Onshore Grab Sample

Sample: FG-07-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 35' 04.9"
Longitude: 81° 10' 36.4"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	89.276	grams
Total Fines in Sample	0.265	grams
Total Percent Fines	0.30	%

Dry Sieving Summary

Total Sample Weight	88.975	grams
Total Digested Weight	67.401	grams
Total Carbonate Weight	21.574	grams
Total Silica %	75.75	%
Total Carbonate %	24.25	%
Carbonate/Silica Ratio	0.320	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-07-BB

Total Sample Mass: 88.975 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	0.031	0.035	0.035
-1.50	-1.625	0.056	0.063	0.098
-1.25	-1.375	0.059	0.066	0.164
-1.00	-1.125	0.184	0.207	0.371
-0.75	-0.875	0.355	0.399	0.770
-0.50	-0.625	0.798	0.897	1.667
-0.25	-0.375	1.179	1.325	2.992
0.00	-0.125	1.363	1.532	4.524
0.25	0.125	1.951	2.193	6.716
0.50	0.375	2.526	2.839	9.555
0.75	0.625	4.537	5.099	14.655
1.00	0.875	9.844	11.064	25.718
1.25	1.125	11.365	12.773	38.492
1.50	1.375	13.949	15.677	54.169
1.75	1.625	12.586	14.146	68.315
2.00	1.875	10.320	11.599	79.913
2.25	2.125	7.626	8.571	88.484
2.50	2.375	5.516	6.199	94.684
2.75	2.625	3.348	3.763	98.447
3.00	2.875	0.957	1.076	99.522
3.25	3.125	0.227	0.255	99.777
3.50	3.375	0.081	0.091	99.869
3.75	3.625	0.055	0.062	99.930
4.00	3.875	0.027	0.030	99.961
5.00	4.500	0.035	0.039	100.000

Statistical Results			
Mean:	1.4031	phi	(0.3781 mm)
Standard Dev:	0.7362	phi-units	(0.6003 mm)
Skewness:	-0.5051	dimensionless	
Kurtosis:	3.8841	dimensionless	
5th Moment:	-5.4618	dimensionless	
6th Moment:	29.2849	dimensionless	
RARD *	0.5247	dimensionless	
Median	1.3085	phi	(0.4037 mm)

* RARD = reciprocal absolute relative dispersion (see below)

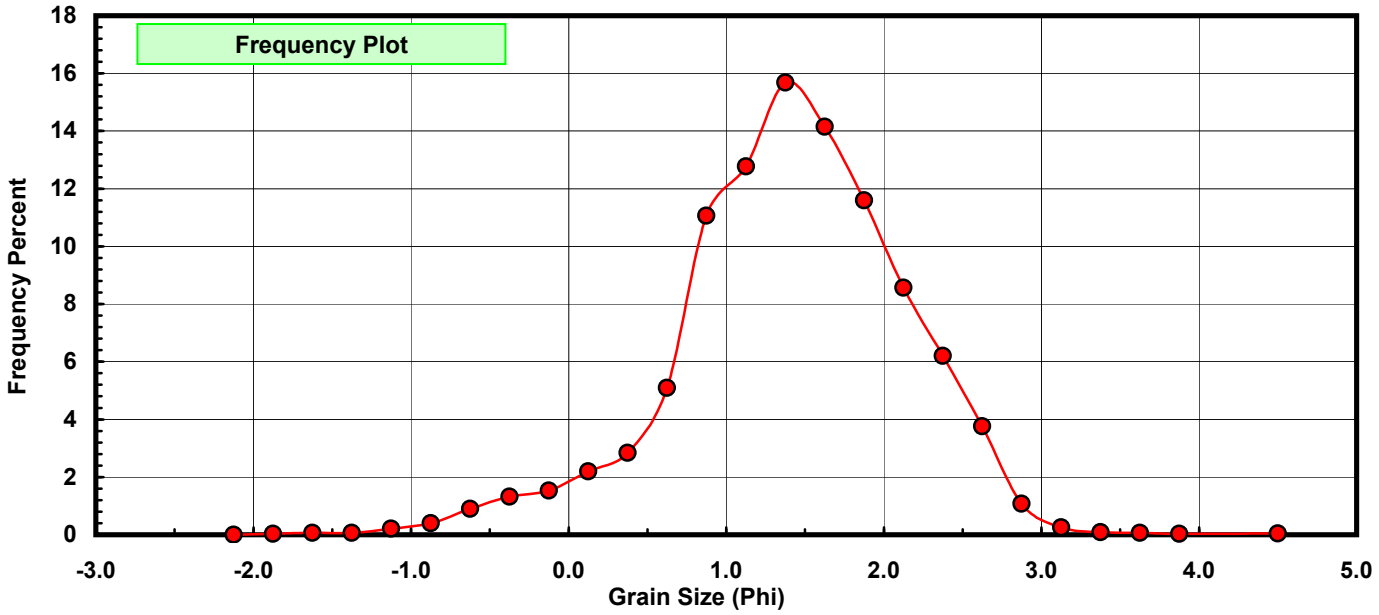
Statistical Explanation

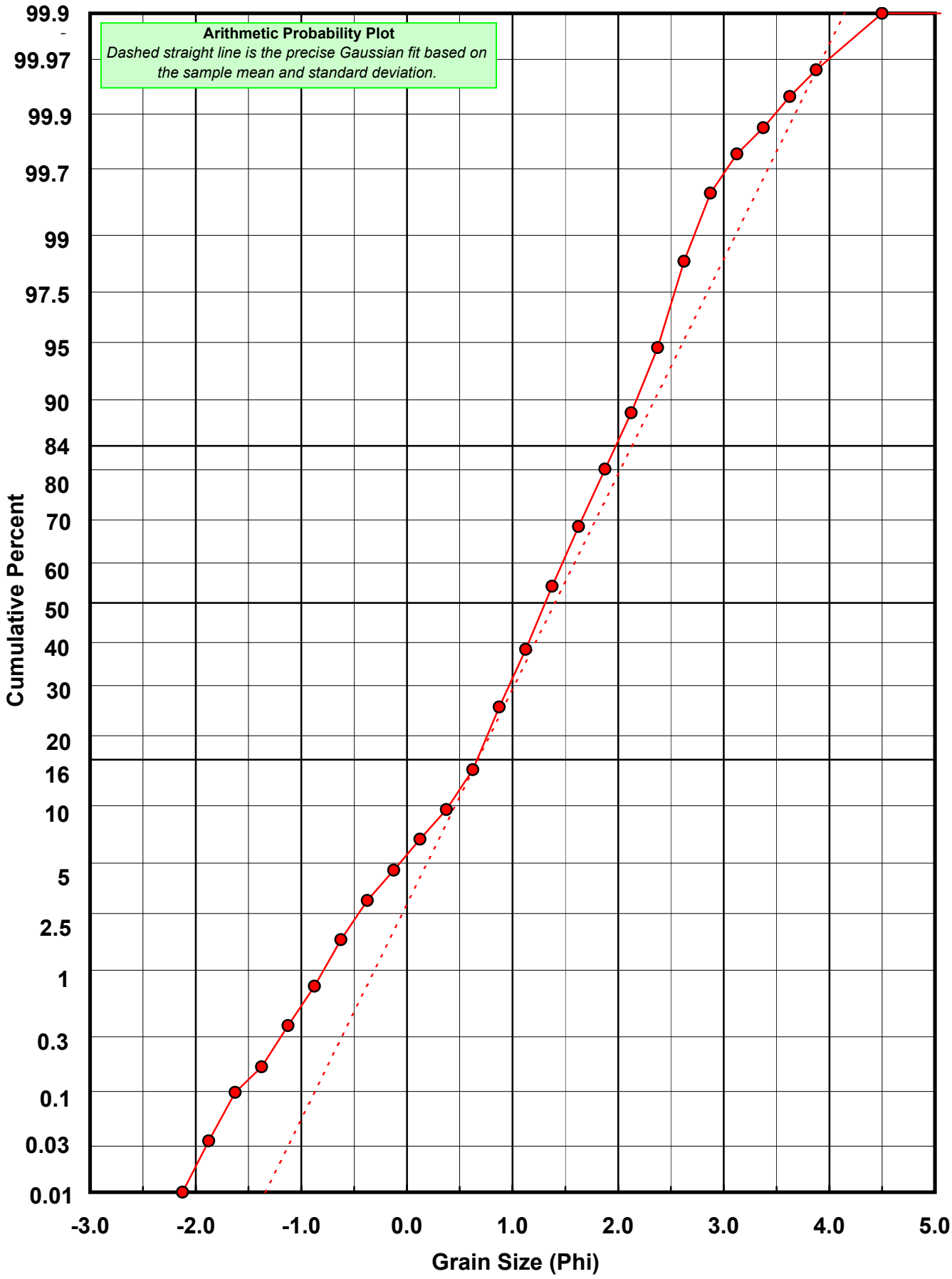
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-07-BB

Total Carbonate Mass: 21.757 grams

% Carbonate: 24.2 %

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	0.031	0.142	0.142
-1.50	-1.625	0.056	0.257	0.400
-1.25	-1.375	0.059	0.271	0.671
-1.00	-1.125	0.181	0.832	1.503
-0.75	-0.875	0.325	1.494	2.997
-0.50	-0.625	0.771	3.544	6.540
-0.25	-0.375	1.153	5.299	11.840
0.00	-0.125	1.298	5.966	17.806
0.25	0.125	1.751	8.048	25.854
0.50	0.375	1.932	8.880	34.734
0.75	0.625	2.970	13.651	48.384
1.00	0.875	4.464	20.518	68.902
1.25	1.125	2.426	11.150	80.052
1.50	1.375	2.324	10.682	90.734
1.75	1.625	1.783	8.195	98.929
2.00	1.875	0.020	0.092	99.021
2.25	2.125	0.139	0.639	99.660
2.50	2.375	0.000	0.000	99.660
2.75	2.625	0.000	0.000	99.660
3.00	2.875	0.000	0.000	99.660
3.25	3.125	0.000	0.000	99.660
3.50	3.375	0.019	0.087	99.747
3.75	3.625	0.035	0.161	99.908
4.00	3.875	0.020	0.092	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.6588	phi	(0.6334 mm)
Standard Dev:	0.7149	phi-units	(0.6092 mm)
Skewness:	-0.3326	dimensionless	
Kurtosis:	3.7538	dimensionless	
5th Moment:	0.3618	dimensionless	
6th Moment:	33.3424	dimensionless	
RARD *	1.0852	dimensionless	
Median	0.6447	phi	(0.6396 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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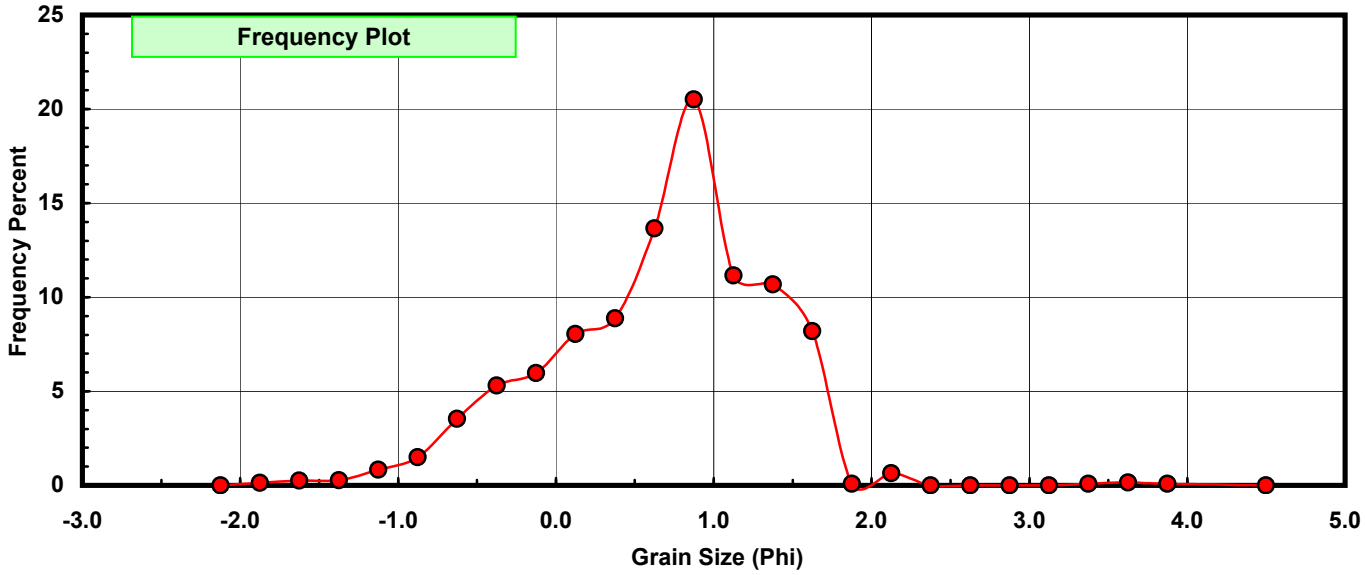

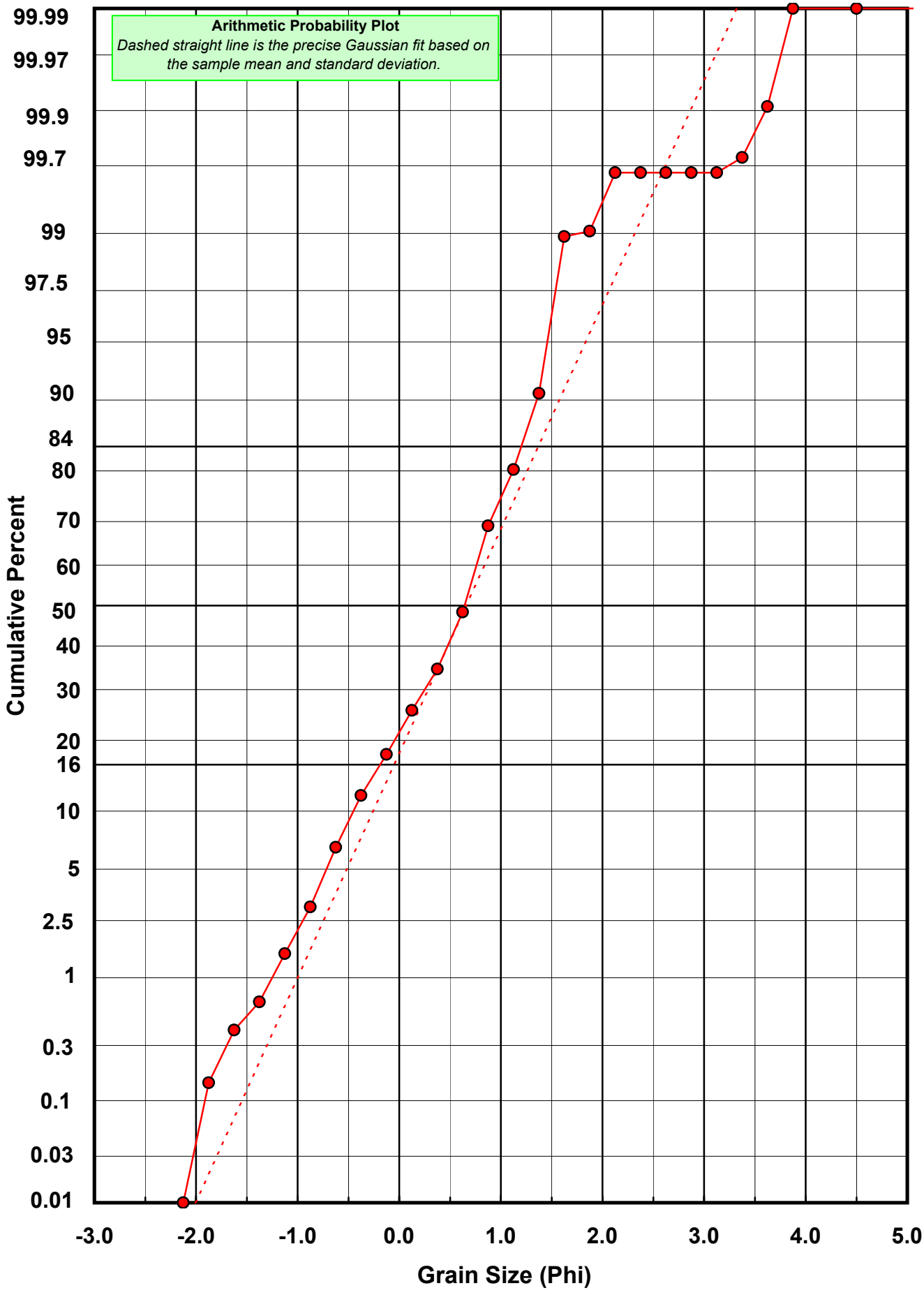
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
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60
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40
30
20
16
10
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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-07-BB

Total Digested Mass: 67.396 grams

% Silica: 75.8 %

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	0.003	0.004	0.004
-0.75	-0.875	0.030	0.045	0.049
-0.50	-0.625	0.027	0.040	0.089
-0.25	-0.375	0.026	0.039	0.128
0.00	-0.125	0.065	0.096	0.224
0.25	0.125	0.200	0.297	0.521
0.50	0.375	0.594	0.881	1.402
0.75	0.625	1.567	2.325	3.727
1.00	0.875	5.380	7.983	11.710
1.25	1.125	8.939	13.263	24.973
1.50	1.375	11.625	17.249	42.222
1.75	1.625	10.803	16.029	58.251
2.00	1.875	10.300	15.283	73.534
2.25	2.125	7.487	11.109	84.643
2.50	2.375	5.536	8.214	92.857
2.75	2.625	3.450	5.119	97.976
3.00	2.875	1.046	1.552	99.528
3.25	3.125	0.229	0.340	99.868
3.50	3.375	0.062	0.092	99.960
3.75	3.625	0.020	0.030	99.990
4.00	3.875	0.007	0.010	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6459	phi	(0.3196 mm)
Standard Dev:	0.5636	phi-units	(0.6766 mm)
Skewness:	0.0491	dimensionless	
Kurtosis:	2.9558	dimensionless	
5th Moment:	-0.8987	dimensionless	
6th Moment:	17.9977	dimensionless	
RARD *	0.3424	dimensionless	
Median	1.4963	phi	(0.3545 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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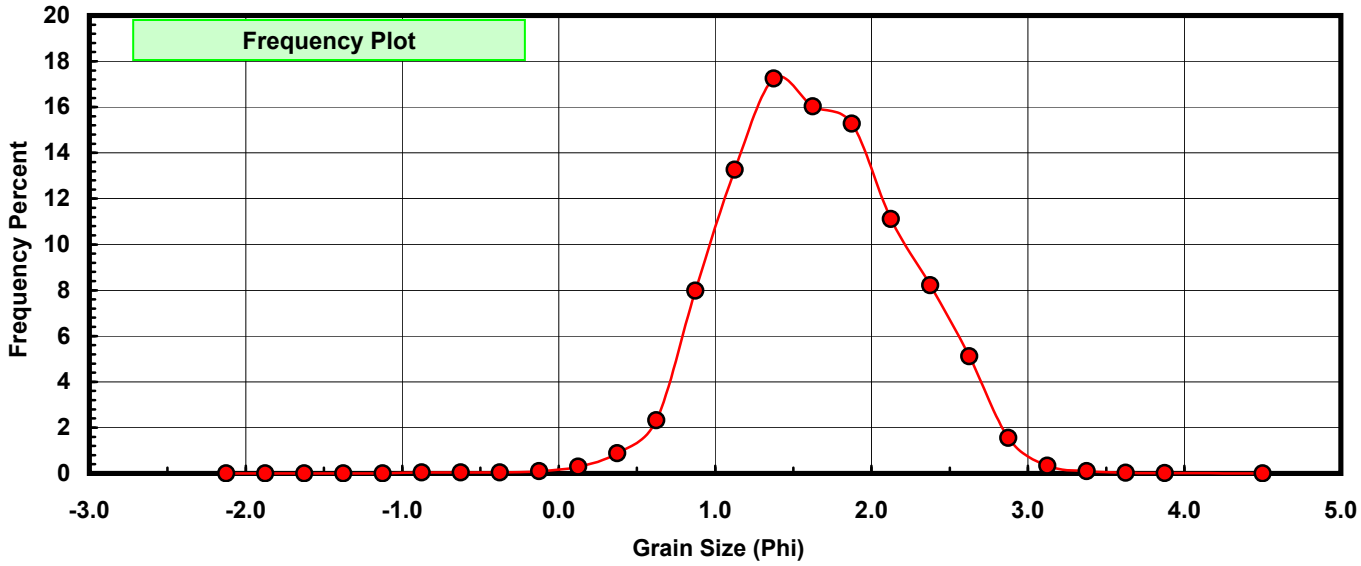

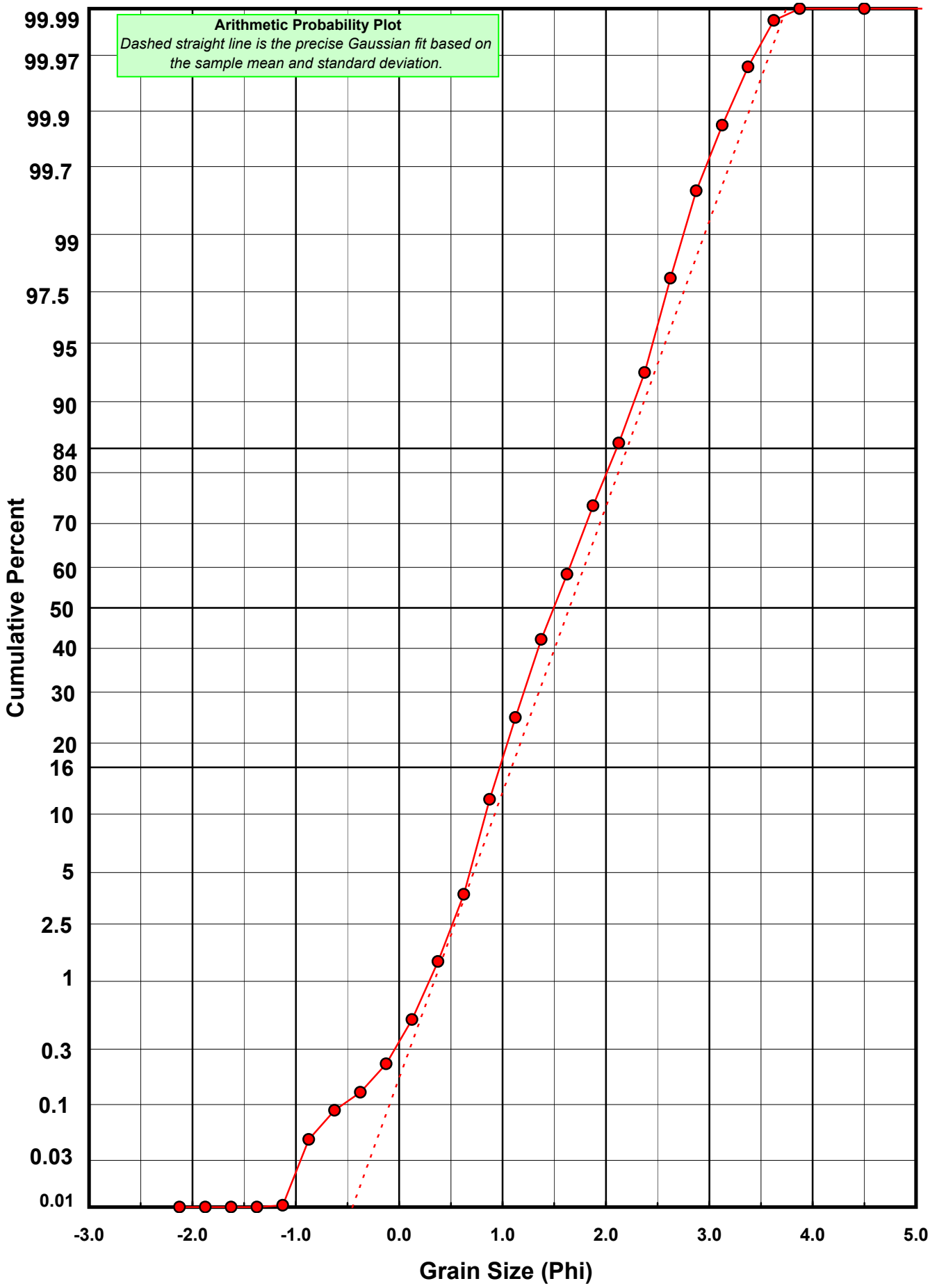
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Grain Size (Phi)