Onshore Grab Sample

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

County: Flagler
Latitude: 29° 31' 32.2"
Longitude: 29° 08' 56.9"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	84.171	grams
Total Fines in Sample	0.092	grams
Total Percent Fines	0.11	%

Dry Sieving Summary

Total Sample Weight	84.022	grams
Total Digested Weight	43.089	grams
Total Carbonate Weight	40.933	grams
Total Silica %	51.28	%
Total Carbonate %	48.72	%
Carbonate/Silica Ratio	0.950	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-12-BB

Total Sample Mass: 84.022 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	0.038	0.045	0.045
-1.50	-1.625	0.106	0.126	0.171
-1.25	-1.375	0.125	0.149	0.320
-1.00	-1.125	0.238	0.283	0.603
-0.75	-0.875	0.958	1.140	1.744
-0.50	-0.625	2.856	3.399	5.143
-0.25	-0.375	5.183	6.169	11.311
0.00	-0.125	6.098	7.258	18.569
0.25	0.125	6.575	7.825	26.394
0.50	0.375	5.720	6.808	33.202
0.75	0.625	6.539	7.782	40.985
1.00	0.875	9.612	11.440	52.424
1.25	1.125	7.438	8.852	61.277
1.50	1.375	8.101	9.642	70.918
1.75	1.625	7.030	8.367	79.285
2.00	1.875	6.241	7.428	86.713
2.25	2.125	4.689	5.581	92.294
2.50	2.375	3.534	4.206	96.500
2.75	2.625	2.084	2.480	98.980
3.00	2.875	0.635	0.756	99.736
3.25	3.125	0.145	0.173	99.908
3.50	3.375	0.050	0.060	99.968
3.75	3.625	0.021	0.025	99.993
4.00	3.875	0.003	0.004	99.996
5.00	4.500	0.003	0.004	100.000

Statistical Results			
Mean:	0.9338	phi	(0.5235 mm)
Standard Dev:	0.9149	phi-units	(0.5304 mm)
Skewness:	-0.0295	dimensionless	
Kurtosis:	2.2804	dimensionless	
5th Moment:	-0.1563	dimensionless	
6th Moment:	7.6467	dimensionless	
RARD *	0.9798	dimensionless	
Median	0.8220	phi	(0.5656 mm)

* RARD = reciprocal absolute relative dispersion (see below)

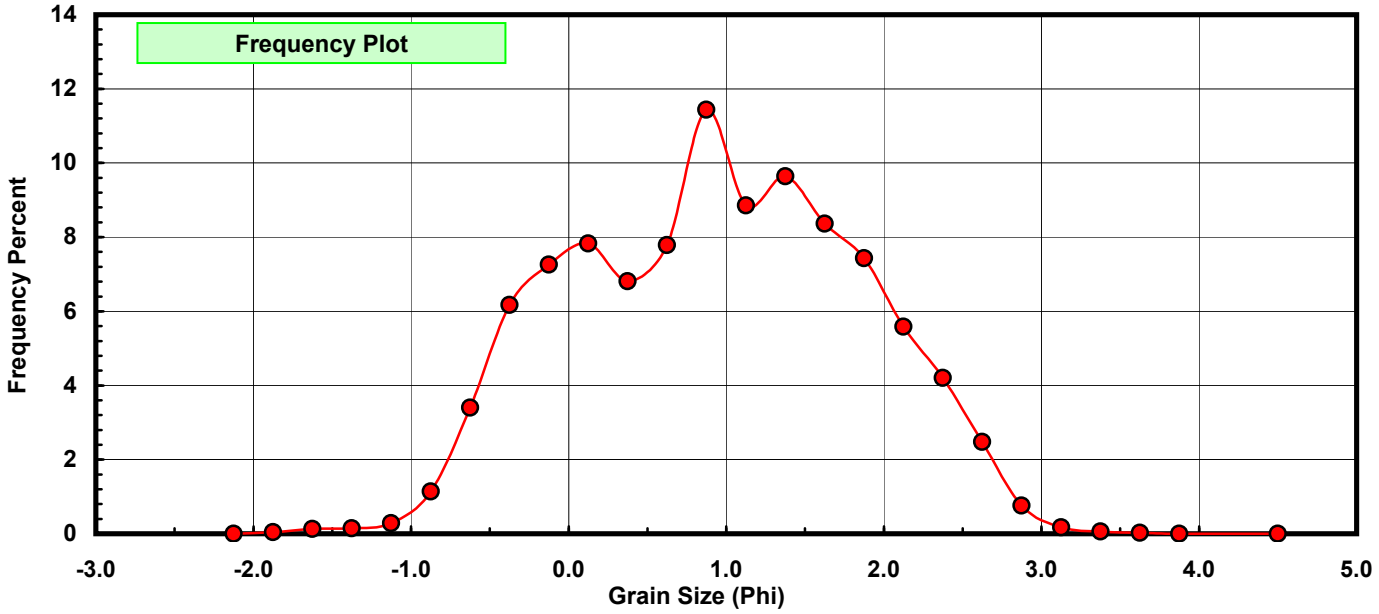
Statistical Explanation

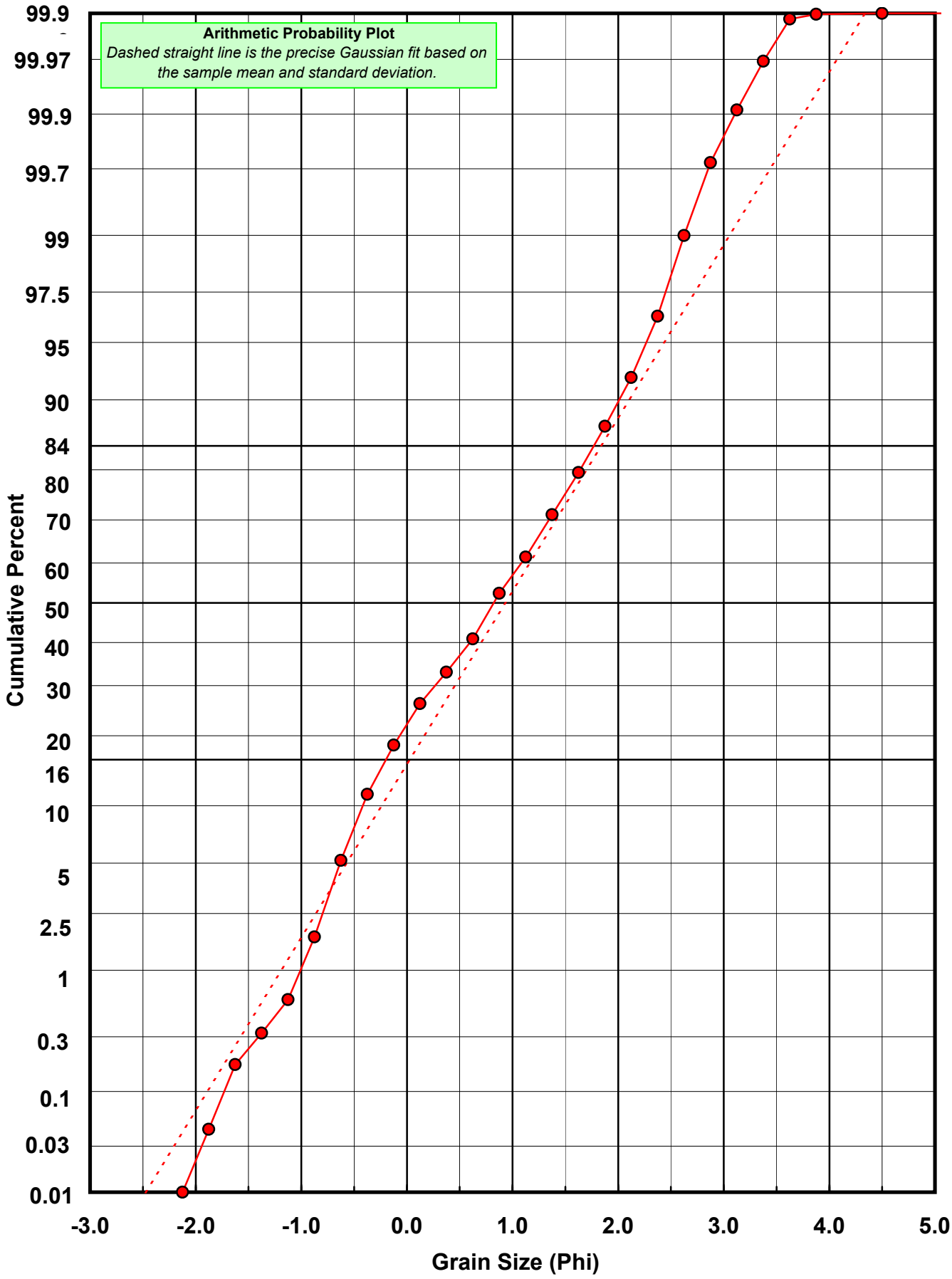
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-BB

Total Carbonate Mass: 41.080 grams

% Carbonate: 48.7 %

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	0.038	0.093	0.093
-1.50	-1.625	0.106	0.258	0.351
-1.25	-1.375	0.125	0.304	0.655
-1.00	-1.125	0.238	0.579	1.234
-0.75	-0.875	0.958	2.332	3.566
-0.50	-0.625	2.844	6.923	10.489
-0.25	-0.375	5.108	12.434	22.924
0.00	-0.125	5.847	14.233	37.157
0.25	0.125	5.914	14.396	51.553
0.50	0.375	4.660	11.344	62.897
0.75	0.625	4.712	11.470	74.367
1.00	0.875	4.291	10.445	84.813
1.25	1.125	2.256	5.492	90.304
1.50	1.375	2.048	4.985	95.290
1.75	1.625	1.241	3.021	98.311
2.00	1.875	0.530	1.290	99.601
2.25	2.125	0.159	0.387	99.988
2.50	2.375	0.000	0.000	99.988
2.75	2.625	0.000	0.000	99.988
3.00	2.875	0.000	0.000	99.988
3.25	3.125	0.000	0.000	99.988
3.50	3.375	0.000	0.000	99.988
3.75	3.625	0.005	0.012	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:	0.2912	phi	(0.8172 mm)
Standard Dev:	0.6821	phi-units	(0.6233 mm)
Skewness:	0.2447	dimensionless	
Kurtosis:	2.6858	dimensionless	
5th Moment:	1.3525	dimensionless	
6th Moment:	12.5998	dimensionless	
RARD *	2.3425	dimensionless	
Median	0.0980	phi	(0.9343 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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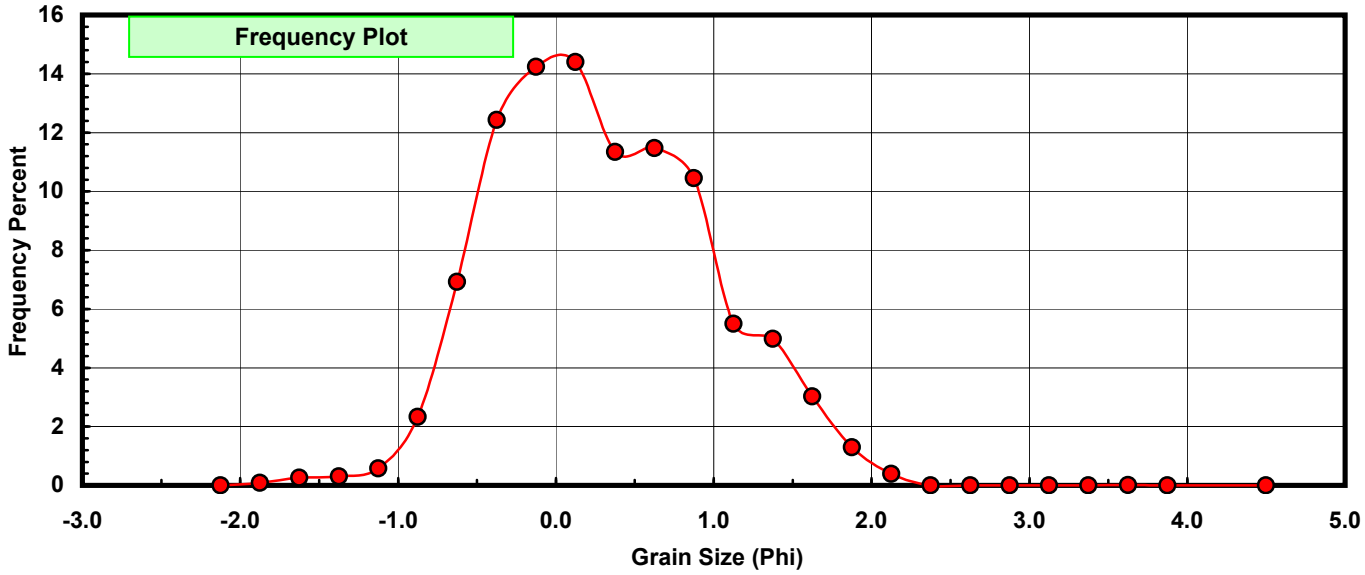

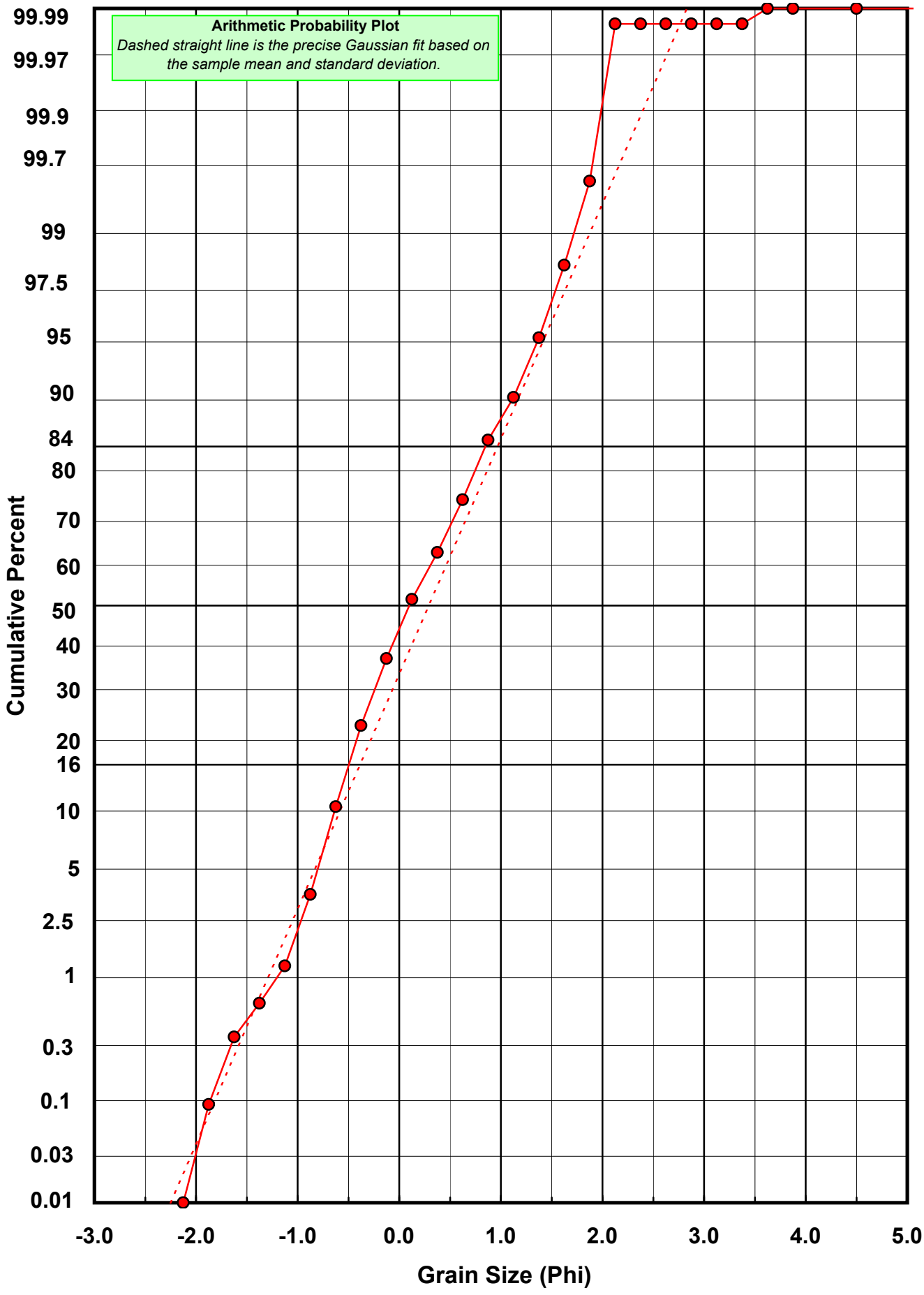
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-12-BB

Total Digested Mass: 43.087 grams

% Silica: 51.3 %

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	0.012	0.028	0.028
-0.25	-0.375	0.075	0.174	0.202
0.00	-0.125	0.251	0.583	0.784
0.25	0.125	0.661	1.534	2.319
0.50	0.375	1.060	2.460	4.779
0.75	0.625	1.827	4.240	9.019
1.00	0.875	5.321	12.349	21.368
1.25	1.125	5.182	12.027	33.395
1.50	1.375	6.053	14.048	47.444
1.75	1.625	5.789	13.436	60.879
2.00	1.875	5.711	13.255	74.134
2.25	2.125	4.530	10.514	84.647
2.50	2.375	3.582	8.313	92.961
2.75	2.625	2.092	4.855	97.816
3.00	2.875	0.699	1.622	99.438
3.25	3.125	0.171	0.397	99.835
3.50	3.375	0.052	0.121	99.956
3.75	3.625	0.016	0.037	99.993
4.00	3.875	0.003	0.007	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5525	phi	(0.3409 mm)
Standard Dev:	0.6513	phi-units	(0.6367 mm)
Skewness:	-0.0565	dimensionless	
Kurtosis:	2.6178	dimensionless	
5th Moment:	-0.6846	dimensionless	
6th Moment:	10.9823	dimensionless	
RARD *	0.4195	dimensionless	
Median	1.4226	phi	(0.373 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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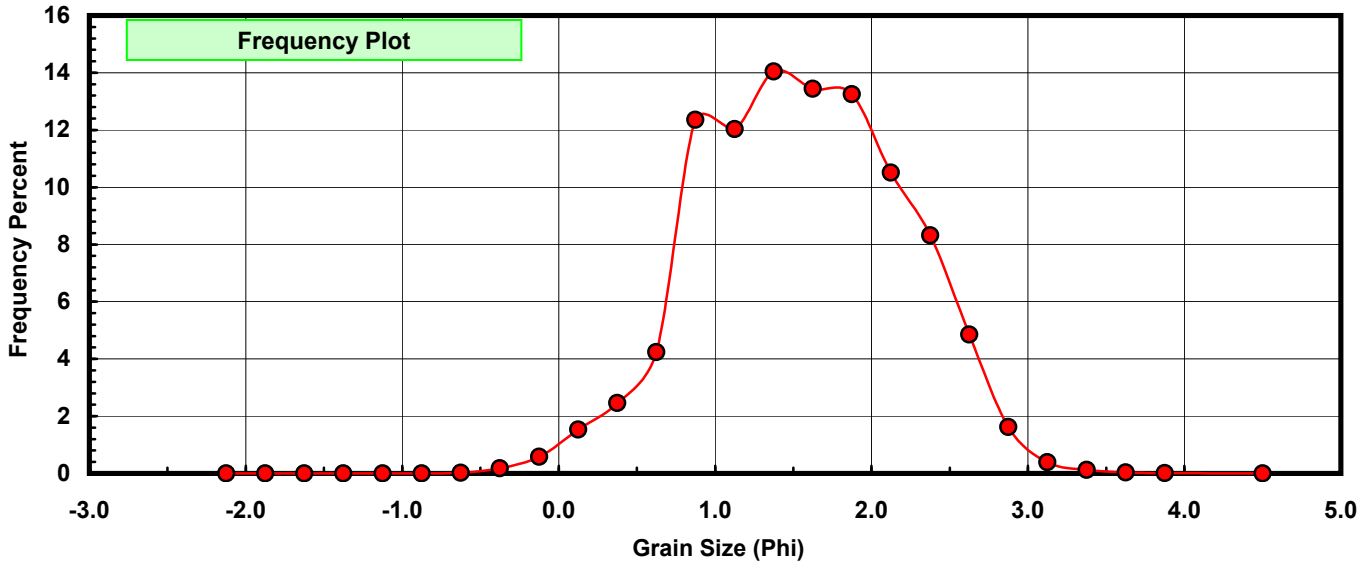

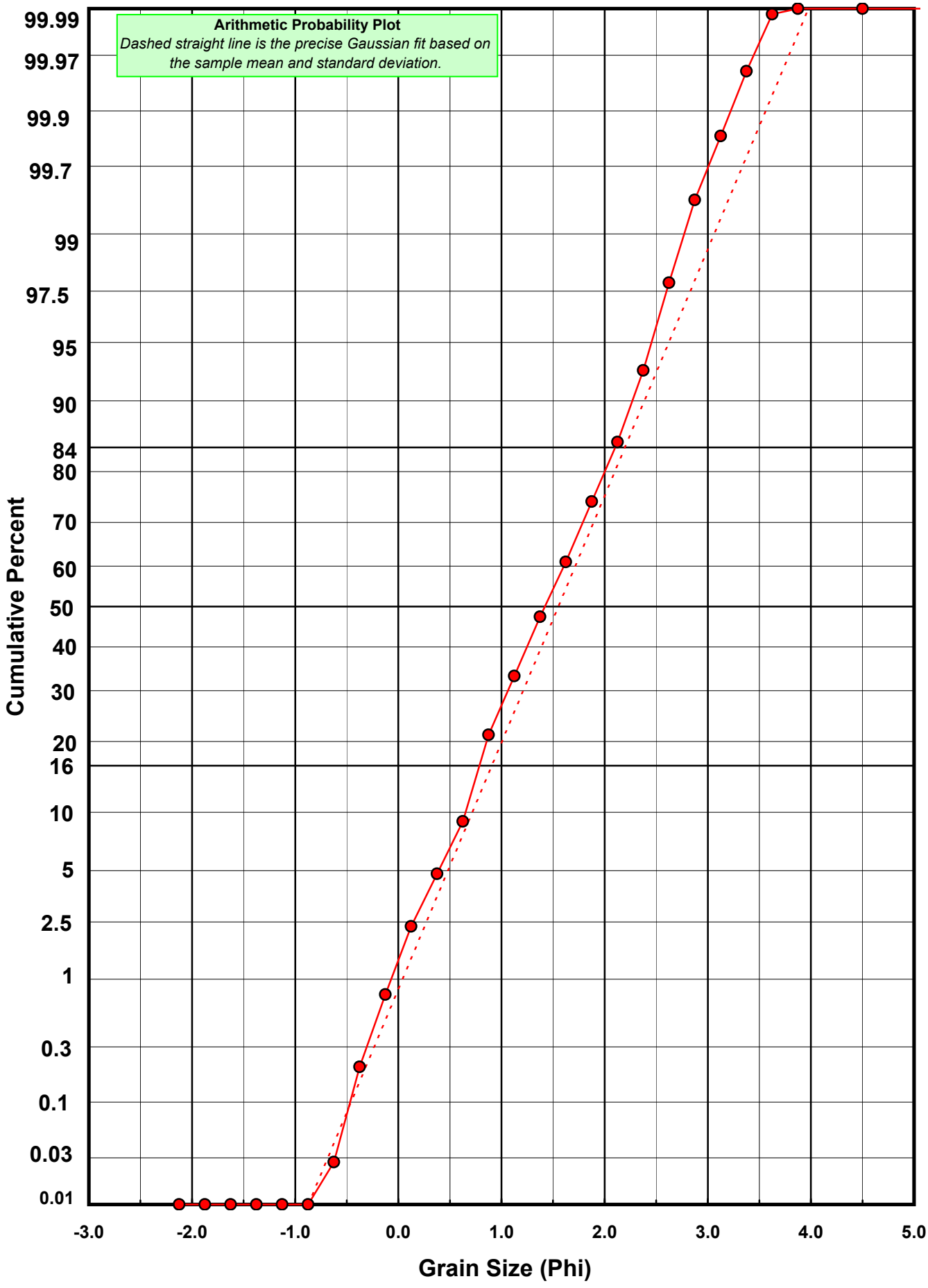
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Grain Size (Phi)