Onshore Grab Sample

Sample: FG-16-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 28' 37.9"
Longitude: 81° 07' 31.2"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	76.414	grams
Total Fines in Sample	0.024	grams
Total Percent Fines	0.03	%

Dry Sieving Summary

Total Sample Weight	76.283	grams
Total Digested Weight	49.530	grams
Total Carbonate Weight	26.753	grams
Total Silica %	64.93	%
Total Carbonate %	35.07	%
Carbonate/Silica Ratio	0.540	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-16-BB

Total Sample Mass: 76.283 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.128	0.168	0.168
-1.75	-1.875	0.000	0.000	0.168
-1.50	-1.625	0.019	0.025	0.193
-1.25	-1.375	0.060	0.079	0.271
-1.00	-1.125	0.219	0.287	0.558
-0.75	-0.875	0.442	0.579	1.138
-0.50	-0.625	1.450	1.901	3.039
-0.25	-0.375	2.158	2.829	5.868
0.00	-0.125	2.746	3.600	9.467
0.25	0.125	3.075	4.031	13.498
0.50	0.375	3.091	4.052	17.550
0.75	0.625	3.832	5.023	22.574
1.00	0.875	6.336	8.306	30.880
1.25	1.125	6.914	9.064	39.943
1.50	1.375	9.172	12.024	51.967
1.75	1.625	9.460	12.401	64.368
2.00	1.875	10.452	13.702	78.070
2.25	2.125	7.422	9.730	87.799
2.50	2.375	5.215	6.836	94.636
2.75	2.625	2.908	3.812	98.448
3.00	2.875	0.843	1.105	99.553
3.25	3.125	0.228	0.299	99.852
3.50	3.375	0.079	0.104	99.955
3.75	3.625	0.024	0.031	99.987
4.00	3.875	0.009	0.012	99.999
5.00	4.500	0.001	0.001	100.000

Statistical Results			
Mean:	1.3251	phi	(0.3991 mm)
Standard Dev:	0.8663	phi-units	(0.5485 mm)
Skewness:	-0.6265	dimensionless	
Kurtosis:	3.0837	dimensionless	
5th Moment:	-4.8880	dimensionless	
6th Moment:	18.0407	dimensionless	
RARD *	0.6538	dimensionless	
Median	1.3341	phi	(0.3966 mm)

* RARD = reciprocal absolute relative dispersion (see below)

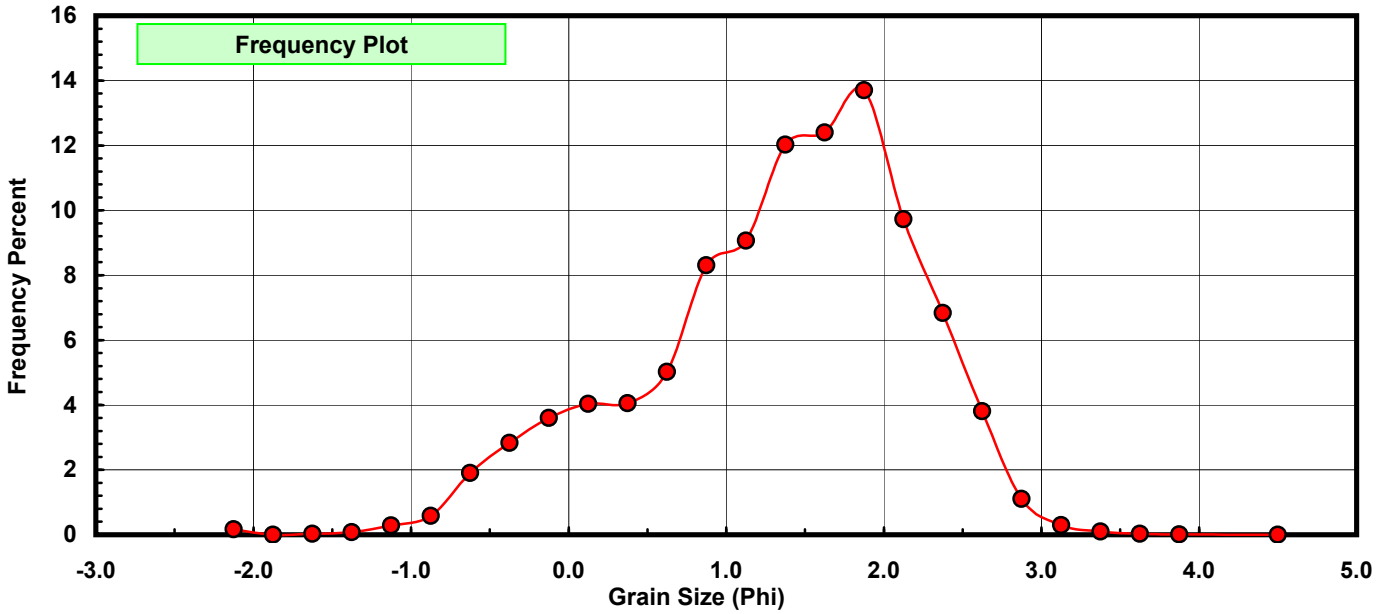
Statistical Explanation

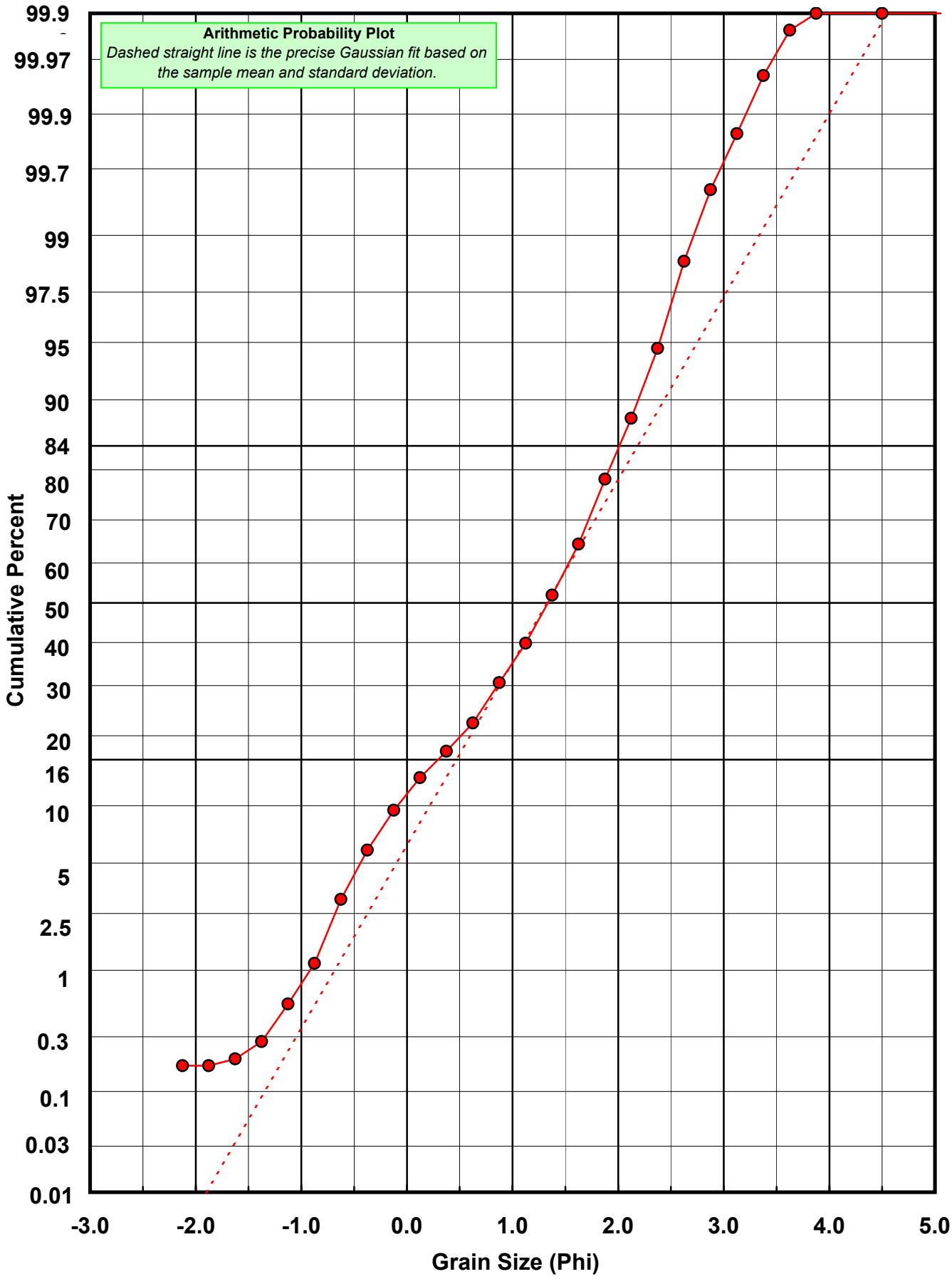
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-16-BB

Total Carbonate Mass: 27.010 grams

% Carbonate: 35.1 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.128	0.474	0.474
-1.75	-1.875	0.000	0.000	0.474
-1.50	-1.625	0.019	0.070	0.544
-1.25	-1.375	0.060	0.222	0.766
-1.00	-1.125	0.219	0.811	1.577
-0.75	-0.875	0.442	1.636	3.214
-0.50	-0.625	1.450	5.368	8.582
-0.25	-0.375	2.150	7.960	16.542
0.00	-0.125	2.660	9.848	26.390
0.25	0.125	2.843	10.526	36.916
0.50	0.375	2.658	9.841	46.757
0.75	0.625	2.976	11.018	57.775
1.00	0.875	3.358	12.432	70.207
1.25	1.125	2.392	8.856	79.063
1.50	1.375	2.457	9.097	88.160
1.75	1.625	1.203	4.454	92.614
2.00	1.875	1.397	5.172	97.786
2.25	2.125	0.286	1.059	98.845
2.50	2.375	0.179	0.663	99.508
2.75	2.625	0.107	0.396	99.904
3.00	2.875	0.015	0.056	99.959
3.25	3.125	0.009	0.033	99.993
3.50	3.375	0.000	0.000	99.993
3.75	3.625	0.000	0.000	99.993
4.00	3.875	0.002	0.007	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.5599	phi	(0.6783 mm)
Standard Dev:	0.8083	phi-units	(0.5711 mm)
Skewness:	-0.0524	dimensionless	
Kurtosis:	2.7484	dimensionless	
5th Moment:	-1.1433	dimensionless	
6th Moment:	14.3389	dimensionless	
RARD *	1.4436	dimensionless	
Median	0.4486	phi	(0.7328 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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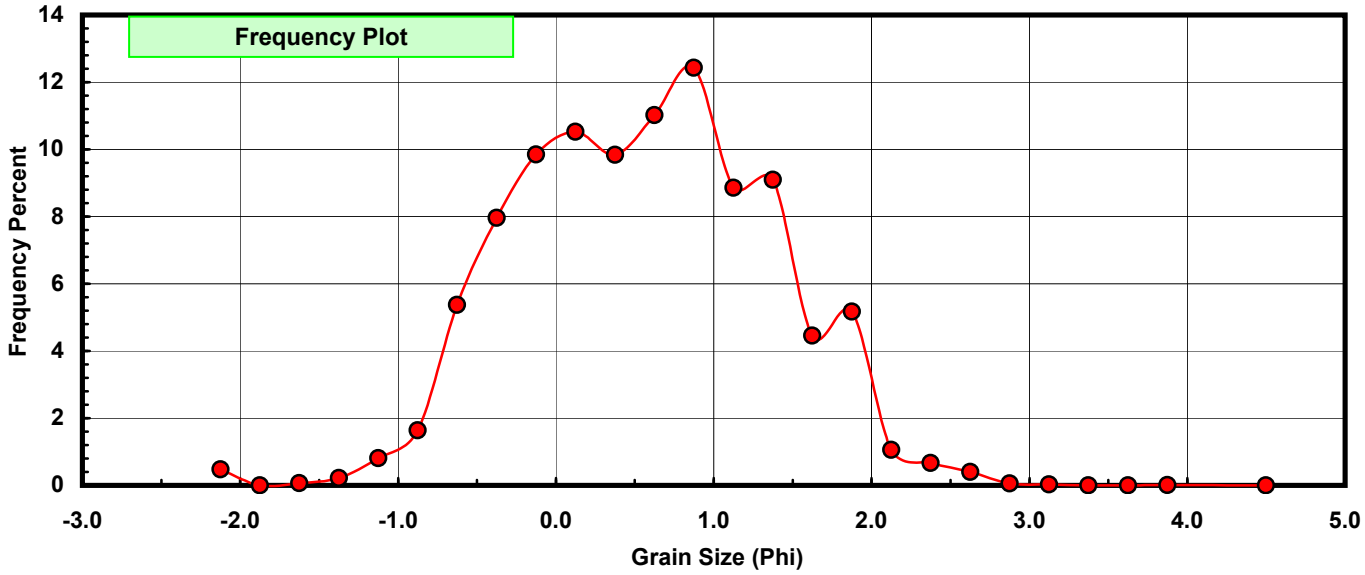
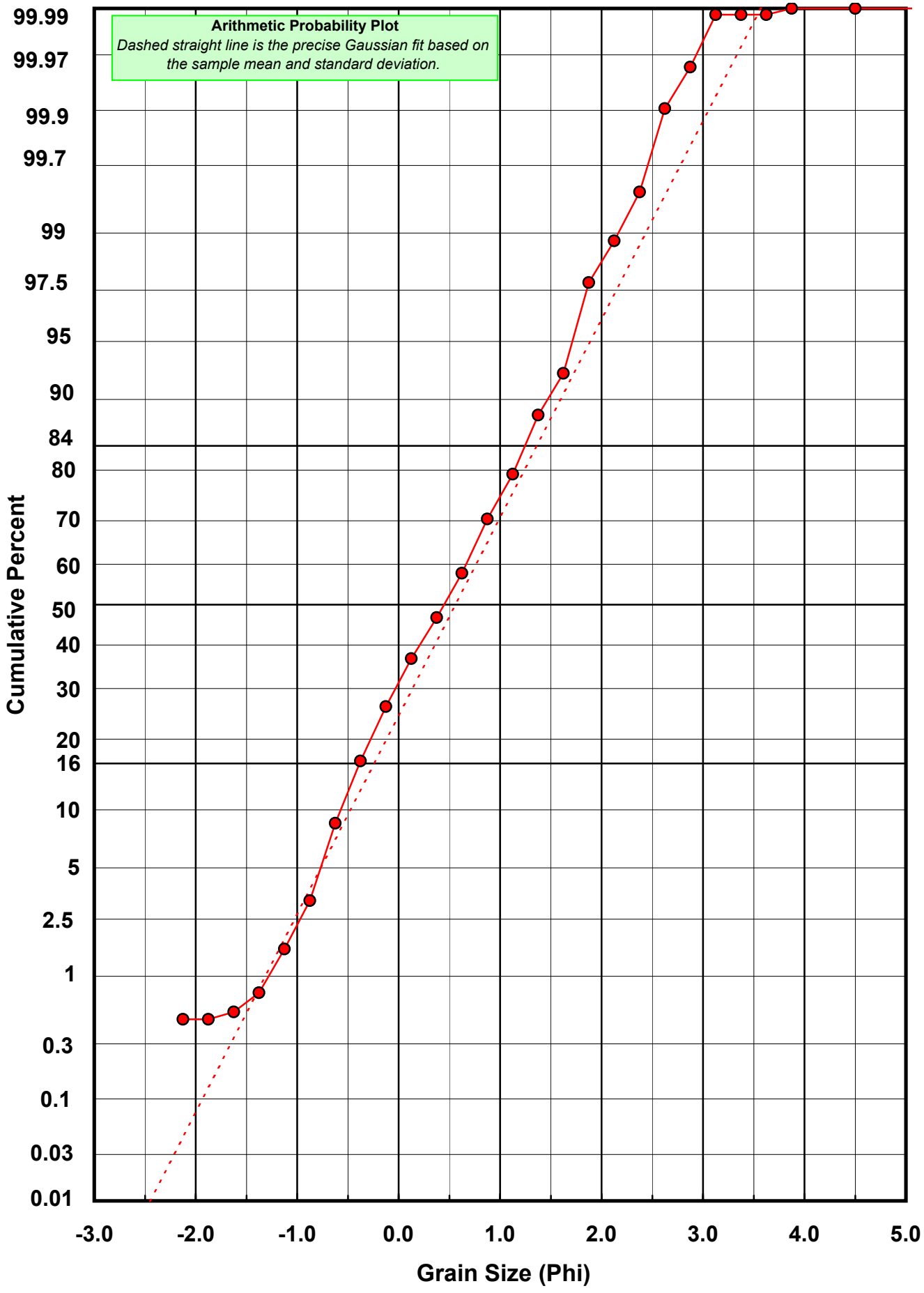
> 1.33	Poor homogeneity (e.g., glacial)




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-16-BB

Total Digested Mass: 49.529 grams

% Silica: 64.9 %

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	0.000	0.000	0.000
-0.25	-0.375	0.008	0.016	0.016
0.00	-0.125	0.086	0.174	0.190
0.25	0.125	0.232	0.468	0.658
0.50	0.375	0.433	0.874	1.532
0.75	0.625	0.856	1.728	3.261
1.00	0.875	2.978	6.013	9.273
1.25	1.125	4.522	9.130	18.403
1.50	1.375	6.715	13.558	31.961
1.75	1.625	8.257	16.671	48.632
2.00	1.875	9.055	18.282	66.914
2.25	2.125	7.136	14.408	81.322
2.50	2.375	5.036	10.168	91.490
2.75	2.625	2.801	5.655	97.145
3.00	2.875	0.828	1.672	98.817
3.25	3.125	0.219	0.442	99.259
3.50	3.375	0.080	0.162	99.421
3.75	3.625	0.280	0.565	99.986
4.00	3.875	0.007	0.014	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.7543	phi	(0.2964 mm)
Standard Dev:	0.5727	phi-units	(0.6723 mm)
Skewness:	-0.0169	dimensionless	
Kurtosis:	3.2862	dimensionless	
5th Moment:	0.4082	dimensionless	
6th Moment:	19.8619	dimensionless	
RARD *	0.3265	dimensionless	
Median	1.6437	phi	(0.32 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

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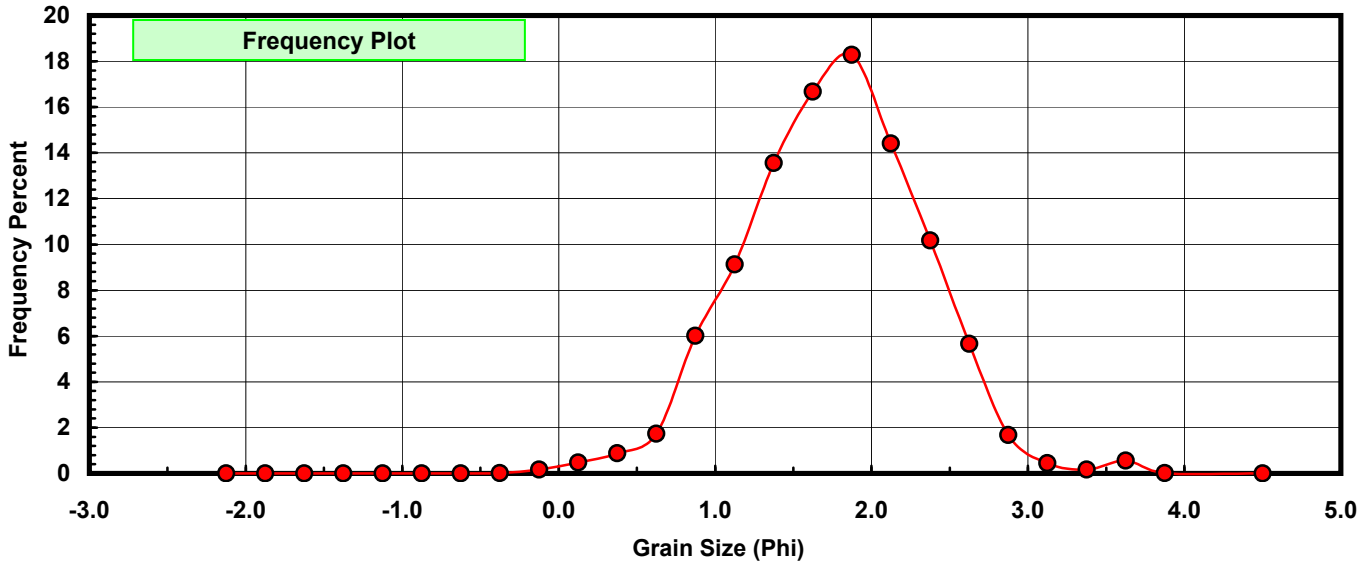

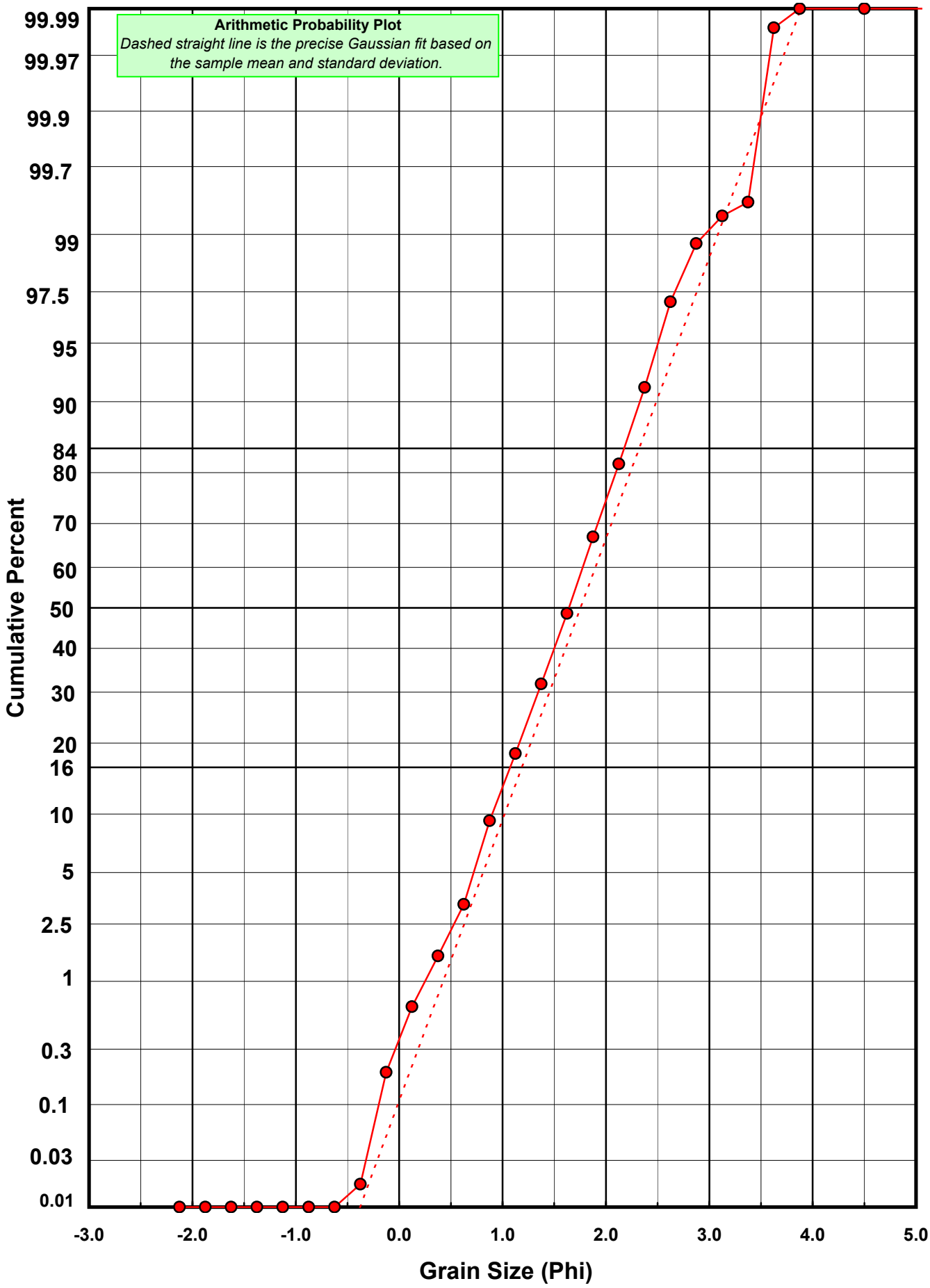
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0.1
0.03
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-2.0
-1.0
0.0
1.0
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3.0
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5.0
Grain Size (Phi)