Onshore Grab Sample

Sample: FG-11-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 32' 13.5"
Longitude: 81° 09' 18.2"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	89.69	grams
Total Fines in Sample	0.102	grams
Total Percent Fines	0.11	%

Dry Sieving Summary

Total Sample Weight	89.369	grams
Total Digested Weight	42.320	grams
Total Carbonate Weight	47.049	grams
Total Silica %	47.35	%
Total Carbonate %	52.65	%
Carbonate/Silica Ratio	1.112	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-11-BB

Total Sample Mass: 89.369 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.364	0.407	0.407
-1.75	-1.875	0.000	0.000	0.407
-1.50	-1.625	0.081	0.091	0.498
-1.25	-1.375	0.092	0.103	0.601
-1.00	-1.125	0.295	0.330	0.931
-0.75	-0.875	0.954	1.067	1.998
-0.50	-0.625	3.071	3.436	5.435
-0.25	-0.375	5.097	5.703	11.138
0.00	-0.125	6.378	7.137	18.275
0.25	0.125	7.521	8.416	26.690
0.50	0.375	8.128	9.095	35.785
0.75	0.625	7.267	8.131	43.917
1.00	0.875	13.974	15.636	59.553
1.25	1.125	8.897	9.955	69.508
1.50	1.375	8.180	9.153	78.662
1.75	1.625	6.407	7.169	85.831
2.00	1.875	5.253	5.878	91.709
2.25	2.125	3.378	3.780	95.488
2.50	2.375	2.238	2.504	97.993
2.75	2.625	1.268	1.419	99.411
3.00	2.875	0.400	0.448	99.859
3.25	3.125	0.092	0.103	99.962
3.50	3.375	0.024	0.027	99.989
3.75	3.625	0.010	0.011	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:	0.8149	phi	(0.5685 mm)
Standard Dev:	0.8506	phi-units	(0.5545 mm)
Skewness:	-0.0766	dimensionless	
Kurtosis:	2.8775	dimensionless	
5th Moment:	-1.4377	dimensionless	
6th Moment:	15.1448	dimensionless	
RARD *	1.0439	dimensionless	
Median	0.7223	phi	(0.6061 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

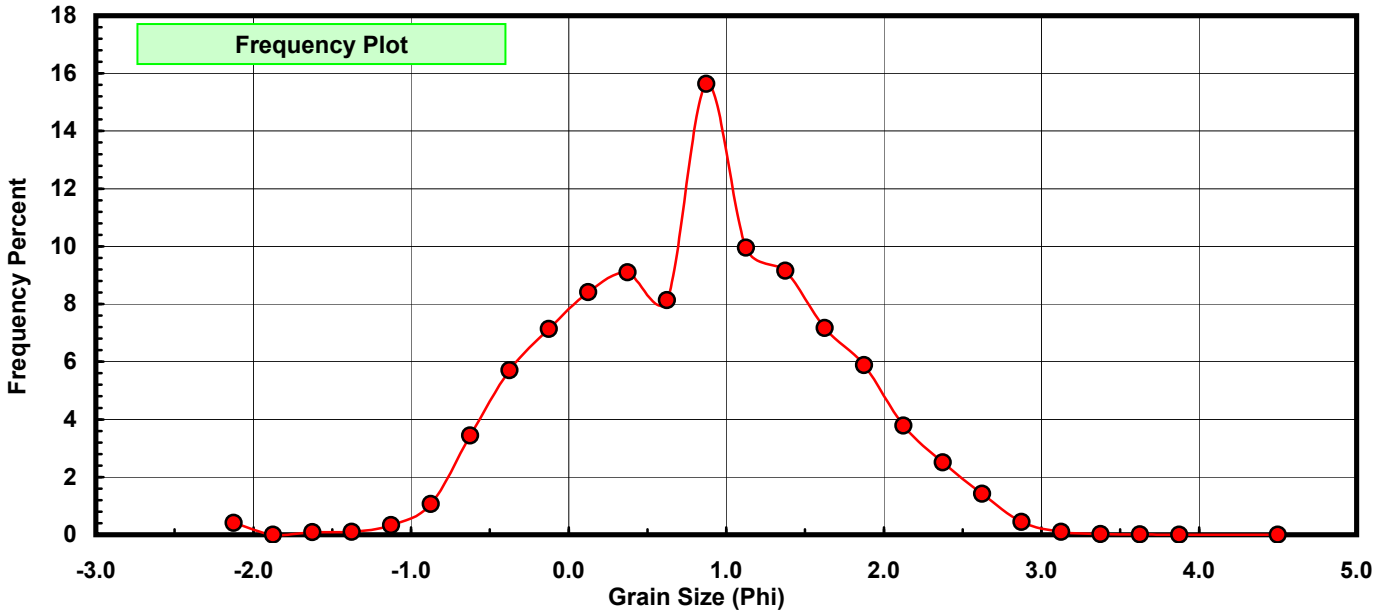
Statistical Explanation

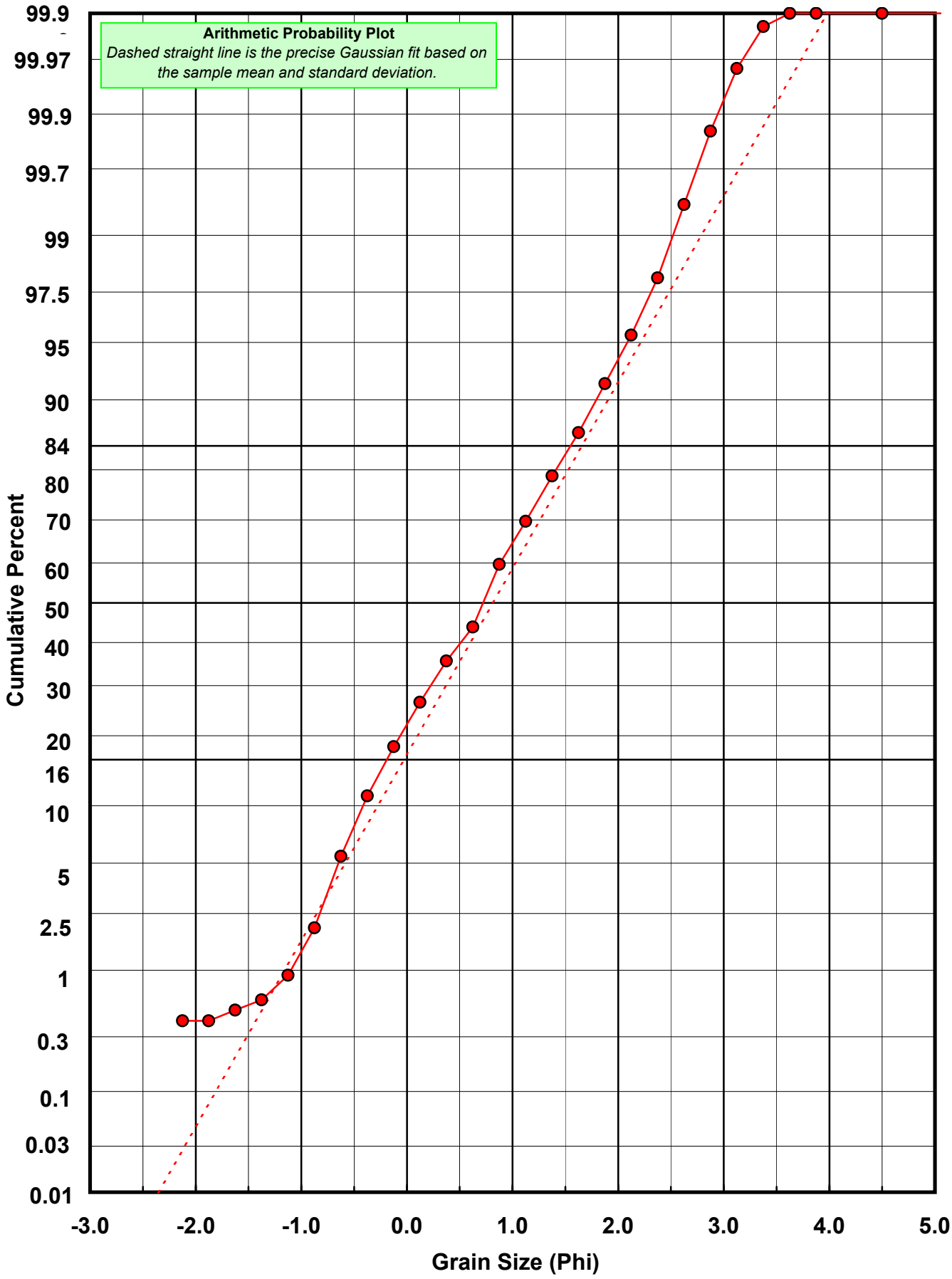
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-11-BB

Total Carbonate Mass: 47.302 grams

% Carbonate: 52.6 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.364	0.770	0.770
-1.75	-1.875	0.000	0.000	0.770
-1.50	-1.625	0.081	0.171	0.941
-1.25	-1.375	0.092	0.194	1.135
-1.00	-1.125	0.295	0.624	1.759
-0.75	-0.875	0.954	2.017	3.776
-0.50	-0.625	3.061	6.471	10.247
-0.25	-0.375	5.036	10.646	20.893
0.00	-0.125	6.083	12.860	33.753
0.25	0.125	6.708	14.181	47.935
0.50	0.375	6.557	13.862	61.797
0.75	0.625	4.588	9.699	71.496
1.00	0.875	6.782	14.338	85.834
1.25	1.125	2.661	5.626	91.459
1.50	1.375	2.055	4.344	95.804
1.75	1.625	1.092	2.309	98.112
2.00	1.875	0.633	1.338	99.450
2.25	2.125	0.253	0.535	99.985
2.50	2.375	0.004	0.008	99.994
2.75	2.625	0.000	0.000	99.994
3.00	2.875	0.000	0.000	99.994
3.25	3.125	0.000	0.000	99.994
3.50	3.375	0.000	0.000	99.994
3.75	3.625	0.003	0.006	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:	0.3103	phi	(0.8065 mm)
Standard Dev:	0.6918	phi-units	(0.6191 mm)
Skewness:	-0.1022	dimensionless	
Kurtosis:	3.4213	dimensionless	
5th Moment:	-2.8601	dimensionless	
6th Moment:	24.1169	dimensionless	
RARD *	2.2294	dimensionless	
Median	0.1623	phi	(0.8936 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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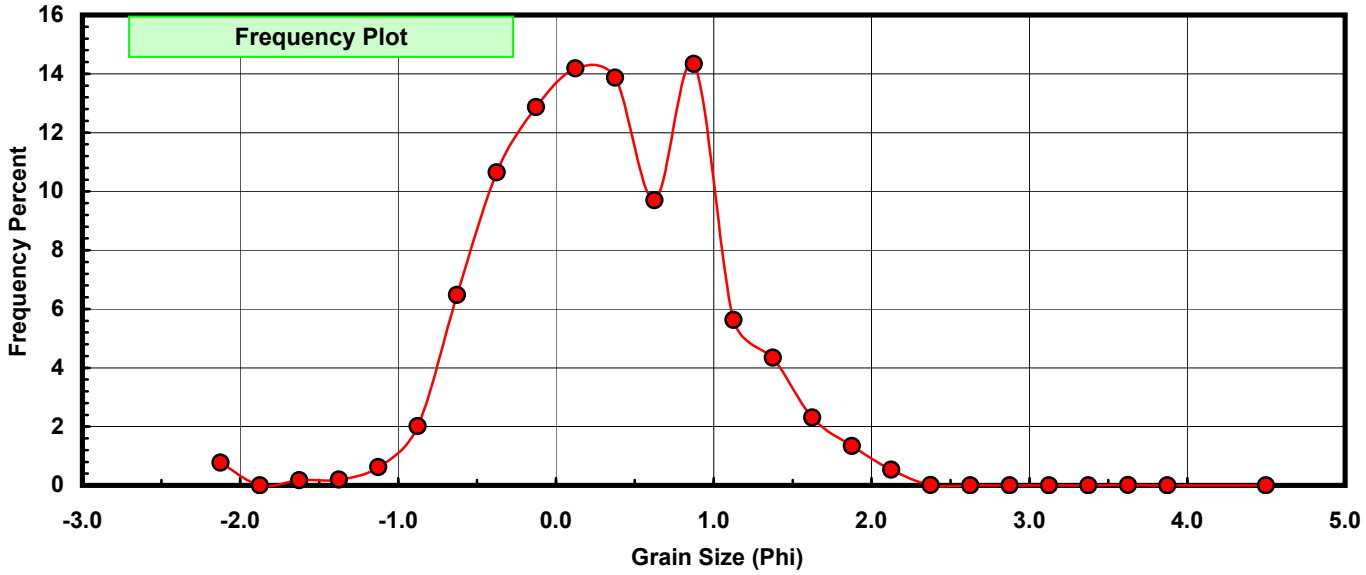

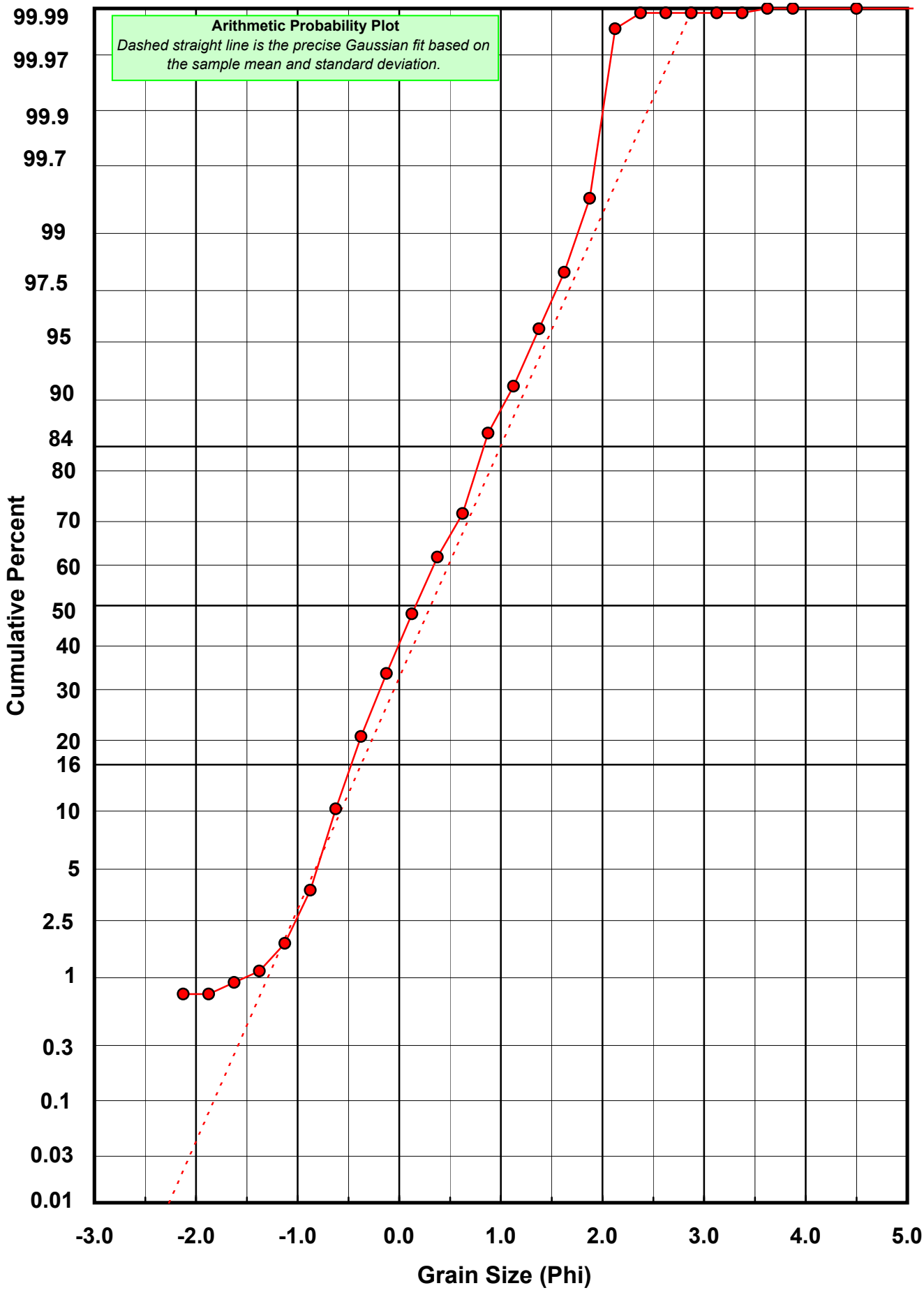
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
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95
90
84
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40
30
20
16
10
5
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-11-BB

Total Digested Mass: 42.320 grams

% Silica: 47.4 %

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	0.010	0.024	0.024
-0.25	-0.375	0.061	0.144	0.168
0.00	-0.125	0.295	0.697	0.865
0.25	0.125	0.813	1.921	2.786
0.50	0.375	1.571	3.712	6.498
0.75	0.625	2.679	6.330	12.828
1.00	0.875	7.192	16.994	29.823
1.25	1.125	6.236	14.735	44.558
1.50	1.375	6.125	14.473	59.031
1.75	1.625	5.315	12.559	71.590
2.00	1.875	4.620	10.917	82.507
2.25	2.125	3.125	7.384	89.891
2.50	2.375	2.234	5.279	95.170
2.75	2.625	1.419	3.353	98.523
3.00	2.875	0.484	1.144	99.667
3.25	3.125	0.109	0.258	99.924
3.50	3.375	0.025	0.059	99.983
3.75	3.625	0.007	0.017	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:	1.3904	phi	(0.3815 mm)
Standard Dev:	0.6352	phi-units	(0.6439 mm)
Skewness:	0.1910	dimensionless	
Kurtosis:	2.6766	dimensionless	
5th Moment:	0.9951	dimensionless	
6th Moment:	11.0502	dimensionless	
RARD *	0.4568	dimensionless	
Median	1.2190	phi	(0.4296 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)

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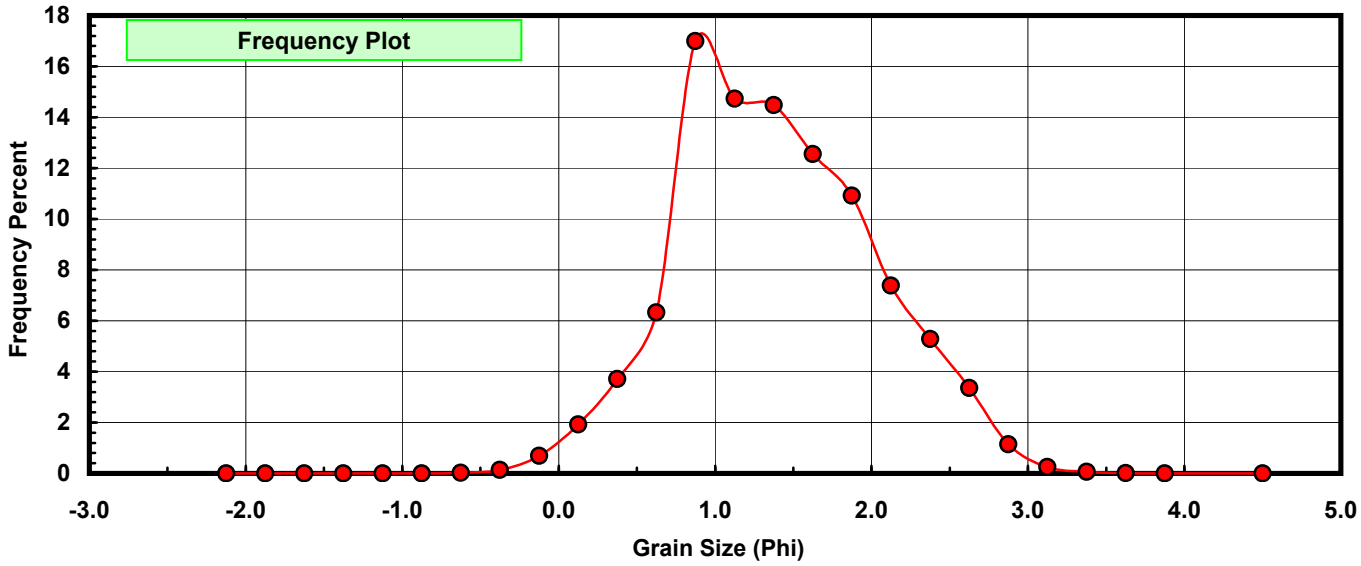

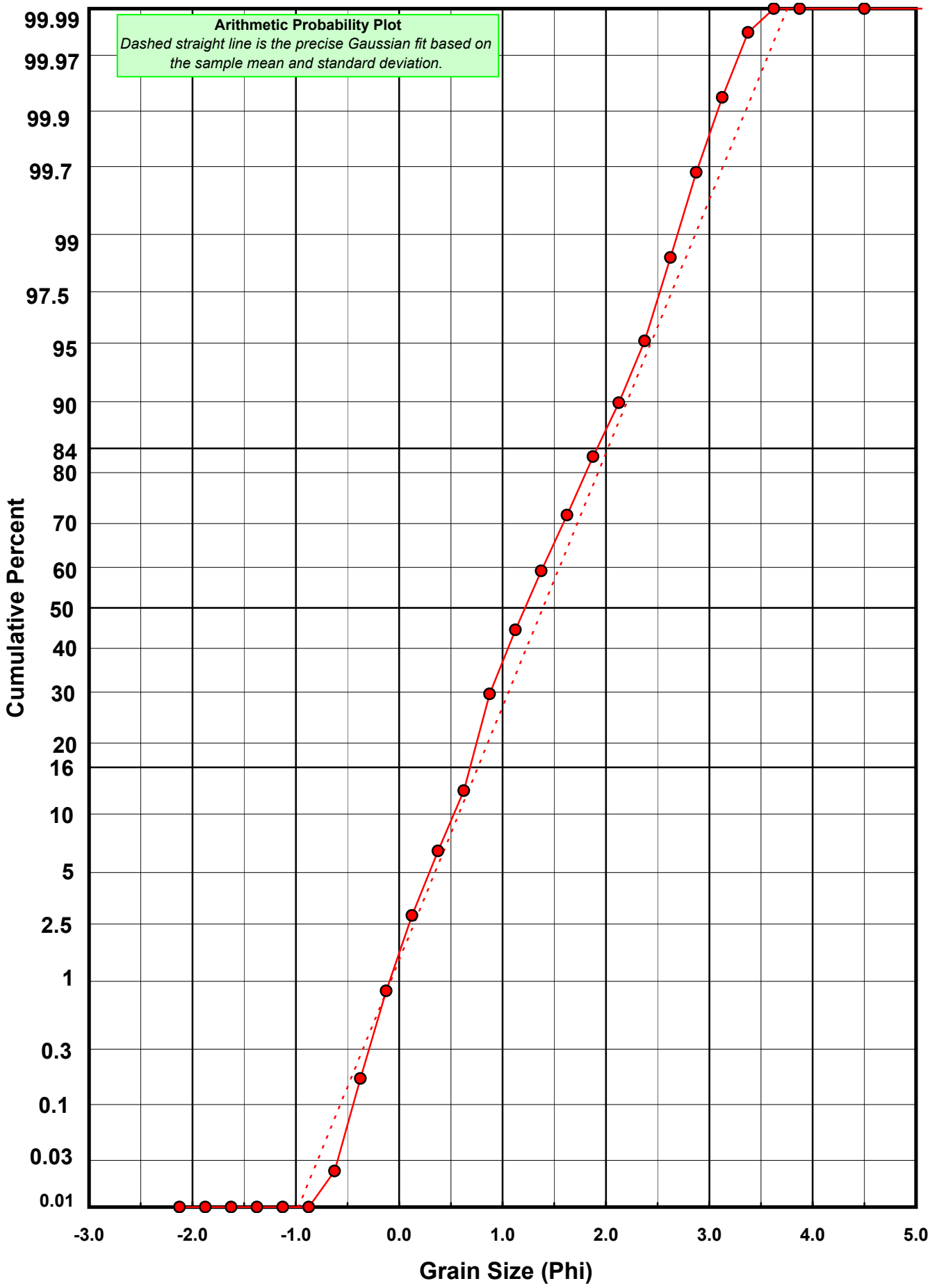
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0.1
0.03
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-2.0
-1.0
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Grain Size (Phi)