MGG09005032

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A SUMMARY OF SEDIMENT SIZE AND CHEMISTRY OF SIXTEEN GRAB SAMPLES TAKEN IN TAMPA BAY, NOV. 1968 TO APR. 1969

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Prepared for:
Code 9220
Project Flood

September 1969

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Nearshore Surveys Division
Oceanographic Surveys Department

U. S. Naval Oceanographic Office
Washington, D. C. 20390

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The results of the sediment size and composition analyses are printed out in tabular form.

The following is an explanation of the terms encountered on the data printout sheet:

CRUISE	A number assigned to each cruise for identification purposes.
SAMPLE	A consecutive number applied to each core taken successive throughout the cruise.
LATITUDE	Expressed in degrees, minutes, and tenths of minutes.
LONGITUDE	Expressed in degrees, minutes, and tenths of minutes.
TAKEN	Date in day, month, and year that core was taken.
CORER TYPE	Letters corresponding to sampling device code below.

Corers		Grabs	
HYP	Hydroplastic piston	SPK	Shipek Sediment Sampler
HYG	Hydroplastic gravity	HLP	Alpine Heavy Duty Grab
KUP	Kullenberg piston	SMS	Small Mud Snapper
KUG	Kullenberg gravity	VVS	Van Veen Grab
PHL	Phleger gravity	BED	Birge-Ekman Dredge
MEG	Modified Ewing gravity	DLS	Dietz-LaFond Snapper
MEP	Modified Ewing piston	OPG	Orange Peel Grab
VIB	Vibrocorer	SBS	Scoopfish Bottom Sampler
BOM	Boomerang		
EWP	Ewing piston		
EWG	Ewing gravity		

LENGTH	Length of core recorded in centimeters as observed in the laboratory.
PENETRATION	Penetration of coring device recorded in centimeters as observed in the field.
DEPTH	The uncorrected sonic sounding in meters.
ANALYZED	Date in day, month, and year that core was analyzed in the laboratory.
I.D. No.	Three or four digit laboratory project number followed by consecutive number assigned to each subsample analyzed.
INTERVAL	Interval of subsample as measured in centimeters from the top of the core.
MM	Particle diameter size intervals based on Wentworth size grades in millimeters.

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PER — Percent of total sample weight within the given size interval.

GRAVEL, SAND SILT, CLAY — Percent of total sample weight within the four size classes.

Class ranges are:

1. Gravel - coaser than 2 mm
2. Sand - 2 to 0.0625 mm
3. Silt - 0.0625 to 0.0039 mm
4. Clay - finer than 0.0039

MEAN (MM) — The geometric mean of the distribution expressed in millimeters.

MEAN (PHI) — The logarithmic mean of the distribution expressed in phi units ($-\log_2$) of the diameter in millimeters.

STAN DEV — Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean expressed in phi units.

$$s = \sqrt{\Sigma f\,(X_i - X)^2/100}$$

SKEWNESS — A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles; negative values denote skewness toward the coarse particles. A normal distribution has a skewness of 0.

$$\text{Skewness} = \frac{1}{100}\; 2\, s^{-3}\; \Sigma f\,(X_i - \bar{X})^3$$

KURTOSIS — A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. A normal curve has a kurtosis of 0.

$$\text{Kurtosis} = \frac{1}{100}\; s^{-4}\; \Sigma f\,(X_i - \bar{X})^4 - 3$$

$CaCO_3$ — Percent calcium carbonate of the total weight as determined by the insoluble residue method.

ORG CARBON — Percent organic carbon of the total sample weight as determined by the Allison method.

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COLOR	Wet sediment color, based on the Geological Society of America Rock-Color Chart, as determined in the laboratory.
DOM CONST	Dominant constituent (s) comprising the sample assemblage.
SEC CONST	Secondary constituent (s) comprising the sample assemblage.

LOG FOR GRAB SAMPLES

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Project No: 379
Location: Tampa Bay

Logged By Whitney
Date Logged 3 Sept '69

		Lab. No.	Color	Calc. Mat.	Sediment Type	Remarks
2402	Sample No: 1 Lat: 27°36.6'N Long: 82°46.9 Date: 02 Nov '68 Water depth: 14m	379 1	Variable 5Y 7/2	High shell	Sandy shell Hash	No Pipette
2636	Sample No: 2 Lat: 27°33.7'N Long: 82°45.6'W Date: 02 Nov '68 Water depth: 6m	379 2	5Y 7/2	High	Shell Hash and Sand	No Pipette
2423	Sample No: 3 Lat: 27°35.7'N Long: 82°52.2'W Date: 03 Nov '68 Water depth: 7m	379 3	N.B	High	Shelly sand	% Silt Only No Pipette
2490	Sample No: 4 Lat: 27°36.2'N Long: 82° 52.2'W Date: 03 Nov '68 Water depth: 12m	379 4	5Y5/1	Moderate to High	Shelly sand	% Silt Only No Pipette
2620	Sample No: 5 Lat: 27°35.0'N Long: 82°52.0'W Date: 03 Nov '68 Water depth: 13m	379 5	5Y5/2	High	Silty Sand	
2622	Sample No: 6 Lat: 27°36.3'N Long: 82°45.6'W Date: 03 Nov '68 Water depth: 30m	379 6	5Y5/1	High	Shell Hash	No Pipette
2454	Sample 7 Lat: 27°37.0'N Long: 82°52.0'W Date: 19 Mar '69 Water depth: 12m	379 7	5Y 6/2	Moderate	Silty sand	
2421	Sample No: 8 Lat: 27°33.1'N Long: 82°47.3'W Date: 19 Mar '69 Water depth: 6m	379 8	5Y 6/1	High shell	Sandy Shell Hash	% Silt Only No. Pipette
2491	Sample No: 9 Lat: 27°34.4'N Long: 82° 44.8'W Date: 19 Mar '69 Water depth: 6m	379 9	5Y 5/2	Moderate	Shelly Sand	% Silt Only No Pipette

LOG FOR GRAB SAMPLES

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Project No: 379
Location: Tampa Bay

Logged By Whitney
Date Logged 3 Sept '69

	Lab. No.	Color	Calc. Mat.	Sediment Type	Remarks
2631 Sample No: 10 Lat: 27° 36.3' N Long: 82° 43.7' W Date: 19 Mar '69 Water depth: 13 m	379 10	5 Y 4/2	High Shell	Shelly Sand	High Phosphate No Pipette
2467 Sample No: 11 Lat: 27° 36.5' N Long: 82° 41.7' W Date: 19 Mar '69 Water depth: 11 m	379 11	5 Y 5/2	Moderate	Shelly Sand	No Pipette
2407 Sample No: 12 Lat: 27° 36.4' N Long: 82° 46.9' W Date: 17 Apr '69 Water depth: 6 m	379 12	N 8	Slight	Sand	No Pipette
2439 Sample No: 13 Lat: 27° 36.2' N Long: 82° 45.6' W Date: 17 Apr '69 Water depth: 16 m	379 13	N 7	High	Shelly Sand	High Phosphate No Pipette
2460 Sample No: 14 Lat: 27° 36.8' N Long: 82° 43.5' W Date: 17 Apr '69 Water depth: 7 m	379 14	5 Y 6/1	High	Shelly, Silty Sand	
2430 Sample No: 15 Lat: 27° 37.5' N Long: 82° 41.1' W Date: 17 Apr '69 Water depth: 4 m	379 15	5 Y 5/1	Moderate	Shelly Sand	No Pipette
895 Sample No: 16 Lat: 27° 56.4' N Long: 82° 27.6' W Date: 24 Apr '69 Water depth: 4 m	379 16	5 Y 3/2		Organic Mud	
2831 Sample No: 6 b Lat: 27° 36.3' N Long: 82° 45.6' W Date: 03 Nov '68 Water depth: 30 m	379 17	5 Y 5/2		Shell and silt	Armored Mudball
Sample No: Lat: Long: Date: Water depth:					

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 01 LATITUDE 27 36.6 N LONGITUDE 82 46.9 W TAKEN 2NOV68 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.4 ANALYZED 3SEP69

ID. NO.	379 1					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	6.100					
4.0000	7.951					
2.0000	15.734					
1.0000	26.798					
0.5000	19.268					
0.2500	12.663					
0.1250	9.886					
0.0625	0.715					
0.0312	0.883					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	29.785					
SAND	69.331					
SILT	0.883					
CLAY	0.000					
MEAN (MM)	1.1361					
MEAN (PHI)	-0.1841					
STAN DEV	1.6879					
SKEWNESS	0.0301					
KURTOSIS	-0.3017					
CACO3	87.000					
ORG CARBON	0.000					
COLOR	5Y7/2					
DOM CONST	SHELL HASH					
SEC CONST	QUARTZ,PHOS.					

REMARKS 1 - EG.CLD
REMARKS 2 - EGM.CH.BUOY 10,FOREL 16.5,SECCHI W2.25M B1.5M,1415EST,0.1 CLOUD

MGG 0 9 0 0 5 0 3 2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 02 LATITUDE 27 33.7 N LONGITUDE 82 45.6 W TAKEN 2NOV68 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.6 ANALYZED 3SEP69

ID. NO. 379 2
INTERVAL 0.0- 0.0

MM	PER	PER	PER	PER	PER	PER	PER
16.0000	0.000						
8.0000	2.352						
4.0000	2.508						
2.0000	7.967						
1.0000	10.675						
0.5000	7.901						
0.2500	18.886						
0.1250	46.471						
0.0625	2.486						
0.0312	0.755						
0.0156	0.000						
0.0078	0.000						
0.0039	0.000						
0.0020	0.000						
0.0010	0.000						
0.0010-	0.000						
GRAVEL	12.827						
SAND	86.418						
SILT	0.755						
CLAY	0.000						
MEAN (MM)	-0.4096						
MEAN (PHI)	1.2876						
STAN DEV	1.6731						
SKEWNESS	-0.5305						
KURTOSIS	0.2995						
CACO3	33.000						
ORG CARBON	0.000						
COLOR	5Y7/2						
DOM CONST	QUARTZ						
SEC CONST	SHELL,PHOS						

REMARKS 1 - SW.C.4
REMARKS 2 - SW.CHAN.BUOY 4,SECCHI W3.0M B1.5M 1435EST,0.1 CLOUD,SEA STATE 4

MCG 0900508 2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 03 LATITUDE 27 35.7 N LONGITUDE 82 47.8 W TAKEN 3NOV68 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.7 ANALYZED 3SEP69

ID. NO.	379 3					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	4.052					
2.0000	9.883					
1.0000	10.190					
0.5000	6.507					
0.2500	5.341					
0.1250	55.310					
0.0625	7.980					
0.0312	0.737					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	13.935					
SAND	85.328					
SILT	0.737					
CLAY	0.000					
MEAN (MM)	0.3518					
MEAN (PHI)	1.5074					
STAN DEV	1.7173					
SKEWNESS	-0.4755					
KURTOSIS	-0.3966					
CACO3	38.000					
ORG CARBON	0.000					
COLOR	N8					
DOM CONST	QUARTZ					
SEC CONST	SHELL,PHOS.					

REMARKS 1 - W.EG.K
REMARKS 2 - 2MI.W.OF EGMONT KEY,ON SHOAL

MG0900503 2.

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 04 LATITUDE 27 36.2 N LONGITUDE 82 52.2 W TAKEN 3NOV68 MARSDEN SQ. 81
CORER TYPE ORG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.2 ANALYZED 3SEP69

ID. NO.	379 4					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.000					
2.0000	2.207					
1.0000	2.033					
0.5000	1.684					
0.2500	2.904					
0.1250	39.721					
0.0625	46.341					
0.0312	5.110					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	2.207					
SAND	92.683					
SILT	5.110					
CLAY	0.000					
MEAN (MM)	0.1383					
MEAN (PHI)	2.8537					
STAN DEV	1.0840					
SKEWNESS	-0.9984					
KURTOSIS	5.3823					
CACO3	20.000					
ORG CARBON	0.000					
COLOR	5Y5/1					
DOM CONST	QUARTZ					
SEC CONST	SHELL,PHOS.					

REMARKS 1 - EG.C 1
REMARKS 2 - EGMONT BUOY 1,FOREL 11;SECCHI W3.75M B2.0M,CLEAR,1200EST

0900503 2

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA , SAMPLE 05 LATITUDE 27 35.0 N LONGITUDE 82 52.0 W TAKEN 3NOV68 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.3 ANALYZED 3SEP69

ID. NO. 379 5
INTERVAL 0.0- 0.0

MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.000					
2.0000	0.741					
1.0000	0.949					
0.5000	1.296					
0.2500	2.985					
0.1250	48.854					
0.0625	28.905					
0.0312	3.078					
0.0156	1.620					
0.0078	1.273					
0.0039	0.694					
0.0020	1.273					
0.0010	2.199					
0.0010-	6.133					

GRAVEL	0.741
SAND	82.990
SILT	6.665
CLAY	9.604

MEAN (MM)	0.0829
MEAN (PHI)	3.5919
STAN DEV	2.3429
SKEWNESS	0.9409
KURTOSIS	3.1963

CACO3	50.000
ORG CARBON	0.000
COLOR	5Y5/2
DOM CONST	QUARTZ
SEC CONST	SHELL

REMARKS 1 - S.FG 1
REMARKS 2 - 1MI.S.OF E6.0UOY 1,FOREL 11,SECCHI W4.0M B2.25M,1220EST,CLEAR

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 06 LATITUDE 27 36.3 N LONGITUDE 82 45.6 W TAKEN 3NOV68 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 3.0 ANALYZED 3SEP69

ID. NO.	379 6	379 17				
INTERVAL	0.0- 0.0	0.0- 0.0				
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000	0.000				
8.0000	0.645	0.000				
4.0000	1.066	0.000				
2.0000	5.188	0.000				
1.0000	13.657	0.000				
0.5000	22.743	0.000				
0.2500	40.494	0.000				
0.1250	15.003	0.000				
0.0625	0.252	0.810				
0.0312	0.953	1.135				
0.0156	0.000	9.724				
0.0078	0.000	12.966				
0.0039	0.000	2.431				
0.0020	0.000	9.724				
0.0010	0.000	12.966				
0.0010-	0.000	50.243				
GRAVEL	6.898	0.000				
SAND	92.148	0.810				
SILT	0.953	26.256				
CLAY	0.000	72.934				
MEAN (MM)	0.5167	0.0020				
MEAN (PHI)	0.9526	8.9733				
STAN DEV	1.2323	1.9281				
SKEWNESS	-0.3001	-0.4646				
KURTOSIS	0.9270	-0.5633				
CACO3	27.000	66.000				
ORG CARBON	0.000	0.000				
COLOR	5Y5/1	5Y5/2				
DOM CONST	SHELL,PHOS.	QUARTZ TRACE				
SEC CONST	QUARTZ	SILT,CLAY				

REMARKS 1 - EG.DEP
REMARKS 2 - EGMONT DEEP HOLE N.OF PIER,SECCHI W2.5M B1.5M. ARMORED MUDBALLS

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 07 LATITUDE 27 37.0 N LONGITUDE 82 52.0 W TAKEN 19MAR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.2 ANALYZED 3SEP69

ID. NO.	379 7					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.000					
2.0000	0.642					
1.0000	0.668					
0.5000	1.181					
0.2500	2.542					
0.1250	33.436					
0.0625	38.367					
0.0312	5.187					
0.0156	2.311					
0.0078	1.798					
0.0039	1.156					
0.0020	1.156					
0.0010	2.440					
0.0010-	9.117					
GRAVEL	0.642					
SAND	76.194					
SILT	10.452					
CLAY	12.712					
MEAN (MM)	0.0599					
MEAN (PHI)	4.0611					
STAN DEV	2.5730					
SKEWNESS	0.7643					
KURTOSIS	1.5392					
CACO3	27.000					
ORG CARBON	0.000					
COLOR	5Y6/2					
DOM CONST	QUARTZ					
SEC CONST	SHELL					

REMARKS 1 - N.EG.1
REMARKS 2 - 1MI.N.OF EGM.CHAN.1, FOREL 9.5,SECCHI W2.0M B1.5M,1155EST,CLEAR

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 08 LATITUDE 27 33.1 N LONGITUDE 82 47.3 W TAKEN 19MAR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.6 ANALYZED 3SEP69

ID. NO.	379 8					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.826					
2.0000	5.083					
1.0000	15.041					
0.5000	21.901					
0.2500	37.479					
0.1250	18.678					
0.0625	0.744					
0.0312	0.248					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	5.909					
SAND	93.843					
SILT	0.248					
CLAY	0.000					
MEAN (MM)	0.4987					
MEAN (PHI)	1.0037					
STAN DEV	1.1844					
SKEWNESS	-0.2406					
KURTOSIS	-0.1322					
CACO3	46.000					
ORG CARBON	0.000					
COLOR	5Y6/1					
DOM CONST	QUARTZ					
SEC CONST	SHELL,PHOS.					

REMARKS 1 - SW.C.3
REMARKS 2 - SW.CHAN.BUOY 3 1545EST

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 09 LATITUDE 27 34.4 N LONGITUDE 82 44.8 W TAKEN 19MAR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.6 ANALYZED 3SEP69

ID. NO. 379 9
INTERVAL 0.0- 0.0

MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	2.689					
2.0000	2.437					
1.0000	5.084					
0.5000	7.689					
0.2500	38.529					
0.1250	41.765					
0.0625	1.050					
0.0312	0.756					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					

GRAVEL	5.126
SAND	94.118
SILT	0.756
CLAY	0.000
MEAN (MM)	0.3294
MEAN (PHI)	1.6021
STAN DEV	1.2030
SKEWNESS	-0.7471
KURTOSIS	2.6910
CACO3	29.000
ORG CARBON	0.000
COLOR	5Y5/2
DOM CONST	QUARTZ
SEC CONST	SHELL

REMARKS 1 - SW.C.6
REMARKS 2 - SW.CHAN.BUOY 6 1600EST

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 10 LATITUDE 27 36.3 N LONGITUDE 82 43.7 W TAKEN 19MAR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.3 ANALYZED 3SEP69

ID. NO.	379 10					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	1.486					
2.0000	6.687					
1.0000	14.423					
0.5000	17.657					
0.2500	18.575					
0.1250	32.823					
0.0625	6.993					
0.0312	1.355					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	8.173					
SAND	90.472					
SILT	1.355					
CLAY	0.000					
MEAN (MM)	0.4108					
MEAN (PHI)	1.2837					
STAN DEV	1.5087					
SKEWNESS	-0.1960					
KURTOSIS	-0.5983					
CACO3	59.000					
ORG CARBON	0.000					
COLOR	5Y4/2					
DOM CONST	QUARTZ					
SEC CONST	SHELL,PHOS.					

REMARKS 1 - MK.1A
REMARKS 2 - MULLET KEY CHAN.BUOY 10A 1615EST

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 11 LATITUDE 27 36.5 N LONGITUDE 82 41.7 W TAKEN 19MAR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.1 ANALYZED 3SEP69

ID. NO.	379 11						
INTERVAL	0.0- 0.0						
MM	PER	PER	PER	PER	PER	PER	
16.0000	0.000						
8.0000	2.126						
4.0000	2.386						
2.0000	4.300						
1.0000	5.245						
0.5000	3.756						
0.2500	15.143						
0.1250	60.761						
0.0625	3.567						
0.0312	2.717						
0.0156	0.000						
0.0078	0.000						
0.0039	0.000						
0.0020	0.000						
0.0010	0.000						
0.0010-	0.000						
GRAVEL	8.812						
SAND	88.472						
SILT	2.717						
CLAY	0.000						
MEAN (MM)	0.2897						
MEAN (PHI)	1.7873						
STAN DEV	1.5684						
SKEWNESS	-0.8190						
KURTOSIS	2.4821						
CACO3	25.000						
ORG CARBON	0.000						
COLOR	5Y5/2						
DOM CONST	QUARTZ						
SEC CONST	SHELL,PHOS.						

REMARKS 1 - MK.1
REMARKS 2 - MULLET KEY CHAN.BUOY 14 1630EST

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MG0900503 2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 12 LATITUDE 27 36.4 N LONGITUDE 82 46.9 W TAKEN 17APR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.6 ANALYZED 3SEP69

ID. NO. 379 12
INTERVAL 0.0- 0.0

MM	PER	PER	PER	PER	PER	PER	PER
16.0000	0.000						
8.0000	0.000						
4.0000	0.000						
2.0000	0.530						
1.0000	0.695						
0.5000	0.563						
0.2500	5.960						
0.1250	90.728						
0.0625	1.258						
0.0312	0.265						
0.0156	0.000						
0.0078	0.000						
0.0039	0.000						
0.0020	0.000						
0.0010	0.000						
0.0010-	0.000						
GRAVEL	0.530						
SAND	99.205						
SILT	0.265						
CLAY	0.000						
MEAN (MM)	0.1888						
MEAN (PHI)	2.4050						
STAN DEV	0.4936						
SKEWNESS	-2.1929						
KURTOSIS	29.1895						
CACO3	15.000						
ORG CARBON	0.000						
COLOR	N8						
DOM CONST	QUARTZ						
SEC CONST	SHELL						

REMARKS 1 - S.EGIO
REMARKS 2 - 1/2MI.S.OF EGM.CHAN.BUOY 10;N.EDGE OF SHOAL OR SPOIL BANK

MCG0 9 0 0 5 0 3 2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 13 LATITUDE 27 36.2 N LONGITUDE 82 45.6 W TAKEN 17APR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 1.6 ANALYZED 3SEP69

ID. NO.	379 13					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.460					
2.0000	1.840					
1.0000	2.975					
0.5000	4.262					
0.2500	20.178					
0.1250	69.672					
0.0625	0.429					
0.0312	0.184					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	2.300					
SAND	97.516					
SILT	0.184					
CLAY	0.000					
MEAN (MM)	0.2440					
MEAN (PHI)	2.0351					
STAN DEV	0.9192					
SKEWNESS	-1.1592					
KURTOSIS	5.9953					
CACO3	13.000					
ORG CARBON	0.000					
COLOR	N7					
DOM CONST	QUARTZ					
SEC CONST	SHELL,PHOS					

REMARKS 1 - N.EGPR
REMARKS 2 - 100M.N.OF EGMONT KEY PIER

MC09005032

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 14 LATITUDE 27 36.8 N LONGITUDE 82 43.5 W TAKEN 17APR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.7 ANALYZED 3SEP69

ID. NO.	379 14					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	1.455					
4.0000	3.144					
2.0000	6.738					
1.0000	10.545					
0.5000	12.663					
0.2500	11.551					
0.1250	30.203					
0.0625	14.888					
0.0312	0.898					
0.0156	0.321					
0.0078	0.856					
0.0039	0.321					
0.0020	0.642					
0.0010	1.283					
0.0010-	4.492					
GRAVEL	11.337					
SAND	79.850					
SILT	2.396					
CLAY	6.417					
MEAN (MM)	0.2474					
MEAN (PHI)	2.0153					
STAN DEV	2.8088					
SKEWNESS	0.5927					
KURTOSIS	2.3669					
CACO3	55.000					
ORG CARBON	0.000					
COLOR	5Y6/1					
DOM CONST	QUARTZ					
SEC CONST	SHELL,PHOS					

REMARKS 1 - S.MKPR
REMARKS 2 - 200M.S.OF MULLET KEY PIER

MGG09005032

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 15 LATITUDE 27 37.5 N LONGITUDE 82 41.1 W TAKEN 17APR69 MARSDEN SQ. 81
CORER TYPE OPG LENGTH 0.0 PENETRATION 0.0 DEPTH 0.4 ANALYZED 3SEP69

ID. NO.	379 15					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.000					
2.0000	0.034					
1.0000	1.708					
0.5000	5.091					
0.2500	17.253					
0.1250	66.758					
0.0625	7.106					
0.0312	2.050					
0.0156	0.000					
0.0078	0.000					
0.0039	0.000					
0.0020	0.000					
0.0010	0.000					
0.0010-	0.000					
GRAVEL	0.034					
SAND	97.916					
SILT	2.050					
CLAY	0.000					
MEAN (MM)	0.2052					
MEAN (PHI)	2.2851					
STAN DEV	0.8014					
SKEWNESS	-0.3923					
KURTOSIS	2.6489					
CACO3	19.000					
ORG CARBON	0.000					
COLOR	5Y5/1					
DOM CONST	QUARTZ					
SEC CONST	SHELL					

REMARKS 1 - MK.SOL
REMARKS 2 - MULLET KEY SHOAL

MGG09005082

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAMPA SAMPLE 16 LATITUDE 27 56.4 N LONGITUDE 82 27.6 W TAKEN 24APR69 MARSDEN SQ. 81
CORER TYPE PHL LENGTH 0.0 PENETRATION 0.0 DEPTH 0.4 ANALYZED 3SEP69

ID. NO.	379 16					
INTERVAL	0.0- 0.0					
MM	PER	PER	PER	PER	PER	PER
16.0000	0.000					
8.0000	0.000					
4.0000	0.000					
2.0000	0.000					
1.0000	0.000					
0.5000	0.114					
0.2500	0.570					
0.1250	6.613					
0.0625	26.226					
0.0312	19.156					
0.0156	5.131					
0.0078	3.421					
0.0039	2.281					
0.0020	1.710					
0.0010	1.140					
0.0010-	33.637					
GRAVEL	0.000					
SAND	33.523					
SILT	29.989					
CLAY	36.488					
MEAN (MM)	0.0117					
MEAN (PHI)	6.4156					
STAN DEV	3.1604					
SKEWNESS	0.1690					
KURTOSIS	-1.6284					
CACO3	10.000					
ORG CARBON	15.000					
COLOR	5Y3/2					
DOM CONST	ORGANIC MUD					
SEC CONST	QUARTZ					

REMARKS 1 - HILSR.
REMARKS 2 - HILLSBOROUGH RIVER MOUTH,AT DAVIS ISLAND FORK.

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