

Figure 10: Core Photograph of 11A

CORE 11A:

Core 11A was collected in water with a of 4.7 m (15.5ft) (Table 1) and was 226cm (90in) long (Figures 11-13). A total of 9 grain size samples were taken at depths of 1-10cm (0.4-3.9in), 51-60cm (20-23.6in), 61-70cm (24-27.6in), 71-80cm (28-31.5in), 101-110cm (39.3-49.8in), 131-140cm (51.6-55.1in), 151-160cm (59.4-63in), 181-190cm (71.3-74.8in) and 201-210cm (78.7-82.7in). The grain size analyses revealed that the top 60cm (23.6in) of the core contained between 55 to 91% sand with a mean grain size ranging from 0.150mm (2.7phi) to 0.055mm (4.1phi). From 60cm (23.6) to the bottom of the core, percent sand was over 81% and mean grain size was at least 0.031mm (5.0phi) (Tables 8&9). Sand and shell weights are shown in Table 9. Percent shell, sand, silt and clay are shown in Table 10. Median grain size, mean grain size, skewness and sorting index are shown in Table 11. Graphs of the results are located in Figures 14-17.

It was determined that core 11A had approximately 226cm (90in) of sediment that contained at least 50% sand, of which 100cm (39.4in) was located at less than 1m (39.4in) depth. The average grain size in the upper 1m (3.28ft) was determined to be 0.0990mm.

Core#: 11A

Core Date: 7/18/2005

Date Split/subsampled	Length: 236cm
7/13/2005	Lat: 39 13.98
	Long: 94 54.03

Centi-Meters	Munsell Soil Color	Depths Sampled	Description:
0-67cm	WC	0-10cm	0-10cm → shell hash w/sand
54 5/1		10-50cm	10-50cm → sand w/shell hash
67-236cm		56-61cm	56-61cm → shell hash w/sand
54 5/2		61-66cm	61-66cm → sand w/shell hash
		66-94cm	66-94cm → shell hash w/sand
		94-135cm	94-135cm → sand w/trace shell hash
		135-189cm	135-189cm → shell hash w/sand
		189-236cm	189-236cm → sand w/trace shell hash
		GS	
		1-10cm	
		51-60cm	
		101-110cm	
		151-160cm	
		201-210cm	
		CS-125+	
		423-430cm	

Core#: 11A

Core Date: 7/18/2005

Date Split/subsampled	Length: 236cm
7/13/2005	Lat: 39 13.98
	Long: 94 54.03

Centi-Meters	Munsell Soil Color	Depths Sampled	Description:
150-300cm			

Figure 11: Core Log of 11A for depths 0-150cm

Figure 12: Core Log of 11A for depths 150-300cm

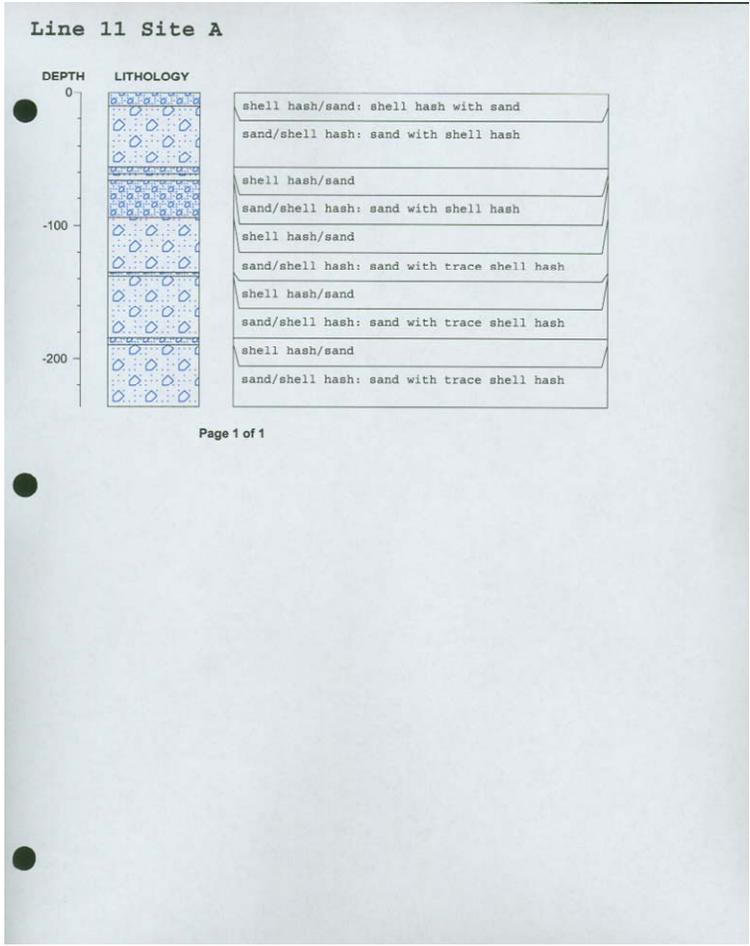


Figure 13: Computerized core log for core 11A

Core ID	Sample Depth (cm)	#10/ 2.0mm Screen Sample Weight (g)	#14/ 1.40mm Screen Sample Weight (g)	#18/ 1.00mm Screen Sample Weight (g)	#25/ 710µm Screen Sample Weight (g)	#35/ 500µm Screen Sample Weight (g)	#45/ 355µm Screen Sample Weight (g)	#60/ 250µm Screen Sample Weight (g)	#80/ 180µm Screen Sample Weight (g)	#125/ 125µm Screen Sample Weight (g)	#170/ 90µm Screen Sample Weight (g)	#200/ 75µm Screen Sample Weight (g)	#230/ 63µm Screen Sample Weight (g)
11A	1-10	36.71	0.96	0.69	0.56	0.23	0.24	0.31	0.48	3.67	36.49	13.77	2.81
11A	51-60	0.75	0.57	0.85	0.65	0.43	0.30	0.40	1.13	17.20	76.17	9.31	2.94
11A	61-70	0.89	0.86	0.64	0.48	0.25	0.24	0.30	0.77	14.17	47.01	7.09	1.80
11A	71-80	4.50	2.79	1.65	1.24	0.61	0.37	0.33	0.94	8.44	44.91	10.64	1.88
11A	101-110	0.18	0.11	0.12	0.14	0.15	0.18	0.37	0.44	14.34	64.47	6.62	2.02
11A	131-140	0.12	0.10	0.11	0.10	0.07	0.06	0.10	0.48	8.86	54.91	11.94	3.24
11A	151-160	0.00	0.02	0.03	0.09	0.11	0.20	0.20	0.43	13.30	61.00	13.00	6.48
11A	181-190	0.15	0.16	0.16	0.12	0.07	0.14	0.21	0.46	10.58	62.88	11.90	3.13
11A	201-210	0.00	0.01	0.02	0.03	0.04	0.05	0.14	0.60	73.59	9.40	1.28	0.94

Table 7: RO-TAP data for core 11A

ASTM Classification		coarse sand	medium sand	medium sand	medium sand	medium sand	fine sand	fine sand	fine sand	fine sand	fine sand	fine sand	silt
Wentworth Classification		granule	very coarse sand	very coarse sand	coarse sand	coarse sand	medium sand	fine sand	fine sand	fine sand	very fine sand	very fine sand	very fine silt
Core ID	Sample Depth (cm)	% finer than N10/ 2.0mm/ -1.0Φ Screen	% finer than N14/ 1.40mm / -0.5Φ Screen	% finer than N18/ 1.00mm/ 0.0Φ Screen	% finer than N25/ 710µm / 0.5Φ Screen	% finer than N35/ 500µm/ 1.0Φ Screen	% finer than N45/ 355µm / 1.5Φ Screen	% finer than N60/ 250µm 2.0Φ Screen	% finer than N80/ 180µm/ 2.5 Φ Screen	% finer than N125/ 125µm/ 3.0Φ Screen	% finer than N170/ 90µm / 3.5Φ Screen	% finer than N200/ 75µm / 4.0Φ Screen	% finer than 4µm / 8Φ
Observed Contents of the sample		shell only	shell only	shell only	shell only	shell only	shell only	shell only	sand	sand	sand	sand	silt
11A	1-10	62.9	61.9	61.2	60.6	60.4	60.2	59.8	59.4	55.6	18.7	4.8	1.2
11A	51-60	99.3	98.8	98.1	97.5	97.1	96.9	96.5	95.5	80.4	13.5	5.4	1.5
11A	61-70	98.9	97.8	97.0	96.3	96.0	95.7	95.3	94.3	76.3	16.3	7.2	1.5
11A	71-80	94.4	91.0	88.9	87.4	86.7	86.2	85.8	84.6	74.2	18.7	5.5	2.1
11A	101-110	99.8	99.7	99.6	99.4	99.3	99.1	98.7	98.3	83.4	16.7	9.8	3.3
11A	131-140	99.9	99.7	99.6	99.5	99.4	99.4	99.2	98.7	88.6	25.9	12.2	3.6
11A	151-160	100.0	100.0	99.9	99.9	99.7	99.5	99.3	98.9	85.4	23.3	10.1	1.6
11A	181-190	99.8	99.7	99.5	99.4	99.3	99.1	98.9	98.4	87.0	19.2	6.4	1.4
11A	201-210	100.0	100.0	100.0	99.9	99.9	99.8	99.7	99.0	14.6	3.8	2.3	0.0

Table 8: Percent finer table for core 11A

Core ID	Sample Depth (cm)	shell weight	200+ weight	200-230 weight	sand + shell
11A	1-10	39.39	54.72	2.81	94.11
11A	51-60	3.55	104.21	2.94	107.76
11A	61-70	3.36	69.34	1.80	72.70
11A	71-80	11.16	65.26	1.88	76.42
11A	101-110	0.88	86.24	2.02	87.12
11A	131-140	0.56	76.29	3.24	76.85
11A	151-160	0.45	87.93	6.48	88.38
11A	181-190	0.80	86.03	3.13	86.83
11A	201-210	0.15	85.01	0.94	85.16

Table 9: Shell and Sand weights for core 11A

Core ID	sample id	mid sample depth	% shell	% sand	%silt	%clay	total %
CC11A	1-10	5.5	39.8	55.4	3.6	1.2	100
CC11A	51-60	55.5	3.1	91.5	3.9	1.5	100
CC11A	61-70	65.5	4.3	88.5	5.7	1.5	100
CC11A	71-80	75.5	13.8	80.7	3.4	2.1	100
CC11A	101-110	105.5	0.9	89.3	6.6	3.3	100
CC11A	131-140	135.5	0.6	87.1	8.6	3.6	100
CC11A	151-160	155.5	0.5	89.5	8.5	1.6	100
CC11A	181-190	185.5	0.9	92.7	5.0	1.4	100
CC11A	201-210	205.5	0.2	97.5	2.3	0.0	100

Table 10: Percent Shell, Sand, Silt and Clay for core 11A

Station ID	Average Depth	Median Grain Size	Median Grain Size	Mean Grain Size	Mean Grain Size	Skewness	Sorting Index
	(cm)	(phi)	(mm)	(phi)	(mm)		
CC11A/1-10	5.5	3.339	0.0984	2.7370	0.1495	-0.1610	3.1856
CC11A/51-60	55.5	3.369	0.0964	4.1829	0.0548	0.7743	1.4906
CC11A/61-70	65.5	3.269	0.1033	3.4871	0.0888	0.0576	0.9804
CC11A/71-80	75.5	3.269	0.1033	3.2729	0.1030	-0.0387	1.3993
CC11A/101-110	105.5	3.278	0.1027	3.5050	0.0877	0.6687	0.8784
CC11A/131-140	135.5	3.953	0.0642	4.6585	0.0394	0.5785	1.6478
CC11A/151-160	155.5	4.816	0.0353	4.9737	0.0316	0.1694	1.6349
CC11A/181-190	185.5	3.335	0.0987	3.6137	0.0813	0.6861	0.9141
CC11A/201-210	205.5	2.816	0.1415	2.8387	0.1393	0.4990	0.673

PINK=Upper sand area

Table 11: Mean grain size, Median grain size, Skewness, and Sorting Index for core 11A

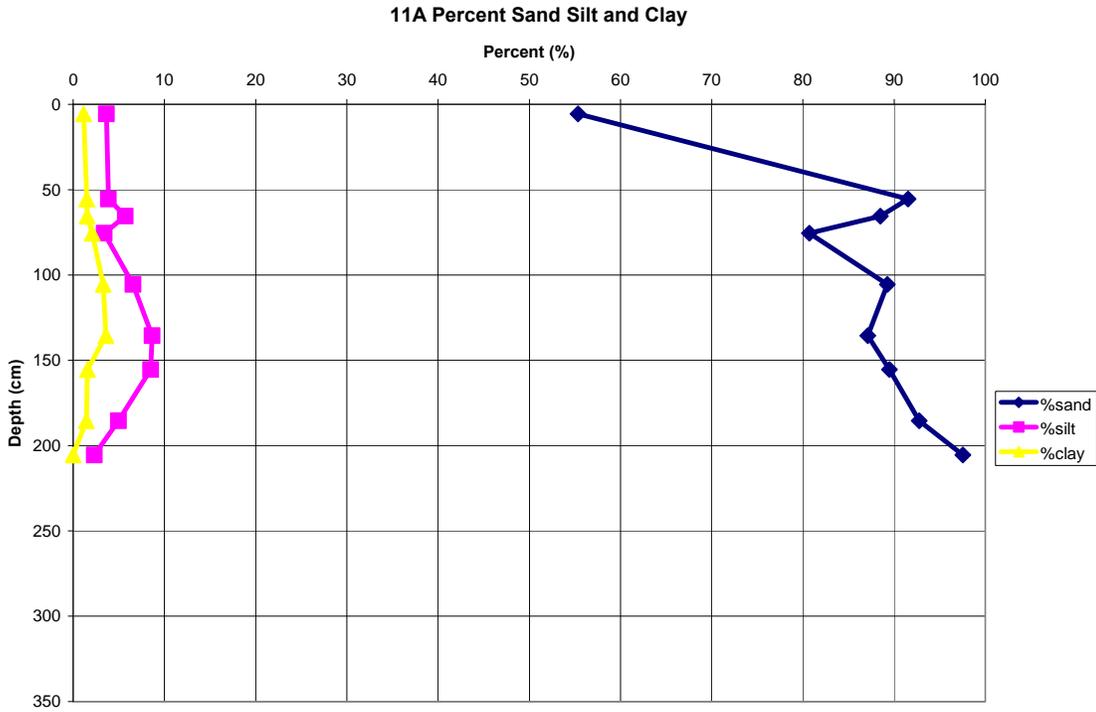


Figure 14: Percent Sand, Silt and Clay graph for core 11A

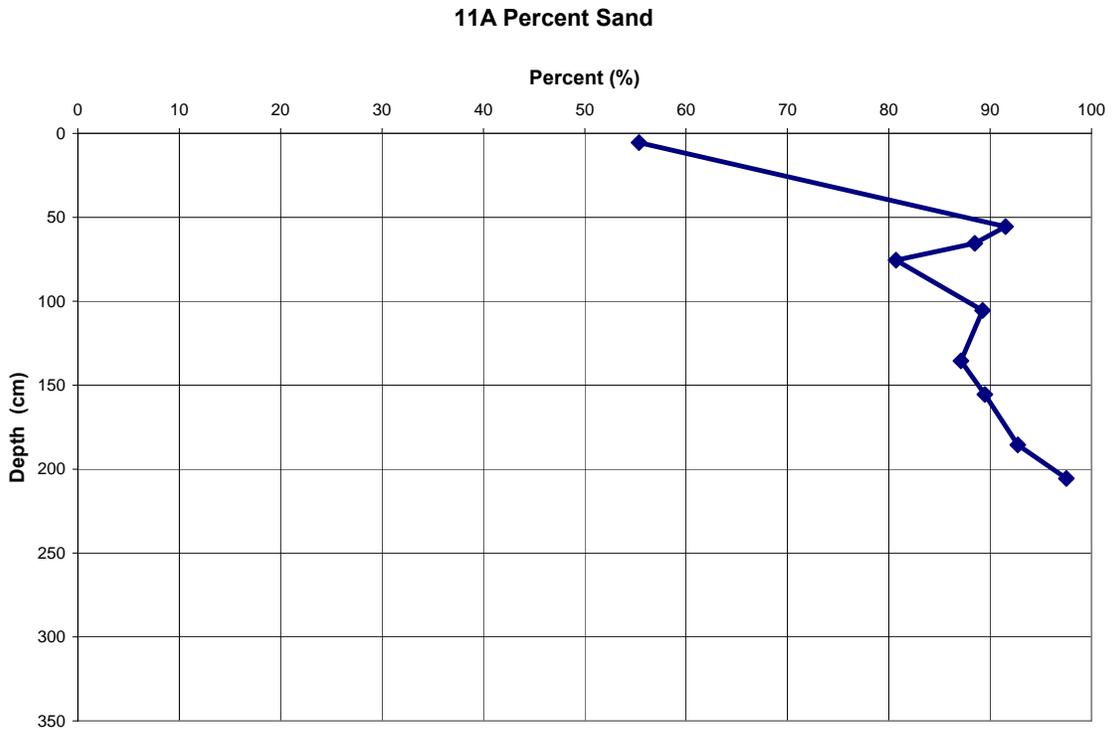


Figure 15: Percent Sand graph for core 11A

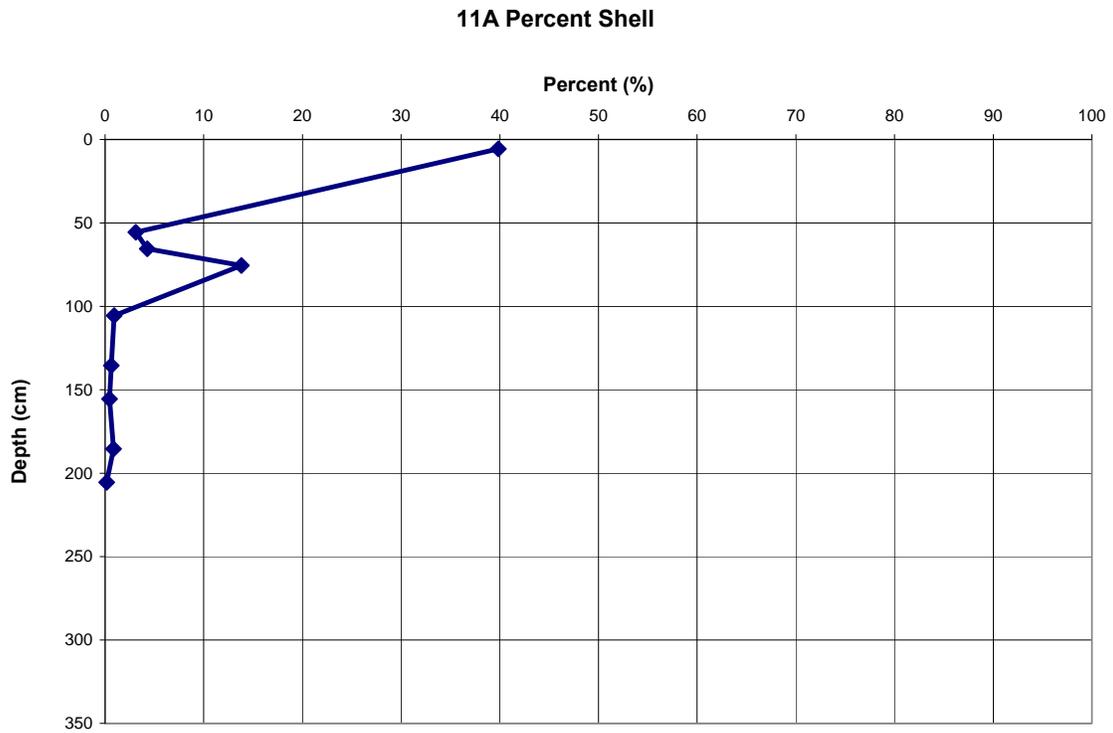


Figure 16: Percent Shell for core 11A

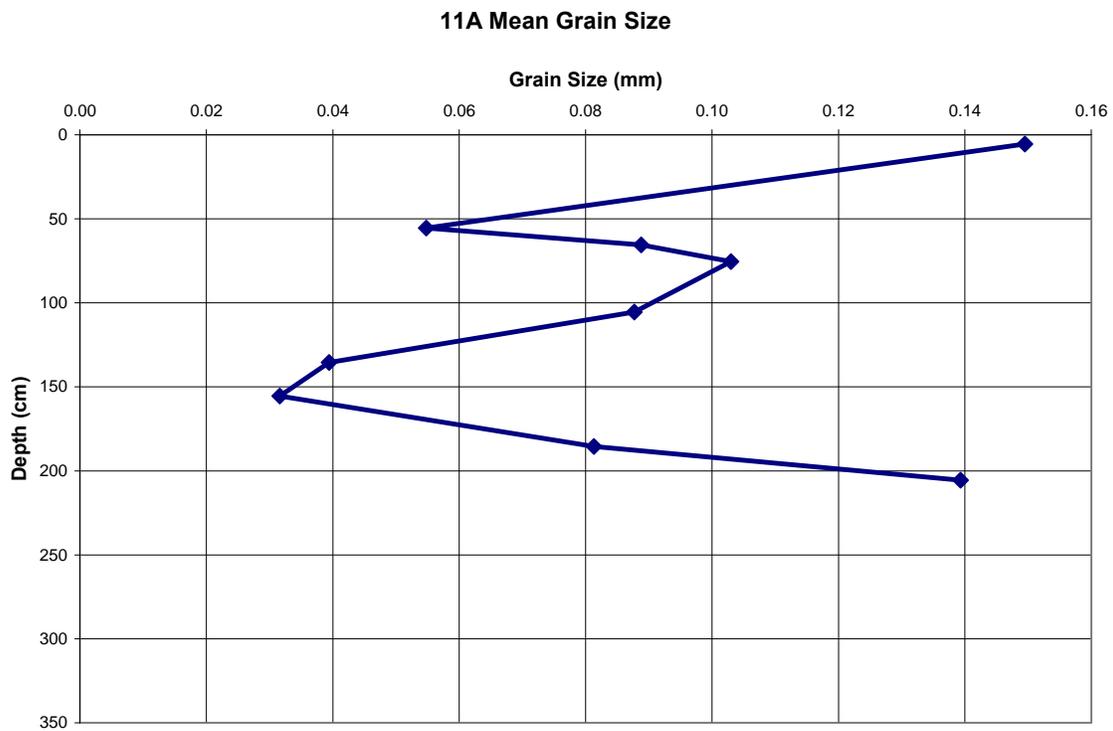


Figure 17: Mean grain size graph for core 11A