

Onshore Grab Sample

Sample: FG-08-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 34' 21.2"
Longitude: 81° 10' 18.0"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 113.529 grams
Total Fines in Sample 0.859 grams
Total Percent Fines 0.75 %

Dry Sieving Summary

Total Sample Weight 112.636 grams
Total Digested Weight 53.446 grams
Total Carbonate Weight 59.190 grams
Total Silica % 47.45 %
Total Carbonate % 52.55 %
Carbonate/Silica Ratio 1.107

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-08-BB

Total Sample Mass: 112.636 grams

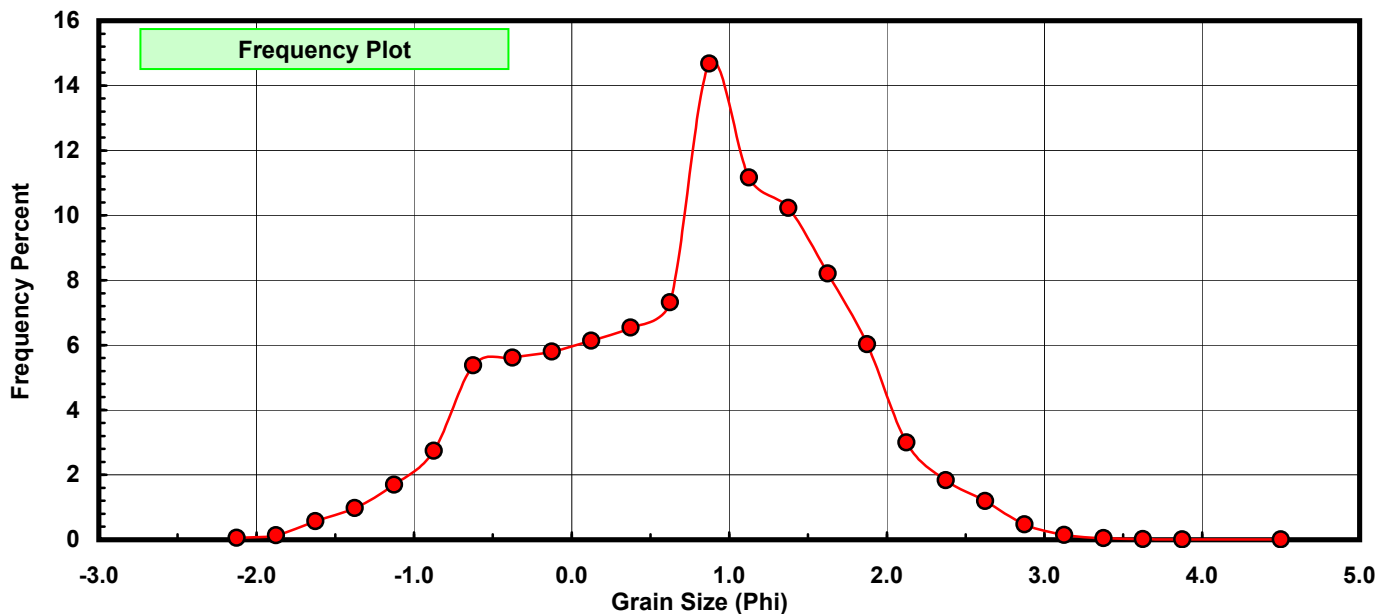
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.069	0.061	0.061
-1.75	-1.875	0.154	0.137	0.198
-1.50	-1.625	0.642	0.570	0.768
-1.25	-1.375	1.100	0.977	1.745
-1.00	-1.125	1.910	1.696	3.440
-0.75	-0.875	3.093	2.746	6.186
-0.50	-0.625	6.059	5.379	11.566
-0.25	-0.375	6.327	5.617	17.183
0.00	-0.125	6.531	5.798	22.981
0.25	0.125	6.911	6.136	29.117
0.50	0.375	7.362	6.536	35.653
0.75	0.625	8.239	7.315	42.968
1.00	0.875	16.531	14.676	57.644
1.25	1.125	12.572	11.162	68.806
1.50	1.375	11.525	10.232	79.038
1.75	1.625	9.242	8.205	87.243
2.00	1.875	6.784	6.023	93.266
2.25	2.125	3.383	3.003	96.269
2.50	2.375	2.064	1.832	98.102
2.75	2.625	1.340	1.190	99.292
3.00	2.875	0.534	0.474	99.766
3.25	3.125	0.171	0.152	99.917
3.50	3.375	0.053	0.047	99.964
3.75	3.625	0.022	0.020	99.984
4.00	3.875	0.010	0.009	99.993
5.00	4.500	0.008	0.007	100.000

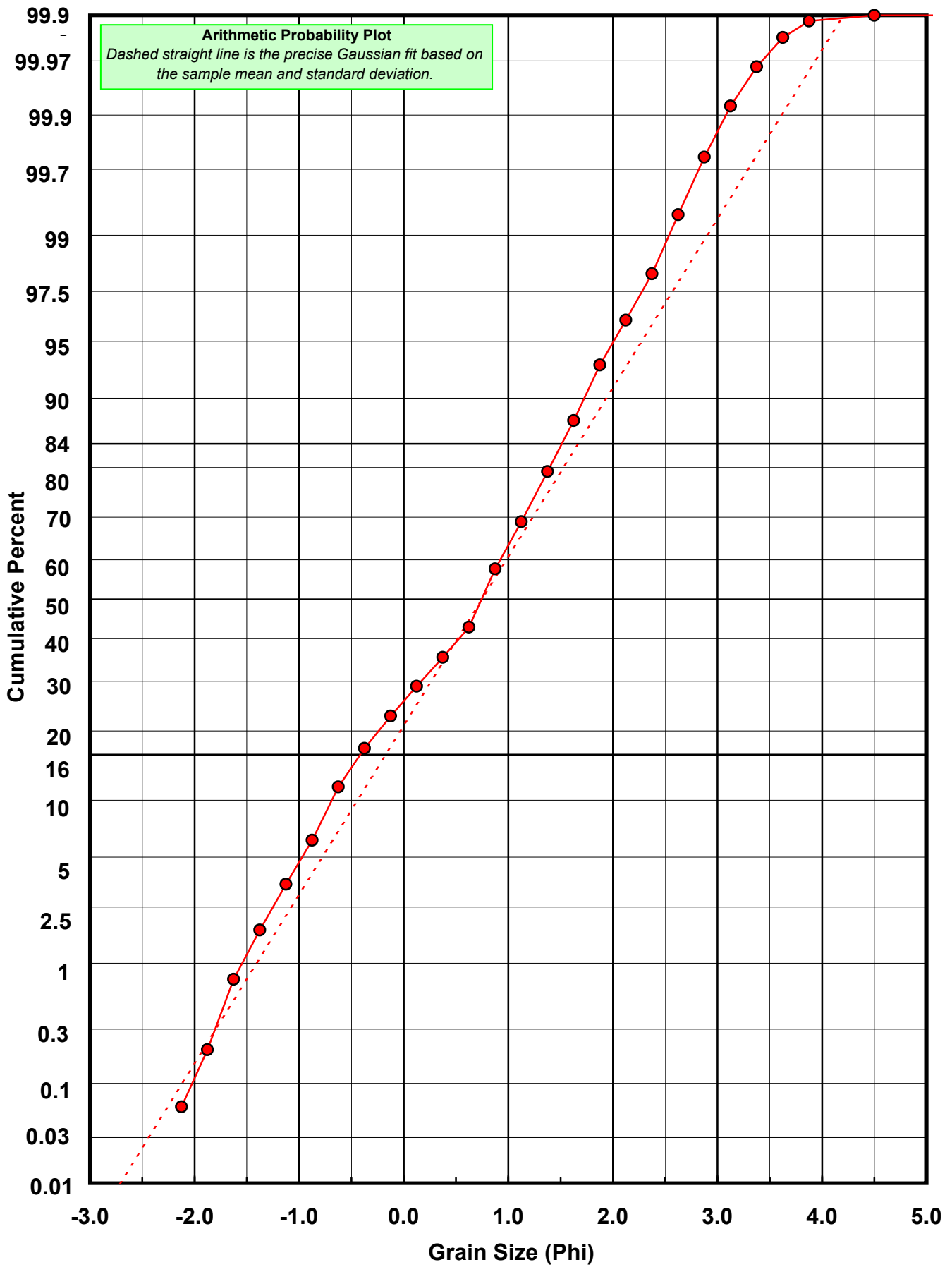
Statistical Results			
Mean:	0.7472	phi	(0.5958 mm)
Standard Dev:	0.9288	phi-units	(0.5253 mm)
Skewness:	-0.2726	dimensionless	
Kurtosis:	2.6578	dimensionless	
5th Moment:	-1.3633	dimensionless	
6th Moment:	10.8821	dimensionless	
RARD *	1.2431	dimensionless	
Median	0.7448	phi	(0.5968 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Calculation Sheets	
Millimeter data calculated by $mm = 2^{(-phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: FG-08-BB

Total Carbonate Mass: 59.182 grams

% Carbonate: 52.5 %

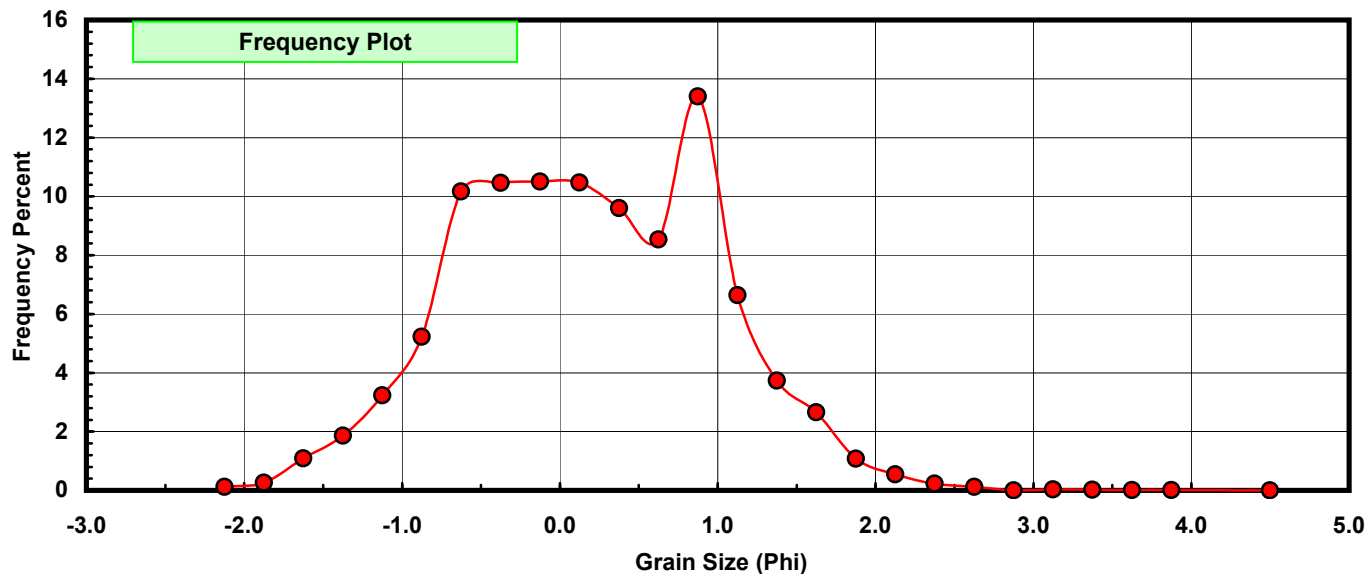
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.069	0.117	0.117
-1.75	-1.875	0.154	0.260	0.377
-1.50	-1.625	0.642	1.085	1.462
-1.25	-1.375	1.100	1.859	3.320
-1.00	-1.125	1.910	3.227	6.548
-0.75	-0.875	3.093	5.226	11.774
-0.50	-0.625	6.016	10.165	21.939
-0.25	-0.375	6.188	10.456	32.395
0.00	-0.125	6.217	10.505	42.900
0.25	0.125	6.200	10.476	53.376
0.50	0.375	5.682	9.601	62.977
0.75	0.625	5.053	8.538	71.515
1.00	0.875	7.930	13.399	84.914
1.25	1.125	3.927	6.635	91.550
1.50	1.375	2.210	3.734	95.284
1.75	1.625	1.574	2.660	97.944
2.00	1.875	0.640	1.081	99.025
2.25	2.125	0.320	0.541	99.566
2.50	2.375	0.137	0.231	99.797
2.75	2.625	0.072	0.122	99.919
3.00	2.875	0.001	0.002	99.921
3.25	3.125	0.021	0.035	99.956
3.50	3.375	0.010	0.017	99.973
3.75	3.625	0.007	0.012	99.985
4.00	3.875	0.009	0.015	100.000
5.00	4.500	0.000	0.000	100.000

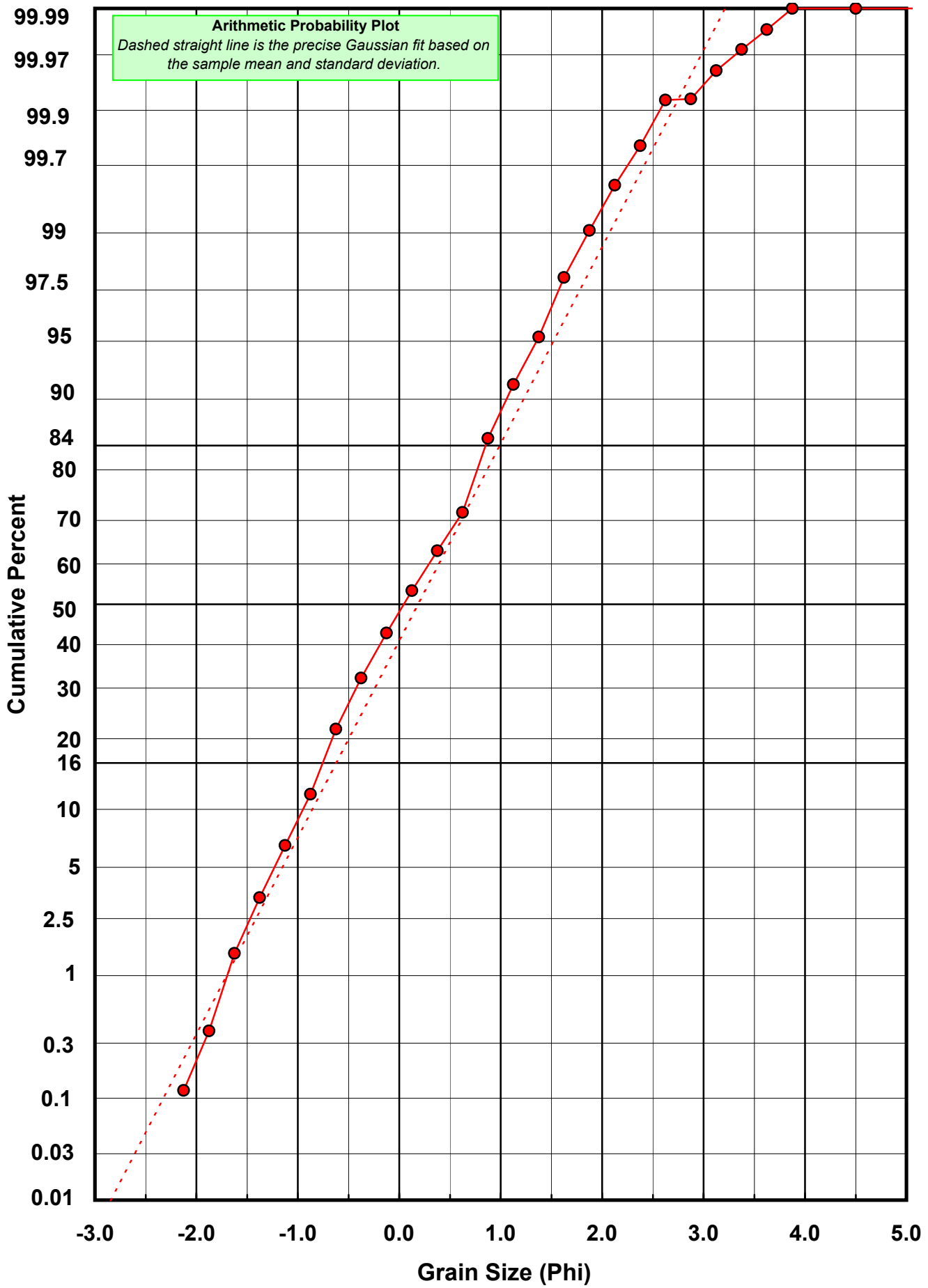
Statistical Results			
Mean:	0.1837	phi	(0.8805 mm)
Standard Dev:	0.8134	phi-units	(0.569 mm)
Skewness:	0.0578	dimensionless	
Kurtosis:	2.6678	dimensionless	
5th Moment:	1.0211	dimensionless	
6th Moment:	13.1569	dimensionless	
RARD *	4.4288	dimensionless	
Median	0.0444	phi	(0.9697 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Calculation Sheets	
Millimeter data calculated by $mm = 2^{(-phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-08-BB

Total Digested Mass: 53.446 grams

% Silica: 47.5 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.043	0.080	0.080
-0.25	-0.375	0.139	0.260	0.341
0.00	-0.125	0.314	0.588	0.928
0.25	0.125	0.711	1.330	2.258
0.50	0.375	1.680	3.143	5.402
0.75	0.625	3.186	5.961	11.363
1.00	0.875	8.601	16.093	27.456
1.25	1.125	8.645	16.175	43.631
1.50	1.375	9.315	17.429	61.060
1.75	1.625	7.668	14.347	75.407
2.00	1.875	6.144	11.496	86.903
2.25	2.125	3.063	5.731	92.634
2.50	2.375	1.927	3.606	96.239
2.75	2.625	1.268	2.372	98.612
3.00	2.875	0.533	0.997	99.609
3.25	3.125	0.150	0.281	99.890
3.50	3.375	0.043	0.080	99.970
3.75	3.625	0.015	0.028	99.998
4.00	3.875	0.001	0.002	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.3706	phi	(0.3867 mm)
Standard Dev:	0.5881	phi-units	(0.6652 mm)
Skewness:	0.2051	dimensionless	
Kurtosis:	3.2266	dimensionless	
5th Moment:	1.3817	dimensionless	
6th Moment:	17.6492	dimensionless	
RARD *	0.4291	dimensionless	
Median	1.2164	phi	(0.4304 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Calculation Sheets	
Millimeter data calculated by $mm = 2^{(-phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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