Onshore Grab Sample

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

County: Flagler
Latitude: 29° 31' 32.6"
Longitude: 81° 08' 56.3"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	97.682	grams
Total Fines in Sample	0.685	grams
Total Percent Fines	0.70	%

Dry Sieving Summary

Total Sample Weight	96.573	grams
Total Digested Weight	33.668	grams
Total Carbonate Weight	62.905	grams
Total Silica %	34.86	%
Total Carbonate %	65.14	%
Carbonate/Silica Ratio	1.868	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-12-SS

Total Sample Mass: 96.573 grams

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	0.070	0.072	0.072
-1.50	-1.625	0.018	0.019	0.091
-1.25	-1.375	0.152	0.157	0.249
-1.00	-1.125	0.362	0.375	0.623
-0.75	-0.875	1.633	1.691	2.314
-0.50	-0.625	5.129	5.311	7.625
-0.25	-0.375	9.407	9.741	17.366
0.00	-0.125	12.805	13.259	30.626
0.25	0.125	11.955	12.379	43.005
0.50	0.375	10.285	10.650	53.655
0.75	0.625	7.582	7.851	61.506
1.00	0.875	9.638	9.980	71.486
1.25	1.125	6.435	6.663	78.149
1.50	1.375	5.666	5.867	84.016
1.75	1.625	4.768	4.937	88.953
2.00	1.875	4.239	4.389	93.343
2.25	2.125	2.870	2.972	96.315
2.50	2.375	1.952	2.021	98.336
2.75	2.625	1.117	1.157	99.493
3.00	2.875	0.390	0.404	99.896
3.25	3.125	0.084	0.087	99.983
3.50	3.375	0.015	0.016	99.999
3.75	3.625	0.001	0.001	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.5572	phi	(0.6796 mm)
Standard Dev:	0.8561	phi-units	(0.5524 mm)
Skewness:	0.4901	dimensionless	
Kurtosis:	2.5783	dimensionless	
5th Moment:	2.8732	dimensionless	
6th Moment:	10.4341	dimensionless	
RARD *	1.5363	dimensionless	
Median	0.2892	phi	(0.8184 mm)

* RARD = reciprocal absolute relative dispersion (see below)

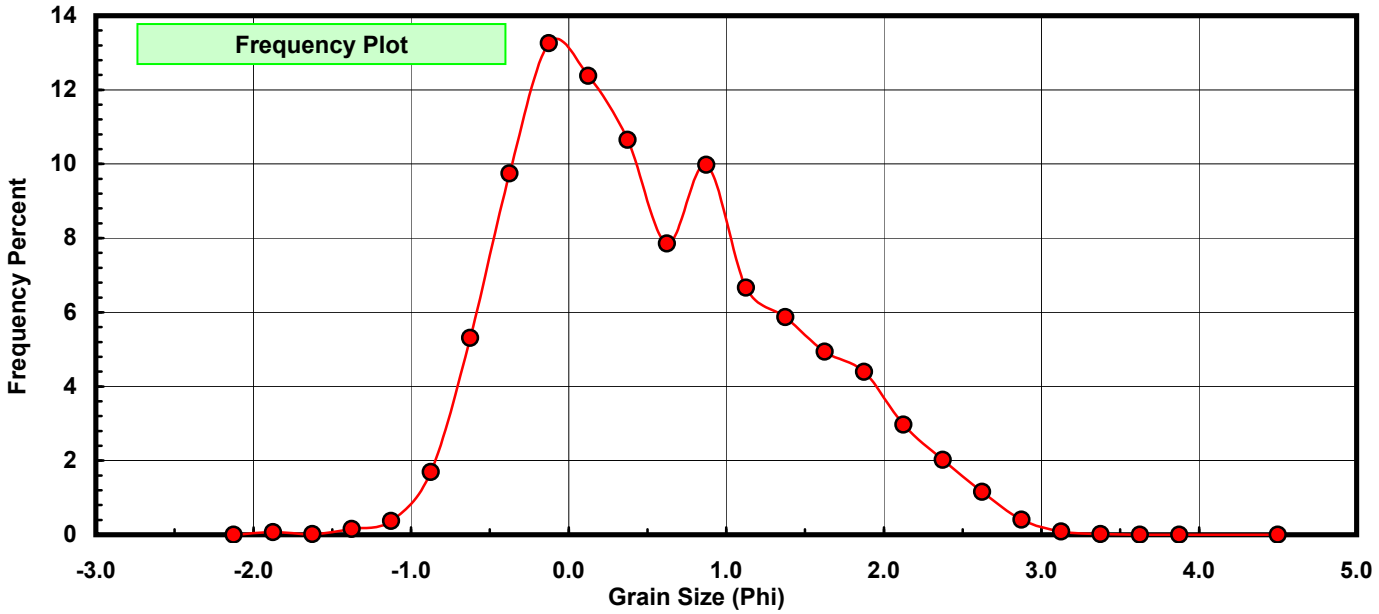
Statistical Explanation

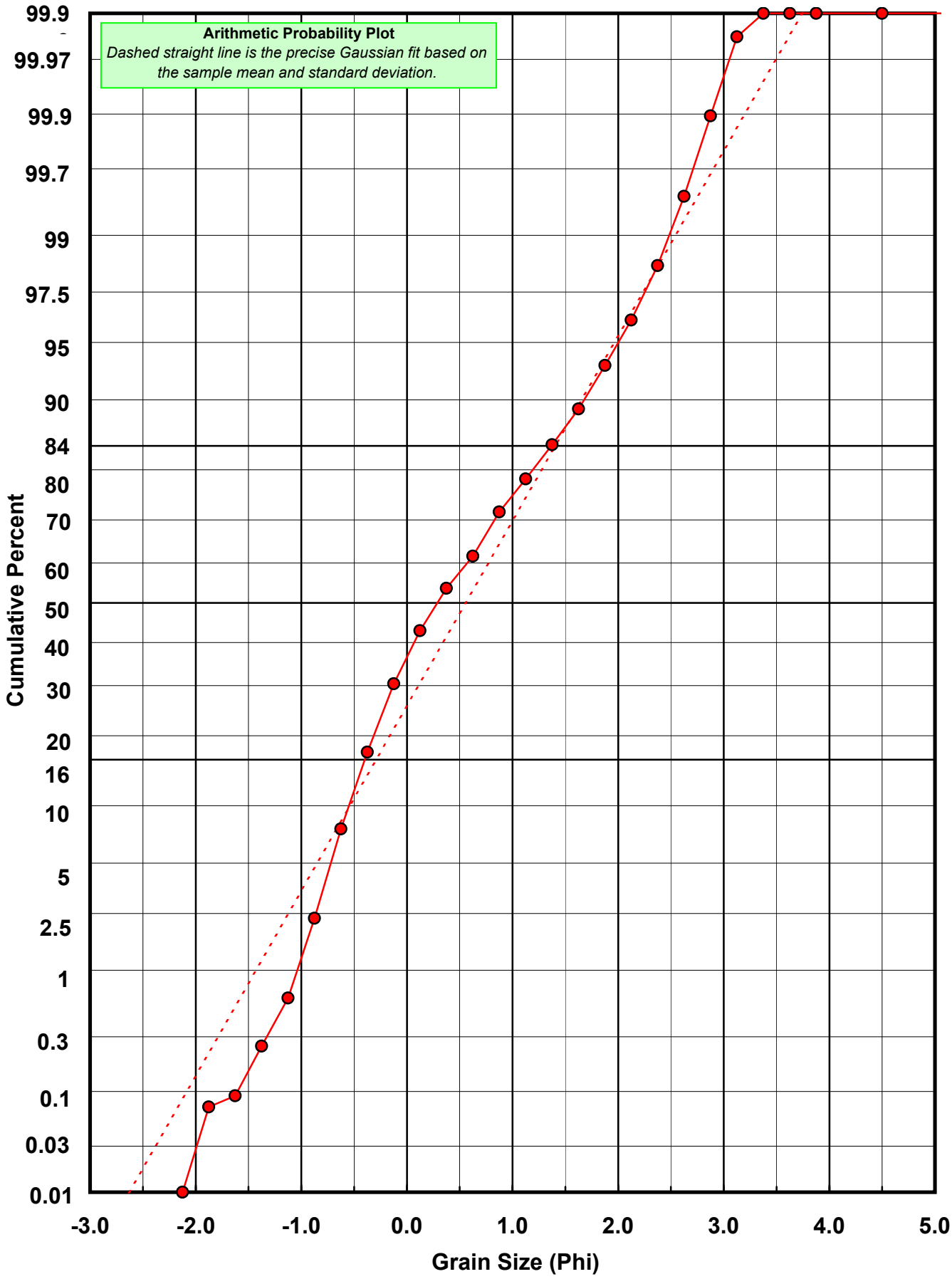
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.9
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: FG-12-SS

Total Carbonate Mass: 63.121 grams

% Carbonate: 65.1 %

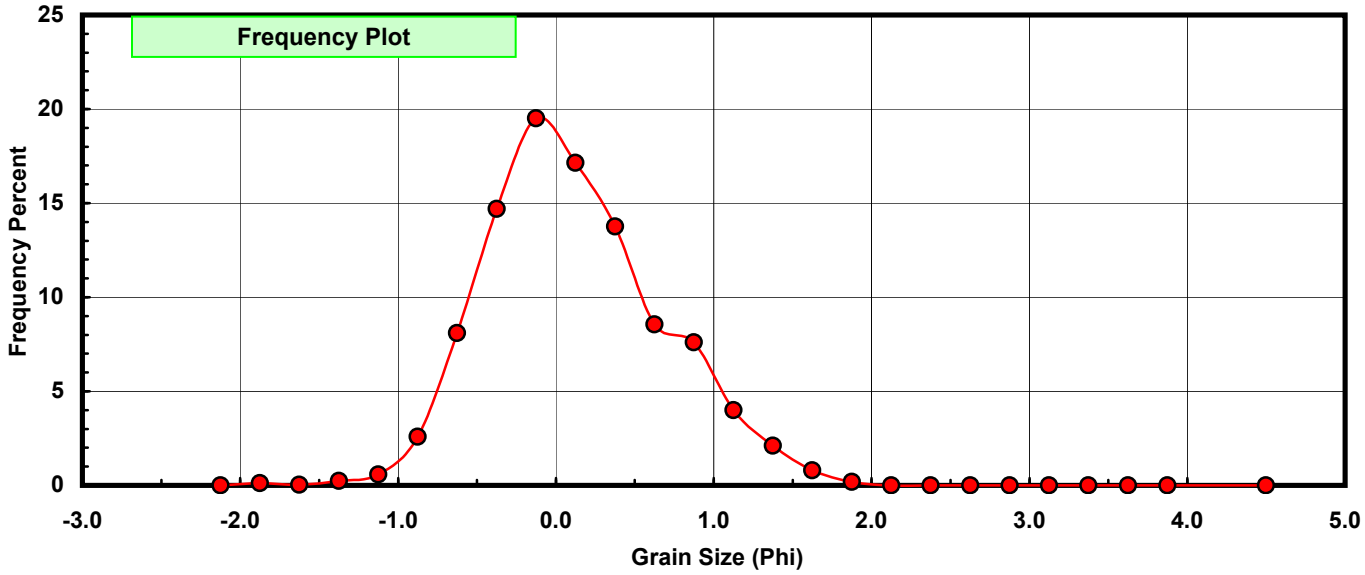
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.070	0.111	0.111
-1.50	-1.625	0.018	0.029	0.139
-1.25	-1.375	0.152	0.241	0.380
-1.00	-1.125	0.362	0.574	0.954
-0.75	-0.875	1.633	2.587	3.541
-0.50	-0.625	5.114	8.102	11.643
-0.25	-0.375	9.270	14.686	26.329
0.00	-0.125	12.316	19.512	45.841
0.25	0.125	10.818	17.139	62.979
0.50	0.375	8.684	13.758	76.737
0.75	0.625	5.397	8.550	85.287
1.00	0.875	4.801	7.606	92.893
1.25	1.125	2.524	3.999	96.892
1.50	1.375	1.332	2.110	99.002
1.75	1.625	0.509	0.806	99.808
2.00	1.875	0.121	0.192	100.000
2.25	2.125	0.000	0.000	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

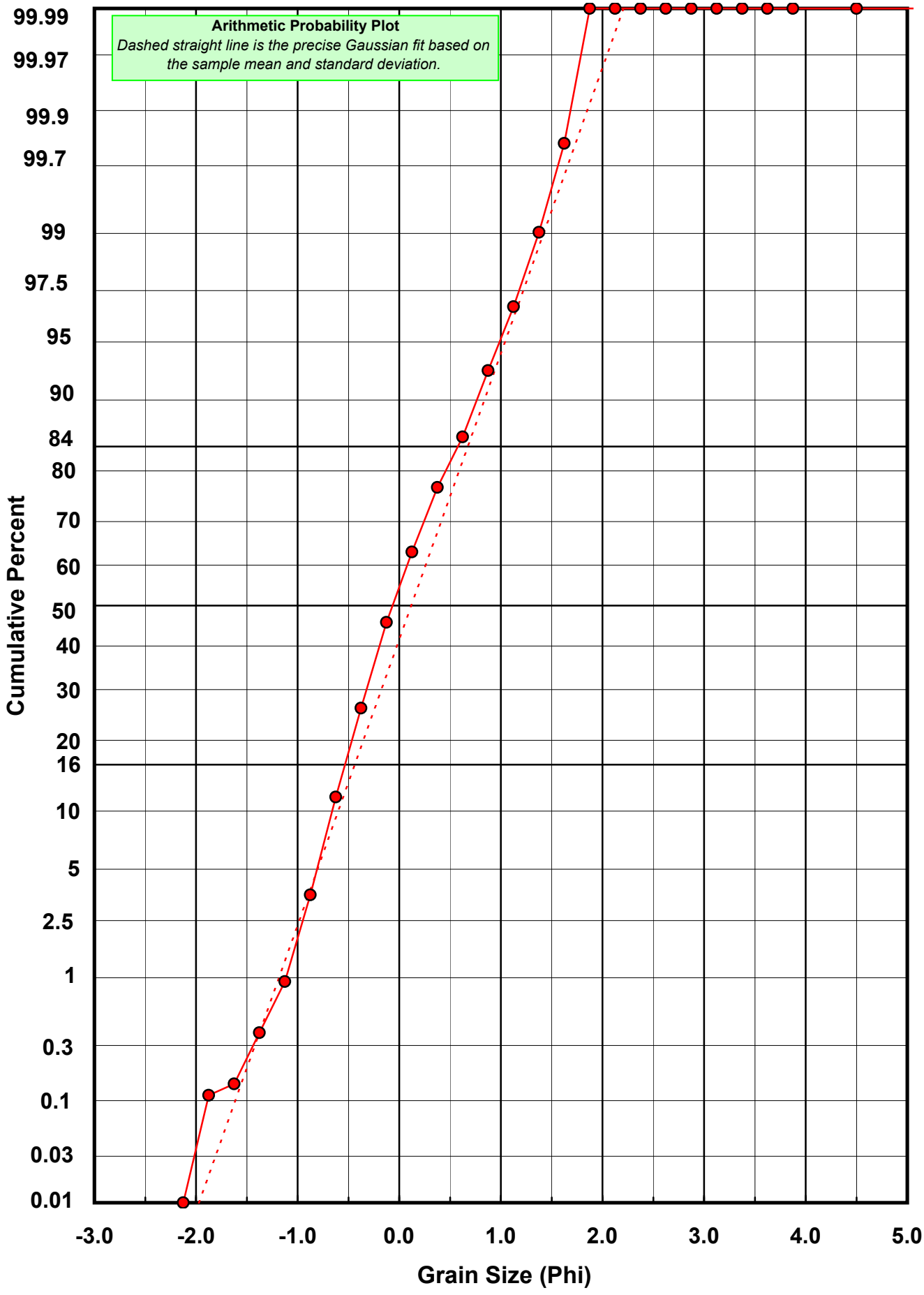
Statistical Results			
Mean:	0.1187	phi	(0.921 mm)
Standard Dev:	0.5610	phi-units	(0.6778 mm)
Skewness:	0.3356	dimensionless	
Kurtosis:	2.9721	dimensionless	
5th Moment:	1.8517	dimensionless	
6th Moment:	14.8991	dimensionless	
RARD *	4.7277	dimensionless	
Median	-0.0643	phi	(1.0456 mm)

* 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)




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-12-SS

Total Digested Mass: 33.668 grams

% Silica: 34.9 %

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	0.015	0.045	0.045
-0.25	-0.375	0.137	0.407	0.451
0.00	-0.125	0.489	1.452	1.904
0.25	0.125	1.137	3.377	5.281
0.50	0.375	1.601	4.755	10.036
0.75	0.625	2.185	6.490	16.526
1.00	0.875	4.837	14.367	30.893
1.25	1.125	3.911	11.616	42.509
1.50	1.375	4.334	12.873	55.382
1.75	1.625	4.259	12.650	68.032
2.00	1.875	4.118	12.231	80.263
2.25	2.125	2.882	8.560	88.823
2.50	2.375	1.978	5.875	94.698
2.75	2.625	1.195	3.549	98.248
3.00	2.875	0.437	1.298	99.546
3.25	3.125	0.120	0.356	99.902
3.50	3.375	0.028	0.083	99.985
3.75	3.625	0.005	0.015	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.3937	phi	(0.3806 mm)
Standard Dev:	0.6972	phi-units	(0.6168 mm)
Skewness:	-0.0268	dimensionless	
Kurtosis:	2.5098	dimensionless	
5th Moment:	-0.2012	dimensionless	
6th Moment:	9.2952	dimensionless	
RARD *	0.5002	dimensionless	
Median	1.2705	phi	(0.4145 mm)

* RARD = reciprocal absolute relative dispersion (see below)

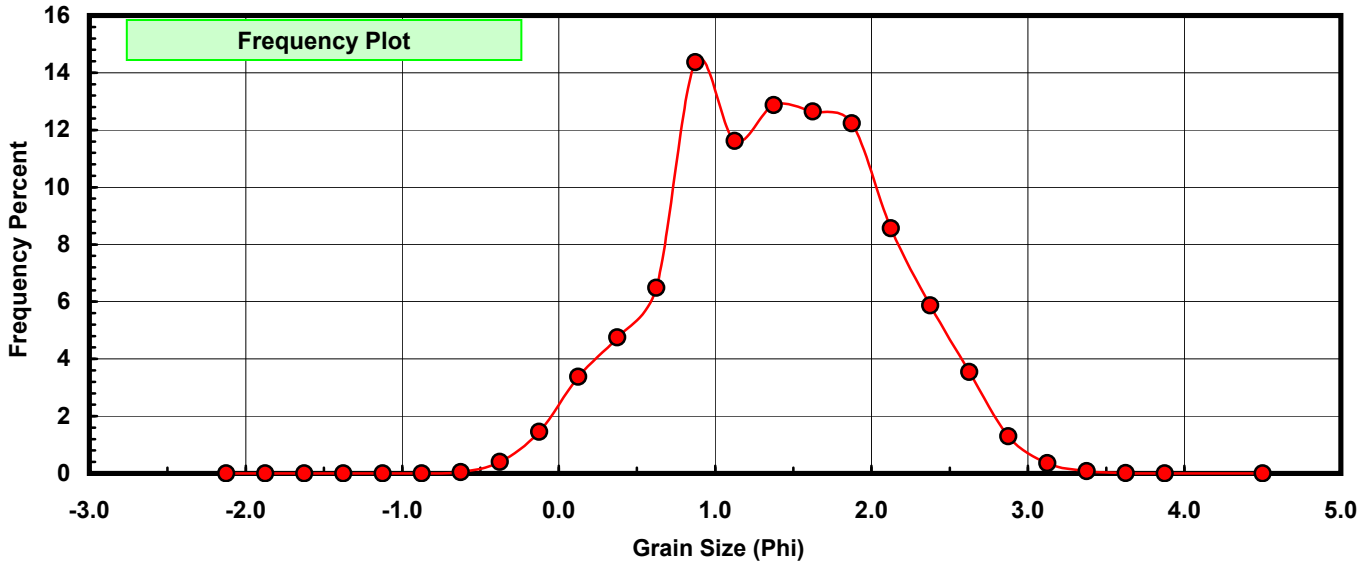
Statistical Explanation

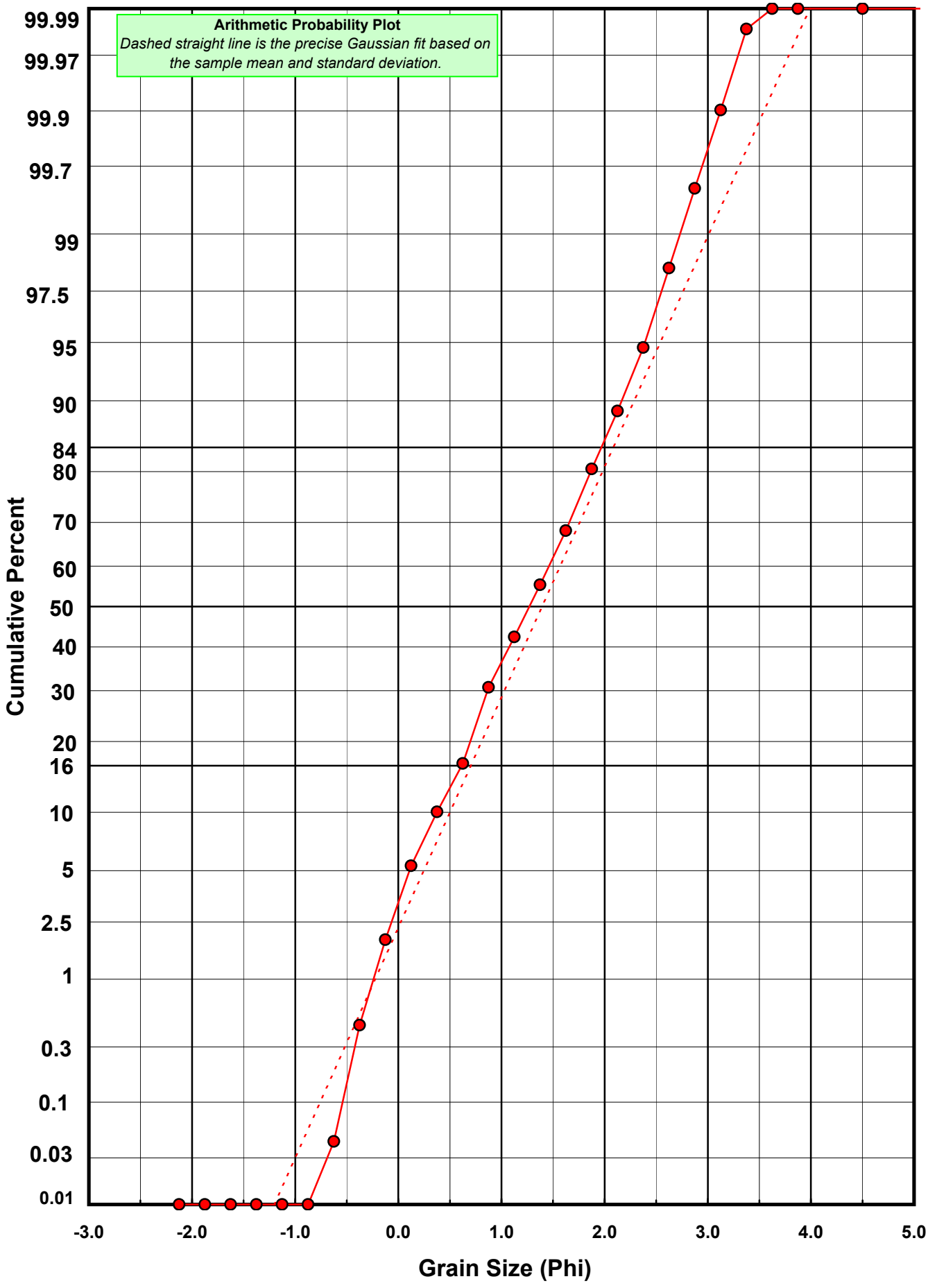
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)