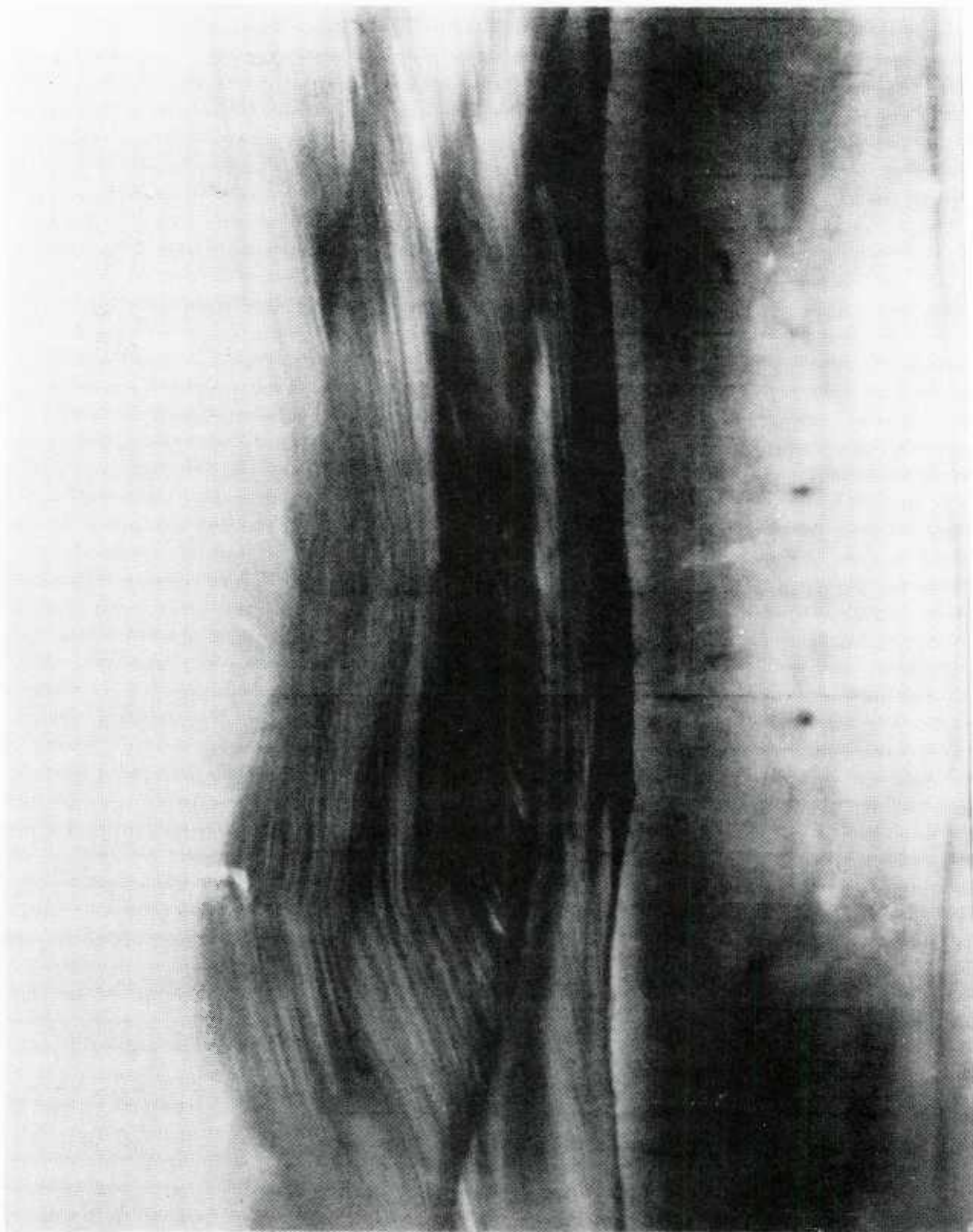




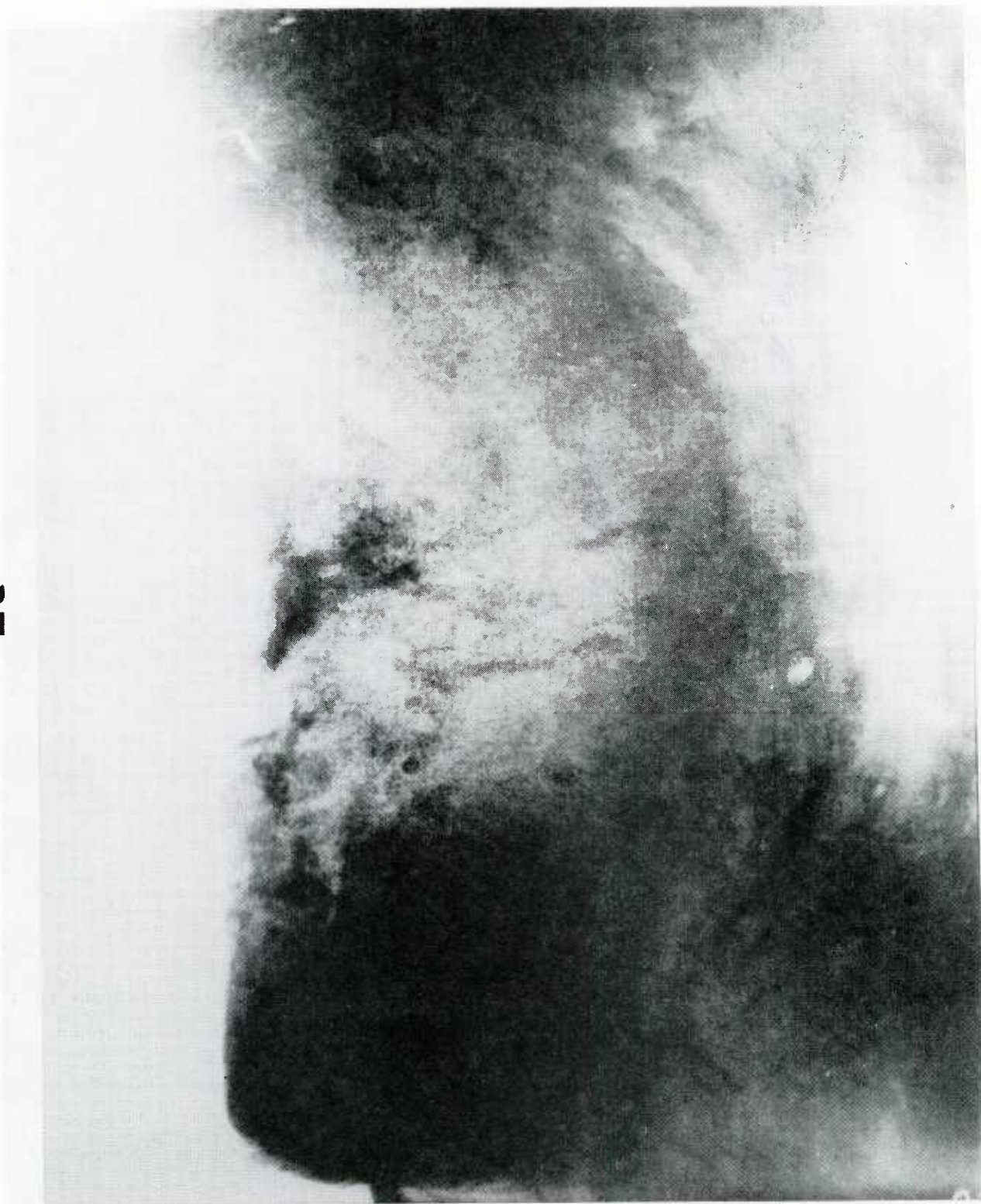




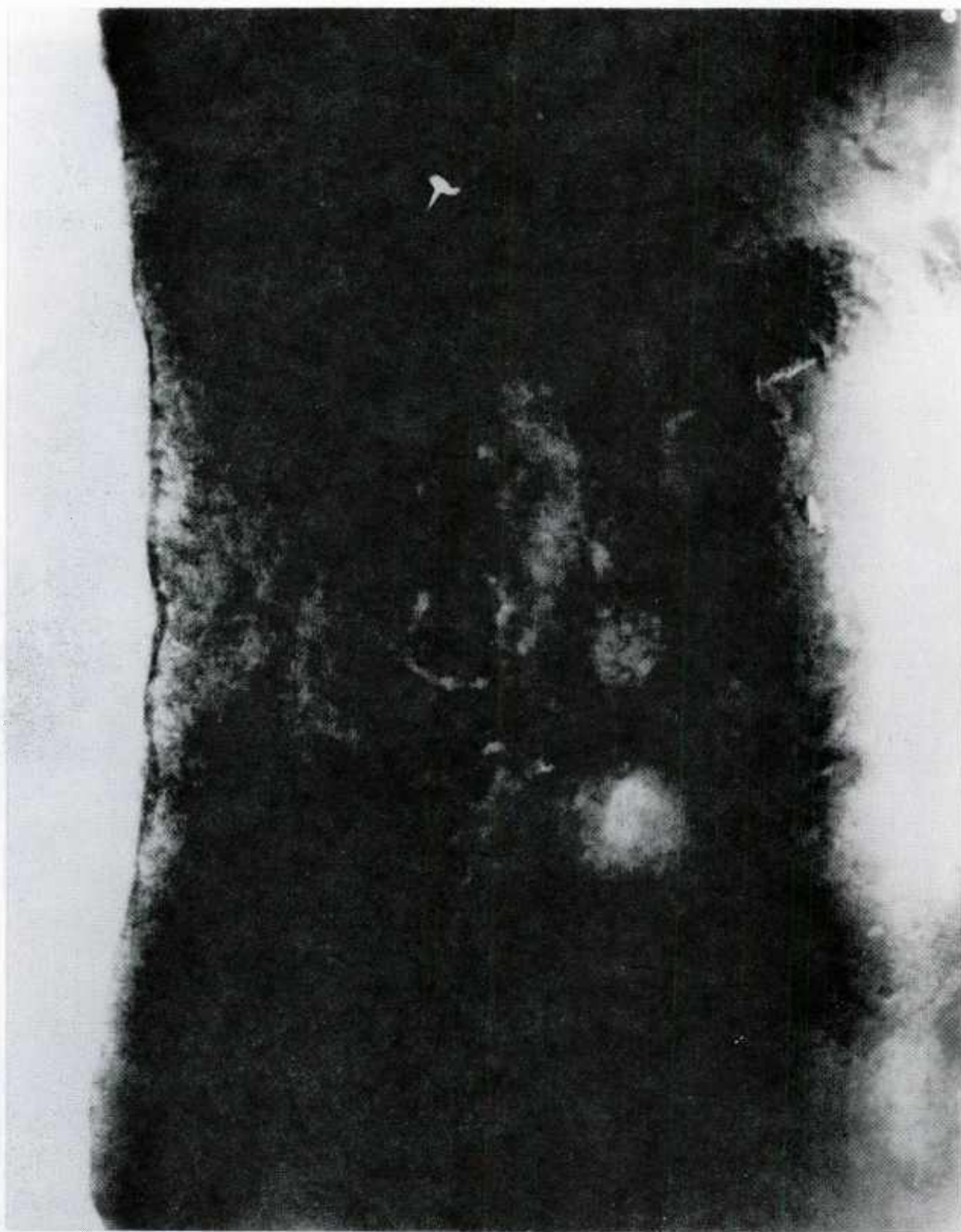


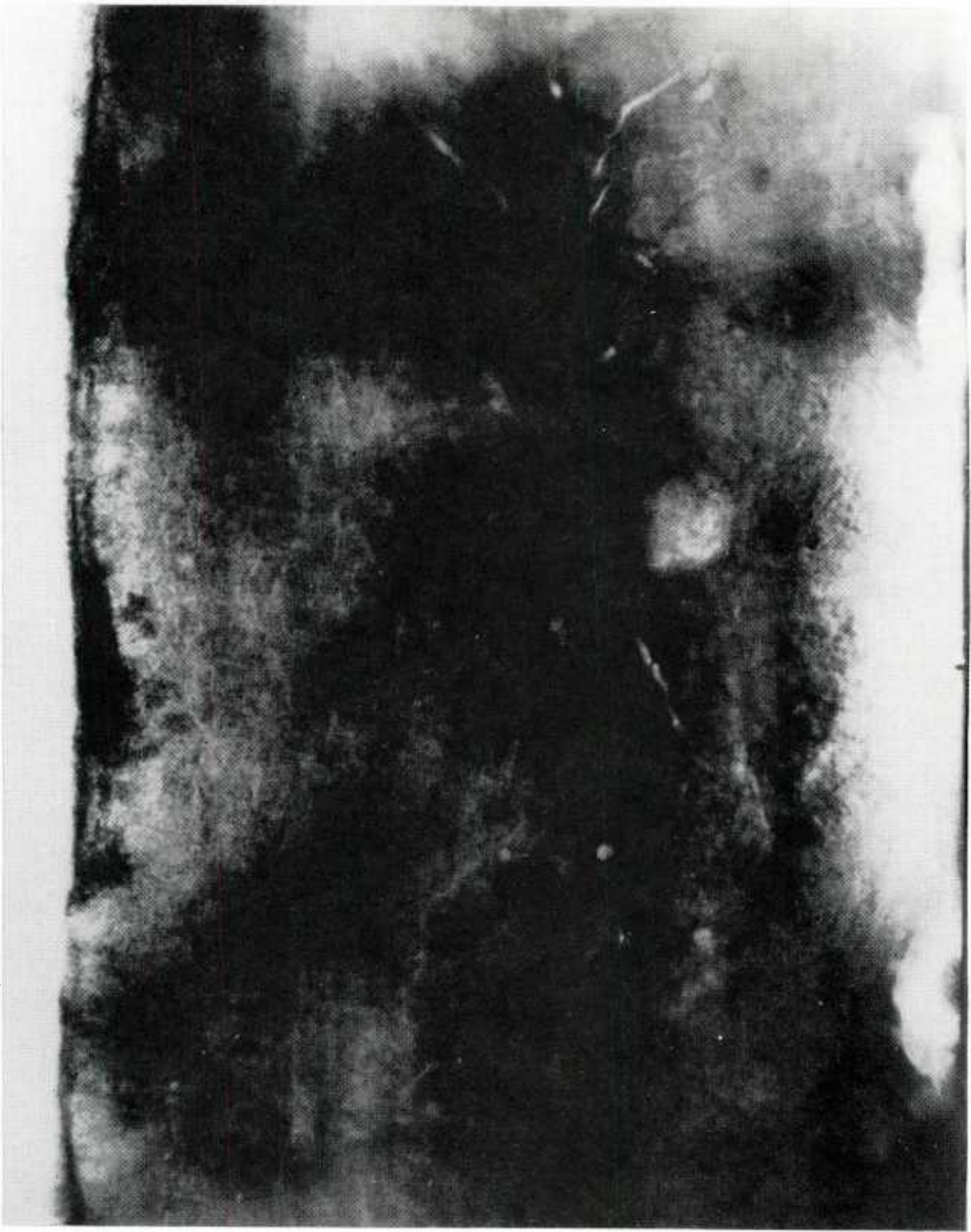


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APPENDIX D COLOR DESCRIPTIONS OF CORES

Color descriptions are depicted as both Munsell®hue/value/chroma designations and soil color names. The "hue" refers to red, yellow, green, blue, and purple. The "value" refers to lightness. The "chroma" refers to strength (departure from a neutral of the same lightness). All descriptions were derived from subcores except at station 31 where the color was described from a freshly opened box core.

Station	Depth (cm)	Hue/Value/Chroma	Color
23(24)	0 to 3	10YR/6/3	Pale brown
	3 to 15	10YR/6/4	Light yellowish-brown
	15 to 39	10YR/6/3	Pale brown
31	0 to 15	10YR/6/4	Light yellowish-brown
	15 to 30	10YR/6/3	Pale brown
42(10)	0 to 6	10YR/6/4	Light yellowish-brown
	6 to 39	10YR/6/3	Pale brown
43(6)	0 to 6	10YR/6/4	Light yellowish-brown
	6 to 12	10YR/6/3	Pale brown
	12 to 15	10YR/6/4	Light yellowish-brown
	15 to 27	10YR/6/3	Pale brown
44(14)	0 to 3	10YR/5/3	Brown
	3 to 12	10YR/6/4	Light yellowish-brown
	12 to 33	10YR/6/3	Pale brown
48(1)	0 to 10	10YR/4/3	Brown/dark brown
	10 to 11	10YR/4/2	Dark grayish-brown
	11 to 13	10YR/2/2	Very dark brown
	13 to 14	10YR/4/1	Dark gray
48(4)	0 to 8	10YR/4/3	Brown/dark brown
	8 to 12	10YR/4/2	Dark grayish-brown
	12 to 14	10YR/2/2	Very dark brown
		10YR/3/3	Dark brown
		10YR/3/2	Very dark grayish-brown
	14 to 16	10YR/3/3	Dark brown
	16 to 18	10YR/3/1	Very dark gray
	18 to 20	10YR/4/1	Dark gray
	20 to 21.5	10YR/4/1	Dark gray
		10YR/3/1	Very dark gray
	21.5 to 28	10YR/5/1	Gray
	28 to 32	10YR/4/1	Dark gray
	32 to 34	10YR/3/1	Very dark gray
48(9)	32 to 34	10YR/5/1	Gray
		10YR/6/4	Light yellowish-brown
	34 to 36	10YR/4/1	Dark gray
		10YR/3/1	Very dark gray
	36 to 40	10YR/3/1	Very dark gray

Station	Depth (cm)	Hue/Value/Chroma	Color
67(5)	0 to 3	10YR/5/3	Brown
	3 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/3/3	Dark brown
		10YR/3/2	Very dark grayish-brown
		2.5Y/4/2	Dark grayish-brown
	9 to 12	10YR/5/1	Gray
	12 to 15	10YR/6/4	Light yellowish-brown
	15 to 18	2.5Y/3/2	Very dark grayish-brown
	18 to 33	2.5Y/5/2	Dark grayish-brown
		10YR/5/1	Gray
68(4)	0 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/3/3	Dark brown
	9 to 15	10YR/3/3	Dark brown
		5Y/3/1	Very dark gray
	15 to 21	5Y/4/2	Olive gray
	21 to 27	5Y/5/2	Olive gray
	27 to 30	5Y/4/4	Olive
		5Y/5/2	Olive gray
69(7)	0 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/3/3	Dark brown
	9 to 13	10YR/3/3	Dark brown
		10YR/3/2	Very dark grayish-brown
	13 to 16	10YR/5/3	Brown
	16 to 25	5Y/5/1	Gray
70(9)	0 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/4/3	Brown/dark brown
		5Y/4/2	Olive gray
	9 to 16	10YR/4/3	Brown/dark brown
		5Y/3/2	Dark olive gray
	16 to 18	5Y/5/2	Olive gray
	18 to 21	5Y/5/2	Olive gray
		5Y/4/2	Olive gray
71(8)	0 to 6	10YR/5/3	Brown
	6 to 15	10YR/5/3	Brown
		5Y/3/2	Dark olive gray
	15 to 18	5Y/5/2	Olive gray
	18 to 24	5Y/5/2	Olive gray
		5Y/4/3	Olive
74(1)	0 to 6	10YR/4/4	Dark yellowish-brown
	6 to 15	10YR/5/4	Yellowish-brown
		5Y/3/2	Dark olive gray
	15 to 30	5Y/5/2	Olive gray

APPENDIX E
COMPRESSIONAL WAVE VELOCITY PROBE DATA

Compressional wave velocity (V_p , m/sec) as measured by probes inserted into intact box cores is presented. Velocity values are calculated for 20°C.

Station	Depth (cm)	Trial		$\bar{V}_p$
		1	2	
22	0	1485.9	--	1485.9
	1	1439.7	1520.2	1480.0
	2	1458.7	1483.4	1471.1
	3	1491.6	1492.5	1492.1
	4	1501.3	1484.3	1492.8
	5	1489.5	1495.3	1492.4
	6	1503.1	1495.5	1499.3
	7	1501.3	1498.0	1499.7
	8	1498.1	1496.3	1497.2
	9	1500.8	1488.2	1494.5
	10	1503.5	1502.6	1503.1
	11	1496.8	1510.9	1503.9
	12	1505.1	1525.5	1515.3
	13	1505.0	1532.3	1518.7
	14	1512.6	1527.7	1520.2
	15	1519.1	1518.1	1518.6
	16	1526.7	1521.4	1524.1
	17	1527.3	1515.9	1521.6
	18	1527.3	1535.0	1531.2
	19	1525.8	1534.0	1529.9
	20	1528.5	1533.8	1531.2
	21	1523.3	1531.2	1527.3
	22	1516.5	1531.0	1523.8
	23	1519.2	1516.4	1517.8
	24	1513.6	1523.1	1518.4
	25	1517.9	1510.7	1514.3
	26	1508.8	1511.6	1510.2
	27	1507.4	1515.3	1511.4
	28	1501.3	1515.3	1508.3
	29	1509.8	1514.0	1511.9
	30	1504.2	1511.6	1507.9
	31	1507.0	1507.4	1507.2
	32	1499.6	1513.2	1506.4
	33	1500.5	1503.8	1502.2
	34	1499.8	1506.4	1503.1
	35	1492.2	1507.5	1499.9
	36	1493.5	1503.1	1498.3
	37	1501.0	--	1501.0

Station	Depth (cm)	Trial				V _p
		1	2	3	4	
31	0	--	--	--	--	--
	1	1470.2	1491.6	1467.4	1479.6	1469.7
	2	1450.1	1476.1	1464.2	1439.8	1457.6
	3	1479.3	1486.5	1507.7	1503.9	1494.4
	4	1476.0	1481.2	1490.9	1483.6	1482.9
	5	1484.9	1474.6	1490.3	1470.8	1480.2
	6	1488.1	1482.9	1506.0	1496.7	1493.4
	7	1488.3	1482.0	1496.7	1491.6	1489.7
	8	1486.3	1486.4	1487.4	1486.7	1486.7
	9	1502.7	1492.0	1514.0	1505.1	1503.5
	10	1513.5	1500.0	1493.1	1496.7	1500.8
	11	1520.3	1494.6	1510.1	1501.0	1506.5
	12	1518.5	1508.6	1509.3	1502.2	1509.7
	13	1522.5	1498.4	1523.9	1505.2	1512.5
	14	1522.3	1508.6	1505.6	1533.0	1517.4
	15	1523.0	1499.6	1539.3	1517.9	1520.0
	16	1532.2	1511.5	1527.5	1507.1	1519.6
	17	1534.6	1498.9	1528.9	1524.0	1521.6
	18	1525.8	1494.6	1529.9	1519.7	1517.5
	19	1534.2	1505.2	1531.7	1523.4	1523.6
	20	1522.0	1498.4	1527.8	1520.1	1517.1
	21	1517.8	1508.5	1525.5	1510.0	1515.5
	22	1520.9	1495.6	1530.8	1509.2	1514.1
	23	1520.3	1509.0	1525.0	1518.2	1518.1
	24	1514.6	1509.4	1517.3	1501.3	1510.7
	25	1508.7	1506.3	1508.3	1508.4	1507.9
	26	1513.0	1504.0	1518.2	1508.8	1511.0
	27	1509.3	1505.1	1516.4	1509.8	1510.2
	28	1501.9	1505.7	1506.4	1506.5	1505.1
	29	1502.3	1503.4	1512.6	1509.3	1506.9
	30	1503.6	1500.2	1509.2	1507.9	1505.2
	31	1502.6	1501.6	1498.3	1502.8	1501.3
	32	1512.3	1500.2	1501.0	1510.3	1506.0
	33	1493.5	1498.4	1496.1	1503.9	1498.0
	34	--	1497.5	1506.9	1502.4	1502.3
	35	--	1490.9	--	1501.7	1496.3

Station	Depth (cm)	Trial				$\bar{V}_p$
		1	2	3	4	
48	0	1514.8	--	--	--	1514.8
	1	1705.7	1575.9	1487.5	1454.8	1556.0
	2	1462.1	1751.4	1515.5	1489.6	1554.7
	3	1479.5	1468.4	1468.8	1477.4	1473.5
	4	1484.3	1483.0	1469.0	1478.5	1478.7
	5	1478.4	1488.1	1477.2	1478.5	1480.6
	6	1481.8	1484.1	1478.4	1479.7	1481.0
	7	1496.3	1488.5	1480.8	1478.2	1486.0
	8	1500.4	1488.8	1480.8	1488.0	1489.5
	9	1490.5	1487.9	1485.7	1480.6	1486.2
	10	1492.0	1491.6	1491.6	1476.0	1487.8
	11	1487.2	1506.2	1493.4	1493.9	1495.2
	12	1507.5	1514.7	1499.1	1515.6	1509.2
	13	1515.8	1502.0	1499.5	1519.4	1509.2
	14	1516.1	1527.6	1501.5	1489.7	1508.7
	15	1517.0	1512.3	1506.1	1499.1	1508.9
	16	1525.7	1513.3	1523.2	1507.5	1517.4
	17	1507.7	1524.8	1536.9	1524.7	1523.5
	18	1501.7	1513.8	1498.7	1515.0	1507.3
	19	1511.2	--	1511.3	1504.7	1509.1
	20	1514.4	--	1511.3	1502.9	1509.5
	21	1528.8	1524.8	1552.1	1506.5	1528.1
	22	1534.6	1551.1	1524.3	1508.1	1529.5
	23	1517.3	1548.7	1520.5	1515.1	1525.4
	24	1526.3	1553.7	1514.8	1568.8	1540.9
	25	--	1545.7	1540.8	1566.2	1550.9
	26	--	--	1527.7	1547.2	1537.5
	27	--	1553.2	1537.3	1613.4	1568.0

Station	Depth (cm)	Trial				V_p
		1	2	3	4	
82	0	1526.1	1568.5	1504.6	1553.7	1538.2
	1	1496.1	1490.9	1496.9	1450.1	1483.5
	2	1492.8	1513.7	1472.3	1502.4	1495.3
	3	1499.4	1511.4	1481.5	1482.2	1493.6
	4	1506.7	1513.8	1494.8	1484.5	1500.0
	5	1509.3	1514.9	1499.3	1484.2	1501.9
	6	1518.3	1515.9	1492.0	1486.5	1503.2
	7	1516.0	1528.7	1495.1	1492.9	1508.2
	8	1527.4	1525.8	1500.0	1503.1	1514.1
	9	1521.3	1538.7	1508.1	1500.6	1517.2
	10	1532.5	1530.4	1508.5	1504.8	1519.1
	11	1533.3	1526.0	1506.4	1495.0	1515.2
	12	1527.9	1532.4	1510.8	1495.8	1516.7
	13	1531.4	1535.2	1511.5	1492.8	1517.7
	14	1528.2	1532.4	1510.6	1500.7	1518.0
	15	1534.1	1540.9	1512.1	1501.6	1522.2
	16	1544.1	1541.4	1512.9	1507.5	1526.5
	17	1539.9	1544.4	1513.8	1503.8	1525.5
	18	1544.5	1539.4	1510.0	1511.8	1526.4
	19	1540.3	--	1512.9	--	1526.6

APPENDIX F
SEDIMENT SHEAR STRENGTH MEASURED
WITH HAND-HELD VANE SHEAR PROBE

Shear strength of sediments (τ_p , g/cm²) was measured in undisturbed box cores with a 1.89 x 1.89 cm or a 2.54 x 2.54 cm vane. The larger vane was used at stations 23, 28, and 31 only.

Station	Depth		Trial						$\bar{t}f$
	(in.)	(cm)	1	2	3	4	5	6	
23	1	2.54	12.43	12.43	12.43	12.43	9.95	14.92	13.77
	2	5.08	24.87	19.89	17.41	29.84	19.89	24.87	22.80
	3	7.62	44.76	54.70	42.27	34.81	49.73	64.65	48.44
	4	10.16	64.65	64.65	64.65	59.68	79.57	79.57	68.80
	5	12.70	94.50	74.60	89.51	77.08	79.57	84.54	83.30
	6	15.24	94.50	89.51	89.51	84.54	94.49	89.51	90.34
	7	17.78	79.57	89.51	89.51	49.57	84.54	89.51	80.37
	8	20.32	79.57	79.57	74.60	69.62	79.57	84.54	77.91
	9	22.86	69.62	69.62	69.62	64.65	79.57	79.57	72.11
	10	25.40	69.62	69.62	74.60	59.68	79.57	74.60	71.28
	11	27.94	59.68	69.62	69.62	62.16	59.68	64.65	64.24
	12	30.48	64.65	59.68	74.60	69.62	59.68	67.14	65.90
	13	33.02	44.76	59.68	44.75	59.68	59.68	59.68	54.71
	14	35.56	47.24	64.65	44.75	57.19	64.65	59.68	56.36
	15	38.10	47.24	44.76	44.75	59.68	59.68	59.68	52.63
	16	40.64	54.70	49.73	47.25	59.68	59.68	59.68	55.12
28	1	2.54	7.5	12.4	12.4	19.9	9.9	9.9	12.0
	2	5.08	24.9	34.8	19.9	24.9	27.4	39.8	28.6
	3	7.62	59.7	67.1	59.7	59.7	52.2	67.1	60.9
	4	10.16	64.6	89.5	77.1	84.5	77.1	92.0	80.8
	5	12.70	94.5	87.0	89.5	97.0	89.5	99.5	92.8
	6	15.24	94.5	99.5	79.6	104.4	89.5	119.4	97.8
	7	17.78	84.6	89.5	84.6	89.5	74.6	104.4	87.9
	8	20.32	84.5	82.1	84.5	94.5	74.6	89.5	85.0
	9	22.86	64.6	69.6	69.6	74.6	74.6	84.5	72.9
	10	25.40	59.7	79.6	74.6	67.1	69.6	69.6	70.0
	11	27.94	59.7	69.6	64.6	67.1	64.7	69.6	65.9
	12	30.48	64.6	49.7	49.7	64.7	59.7	59.7	58.0
	13	33.02	49.7	54.7	64.6	59.7	52.2	49.7	55.1
	14	35.56	49.7	52.2	67.1	49.7	49.7	49.7	53.0
	15	38.10	44.8	42.3	49.7	49.7	67.1	54.7	51.4
	16	40.64	47.2	49.7	54.7	49.7	--	--	50.3

Station	Depth		Trial						$\bar{r}_f$
	(in.)	(cm)	1	2	3	4	5	6	
31	1	2.54	14.9	14.9	19.9	19.9	19.9	12.4	17.0
	2	5.08	34.8	42.3	24.9	24.9	39.8	24.9	31.9
	3	7.62	64.7	67.1	57.2	44.8	54.7	69.6	59.7
	4	10.16	74.6	84.5	84.5	79.6	84.5	77.1	80.8
	5	12.70	89.5	114.4	94.5	106.9	84.5	89.5	96.6
	6	15.24	99.5	114.4	119.4	104.4	84.5	119.4	106.9
	7	17.78	99.5	99.5	97.0	106.9	99.5	87.0	98.2
	8	20.32	99.5	89.5	84.5	89.5	84.5	84.5	88.7
	9	22.86	79.6	69.6	74.6	67.1	74.6	67.1	72.1
	10	25.40	74.6	64.6	64.6	72.1	67.1	67.1	68.4
	11	27.94	59.7	67.1	72.1	69.6	72.1	64.6	67.5
	12	30.48	59.7	59.7	64.6	67.1	64.6	64.6	63.4
	13	33.02	54.7	54.7	62.2	57.2	39.8	49.7	53.1
	14	35.56	44.8	47.2	54.7	54.7	44.8	64.6	51.8
	15	38.10	42.3	42.3	52.2	52.2	39.8	62.2	48.5
	16	40.64	--	--	39.8	42.2	--	--	41.0
48	1	2.54	2.5	2.5	2.5	2.5	5.0	--	3.0
	2	5.08	12.4	--	14.9	12.4	10.9	--	12.7
	3	7.62	14.9	29.8	24.9	29.8	39.8	--	27.8
	4	10.16	47.2	59.7	49.7	64.6	104.4	--	65.1
	5	12.70	94.5	223.8	149.2	198.9	248.7	--	183.0
	6	15.24	159.1	124.3	149.2	134.3	119.4	--	137.3
	7	17.78	74.6	49.7	49.7	34.8	29.8	--	47.7
	8	20.32	34.8	19.9	24.9	14.9	29.9	--	24.9
	9	22.86	17.4	19.9	39.8	12.4	29.9	--	23.9
	10	25.40	14.9	19.9	19.9	34.8	39.8	--	25.9
	11	27.91	24.9	29.8	24.9	24.9	34.8	--	27.9
	12	30.48	22.4	29.8	29.8	39.8	39.8	--	32.3
	13	33.02	34.8	39.8	44.8	134.3	159.1	--	82.6
	14	35.56	94.5	104.4	159.1	124.3	134.3	--	123.3
	15	38.10	149.2	129.3	99.5	59.7	79.6	--	103.5
	16	40.64	--	--	--	54.7	69.6	--	62.2

Station	Depth		Trial						$\bar{x}$
	(in.)	(cm)	1	2	3	4	5	6	
55	1	2.54	4.9	12.4	4.9	4.9	4.9	4.9	6.2
	2	5.08	14.9	17.4	19.9	14.9	9.9	14.9	15.3
	3	7.62	29.8	34.8	34.8	29.8	29.8	44.8	34.0
	4	10.16	49.7	69.6	59.7	49.7	69.6	69.6	61.3
	5	12.70	169.1	159.1	134.3	149.2	119.4	134.3	144.2
	6	15.24	134.3	149.2	119.4	124.3	114.4	134.3	129.3
	7	17.78	34.8	24.9	17.4	29.8	--	--	26.7
	8	20.32	24.9	24.9	19.9	29.8	--	--	24.9
	9	22.86	19.9	14.9	14.9	19.9	--	--	17.4
	10	25.40	29.8	19.9	19.9	24.9	--	--	23.6
	11	27.91	29.8	19.9	29.9	29.9	--	--	27.4
	12	30.48	29.9	24.9	24.9	24.9	--	--	26.2
	13	33.02	44.8	34.8	29.9	39.8	--	--	37.8
	14	35.56	134.3	104.4	49.7	104.4	--	--	98.2
	15	38.10	238.7	208.5	268.5	208.9	--	--	231.2
	16	40.64	69.6	--	54.7	59.7	--	--	61.3
74	1	2.54	29.8	14.9	14.9	14.9	14.9	14.9	17.4
	2	5.08	44.8	44.8	44.8	49.7	34.8	29.8	41.5
	3	7.62	74.6	64.6	74.6	89.5	64.6	54.7	70.4
	4	10.16	94.5	104.4	104.4	114.4	84.5	84.5	97.8
	5	12.70	119.4	129.3	109.4	124.3	119.4	94.5	116.1
	6	15.24	149.2	149.2	129.3	208.9	134.3	129.3	150.0
	7	17.78	179.0	263.6	218.8	179.0	258.6	169.1	211.4
	8	20.32	198.9	253.6	198.9	218.8	303.4	238.7	235.4
	9	22.86	184.0	248.7	218.8	263.6	238.7	228.8	230.4
	10	25.40	218.8	238.7	218.8	308.3	293.4	189.0	244.5
	11	27.91	273.5	248.7	189.0	288.4	258.6	189.0	241.2
	12	30.48	243.7	228.8	198.9	228.8	238.7	238.7	229.6

Station	Depth		Trial						$\bar{r}f$
	(in.)	(cm)	1	2	3	4	5	6	
80	1	2.54	14.9	14.9	14.9	9.9	14.9	14.9	14.1
	2	5.08	44.8	29.8	24.8	29.8	29.8	29.8	31.5
	3	7.62	54.7	54.7	34.8	49.7	49.7	54.7	49.7
	4	10.16	49.7	44.8	64.7	84.5	44.8	64.7	58.9
	5	12.70	69.6	84.5	99.5	119.4	59.7	74.6	84.6
	6	15.24	79.6	89.5	109.4	129.3	84.5	99.5	98.6
	7	17.78	129.3	129.3	129.3	149.2	94.5	119.4	125.2
	8	20.32	174.0	208.9	169.1	218.8	169.1	134.3	179.0
	9	22.86	179.0	129.3	228.8	228.8	198.9	184.0	191.5
	10	25.40	179.0	233.7	248.7	174.1	208.9	248.7	215.5
	11	27.91	169.1	223.8	248.7	248.7	203.9	189.0	213.9
	12	30.48	198.9	119.4	189.0	189.0	169.1	218.8	180.7
82	1	2.54	9.9	9.9	9.9	14.9	14.9	19.8	13.2
	2	5.08	19.9	29.8	24.9	29.8	34.8	34.8	29.0
	3	7.62	29.8	44.8	44.8	49.7	54.7	59.7	47.3
	4	10.16	54.7	54.7	39.8	74.6	79.6	94.5	66.3
	5	12.70	99.5	79.6	79.6	74.6	104.4	109.4	91.2
	6	15.24	114.4	119.4	129.3	99.5	114.4	144.2	120.2
	7	17.78	139.2	139.2	149.2	144.2	149.2	164.1	147.5
	8	20.32	208.9	174.1	238.7	253.6	313.3	268.5	242.9
	9	22.86	213.8	238.7	293.4	273.5	268.5	303.4	265.2
	10	25.40	233.7	288.4	218.8	238.7	233.7	198.9	235.4
	11	27.94	261.5	238.7	218.8	293.4	268.5	288.4	261.6
	12	30.48	223.8	149.2	348.1	273.5	198.9	308.3	250.3
	13	33.02	174.1	193.9	193.9	198.9	203.9	179.0	190.6
	14	35.56	--	--	318.3	179.0	174.1	248.6	230.0

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