Onshore Grab Sample

Sample: FG-04-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 37' 23.1"
Longitude: 81° 11' 34.8"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	76.736	grams
Total Fines in Sample	0.327	grams
Total Percent Fines	0.42	%

Dry Sieving Summary

Total Sample Weight	76.555	grams
Total Digested Weight	3.315	grams
Total Carbonate Weight	73.240	grams
Total Silica %	4.33	%
Total Carbonate %	95.67	%
Carbonate/Silica Ratio	22.094	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-04-SS

Total Sample Mass: 76.555 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	0.095	0.124	0.124
-1.50	-1.625	0.261	0.341	0.465
-1.25	-1.375	1.253	1.637	2.102
-1.00	-1.125	4.299	5.616	7.717
-0.75	-0.875	11.232	14.672	22.389
-0.50	-0.625	21.511	28.099	50.488
-0.25	-0.375	19.207	25.089	75.577
0.00	-0.125	10.153	13.262	88.839
0.25	0.125	4.545	5.937	94.776
0.50	0.375	1.570	2.051	96.827
0.75	0.625	0.623	0.814	97.641
1.00	0.875	0.221	0.289	97.930
1.25	1.125	0.070	0.091	98.021
1.50	1.375	0.043	0.056	98.077
1.75	1.625	0.041	0.054	98.131
2.00	1.875	0.087	0.114	98.244
2.25	2.125	0.160	0.209	98.453
2.50	2.375	0.320	0.418	98.871
2.75	2.625	0.450	0.588	99.459
3.00	2.875	0.279	0.364	99.824
3.25	3.125	0.107	0.140	99.963
3.50	3.375	0.028	0.037	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:	-0.4348	phi	(1.3517 mm)
Standard Dev:	0.5730	phi-units	(0.6722 mm)
Skewness:	2.8142	dimensionless	
Kurtosis:	16.3150	dimensionless	
5th Moment:	85.0529	dimensionless	
6th Moment:	473.4532	dimensionless	
RARD *	1.3179	dimensionless	
Median	-0.6293	phi	(1.5469 mm)

* RARD = reciprocal absolute relative dispersion (see below)

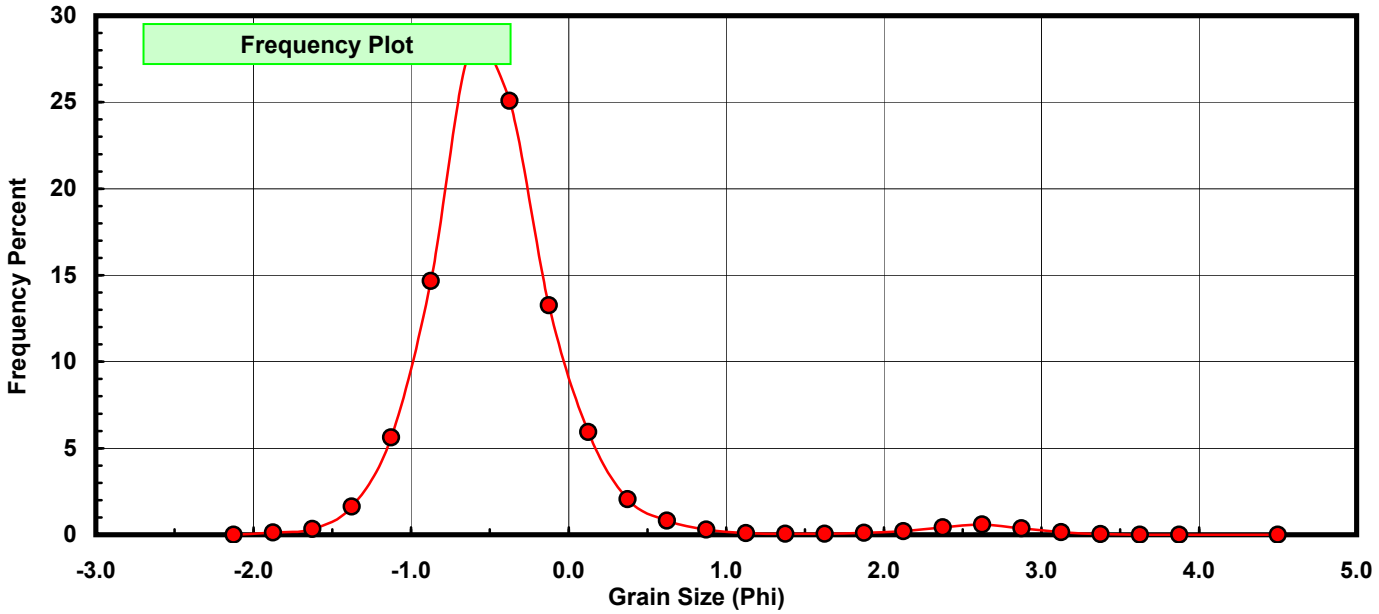
Statistical Explanation

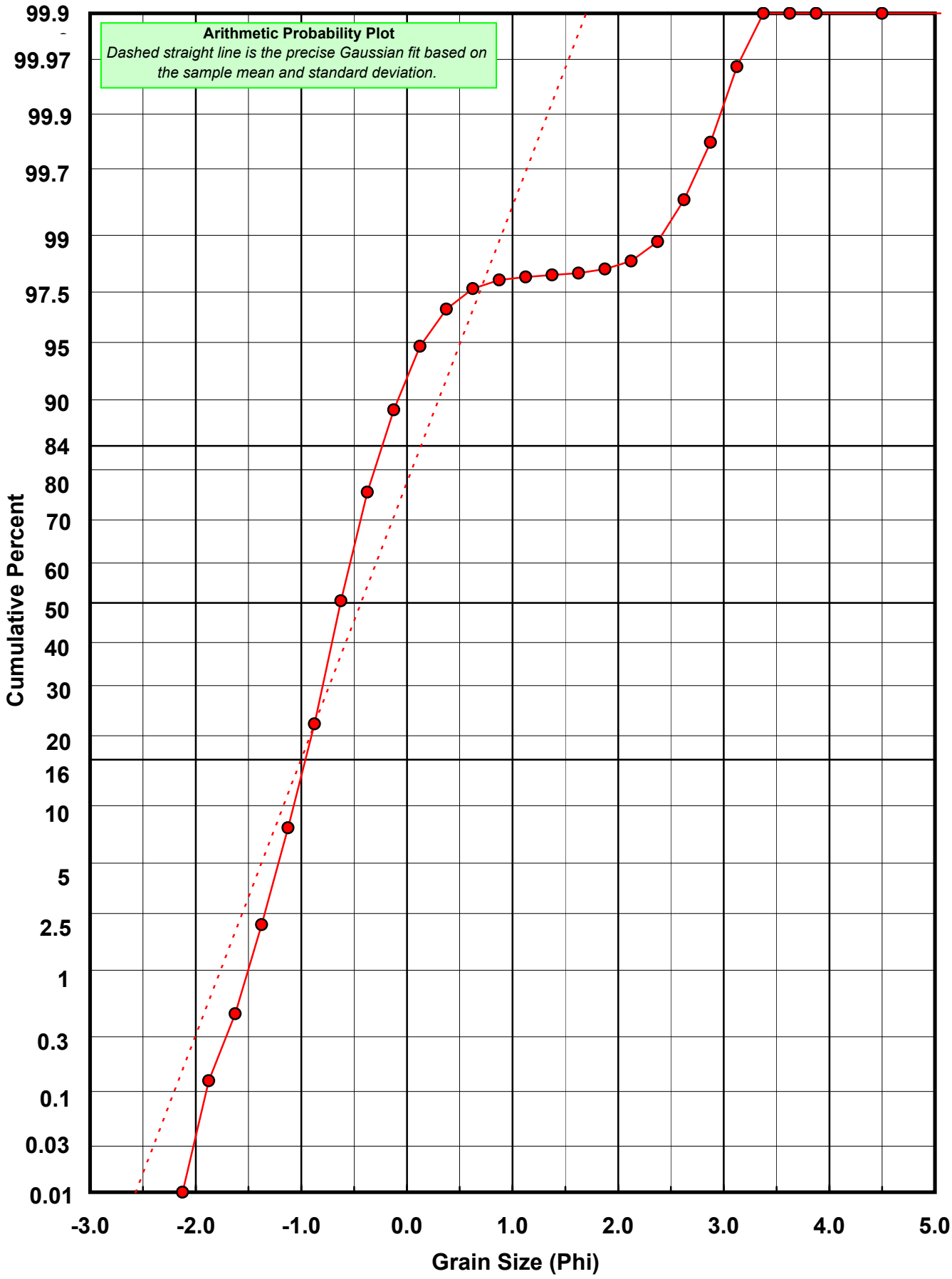
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-04-SS

Total Carbonate Mass: 73.329 grams

% Carbonate: 95.7 %

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	0.095	0.130	0.130
-1.50	-1.625	0.261	0.356	0.485
-1.25	-1.375	1.253	1.709	2.194
-1.00	-1.125	4.299	5.863	8.057
-0.75	-0.875	11.189	15.259	23.315
-0.50	-0.625	21.282	29.023	52.338
-0.25	-0.375	18.744	25.562	77.900
0.00	-0.125	9.797	13.360	91.260
0.25	0.125	4.286	5.845	97.105
0.50	0.375	1.404	1.915	99.019
0.75	0.625	0.513	0.700	99.719
1.00	0.875	0.148	0.202	99.921
1.25	1.125	0.032	0.044	99.965
1.50	1.375	0.008	0.011	99.975
1.75	1.625	0.000	0.000	99.975
2.00	1.875	0.000	0.000	99.975
2.25	2.125	0.000	0.000	99.975
2.50	2.375	0.000	0.000	99.975
2.75	2.625	0.000	0.000	99.975
3.00	2.875	0.000	0.000	99.975
3.25	3.125	0.010	0.014	99.989
3.50	3.375	0.008	0.011	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:	-0.5031	phi	(1.4172 mm)
Standard Dev:	0.3858	phi-units	(0.7653 mm)
Skewness:	0.4206	dimensionless	
Kurtosis:	5.7863	dimensionless	
5th Moment:	23.8033	dimensionless	
6th Moment:	234.5320	dimensionless	
RARD *	0.7669	dimensionless	
Median	-0.6451	phi	(1.5639 mm)

* RARD = reciprocal absolute relative dispersion (see below)

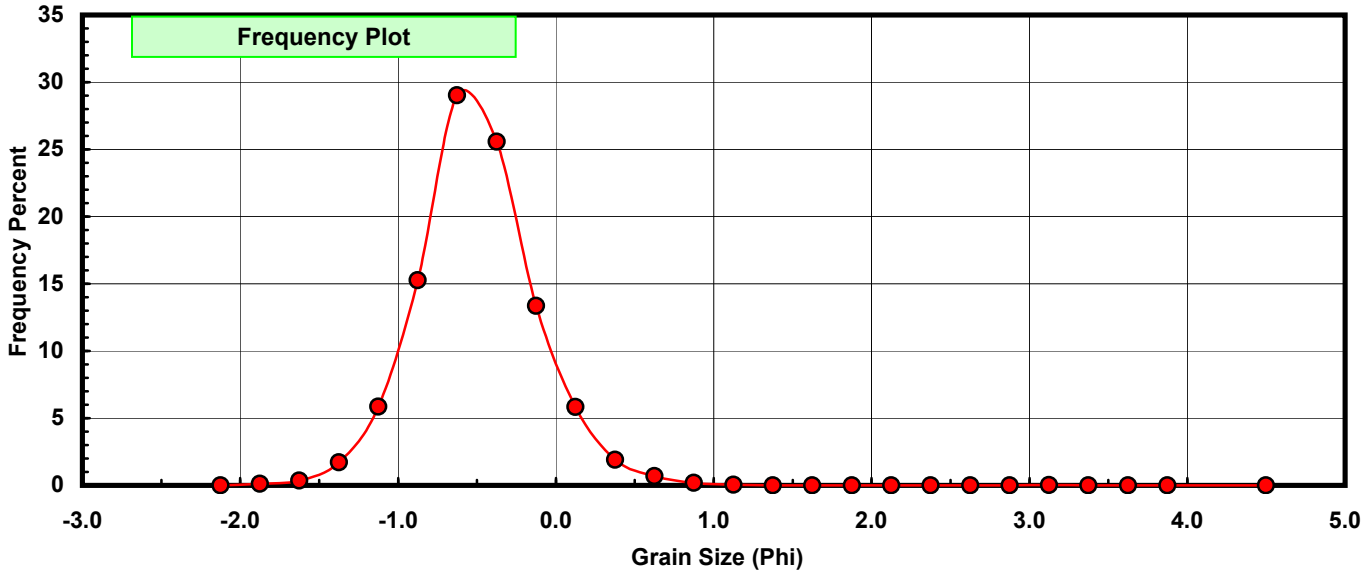
Statistical Explanation

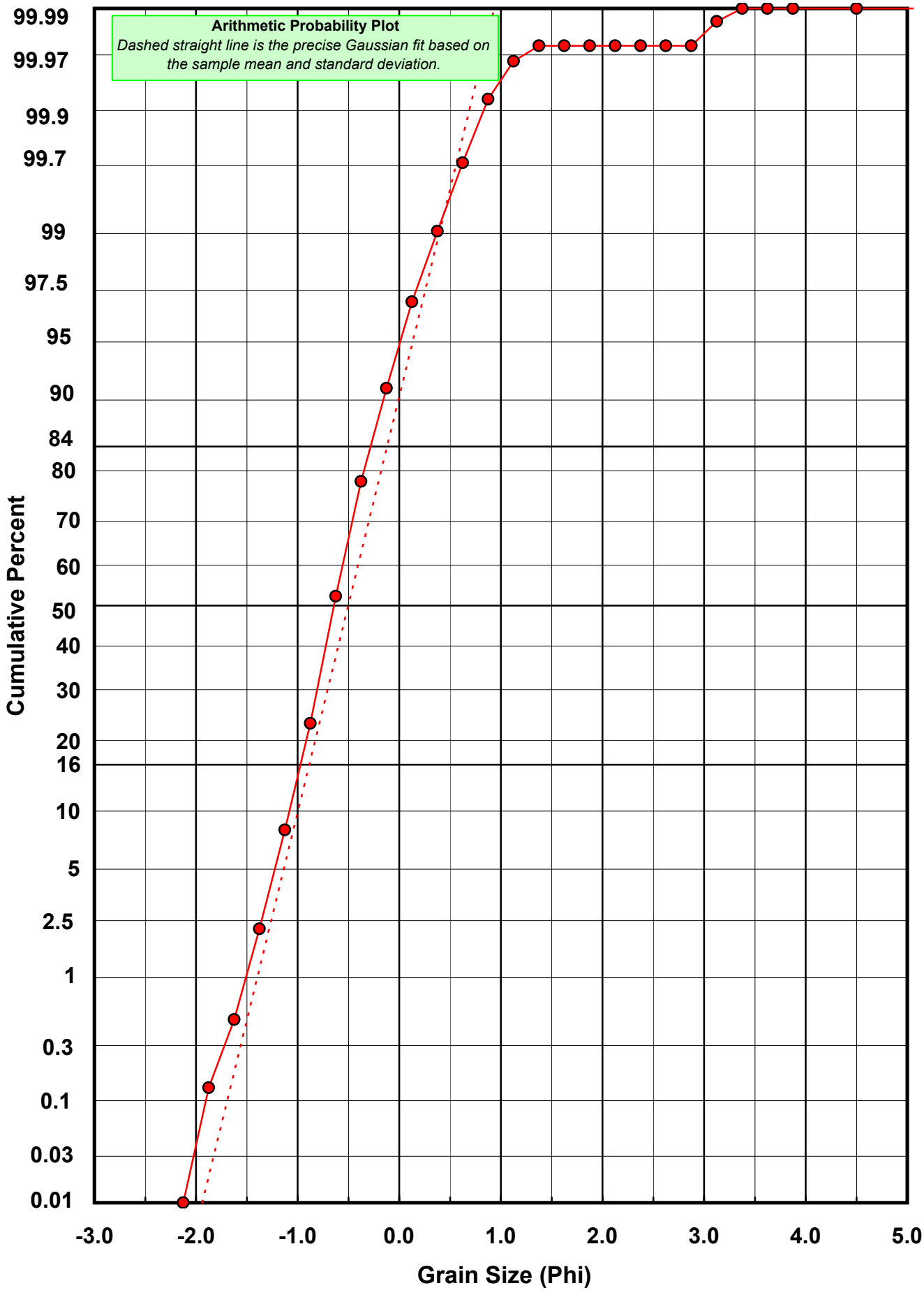
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-04-SS

Total Digested Mass: 3.315 grams

% Silica: 4.3 %

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	0.043	1.297	1.297
-0.50	-0.625	0.229	6.908	8.205
-0.25	-0.375	0.463	13.967	22.172
0.00	-0.125	0.356	10.739	32.911
0.25	0.125	0.259	7.813	40.724
0.50	0.375	0.166	5.008	45.732
0.75	0.625	0.110	3.318	49.050
1.00	0.875	0.073	2.202	51.252
1.25	1.125	0.038	1.146	52.398
1.50	1.375	0.035	1.056	53.454
1.75	1.625	0.049	1.478	54.932
2.00	1.875	0.089	2.685	57.617
2.25	2.125	0.174	5.249	62.866
2.50	2.375	0.337	10.166	73.032
2.75	2.625	0.474	14.299	87.330
3.00	2.875	0.303	9.140	96.471
3.25	3.125	0.097	2.926	99.397
3.50	3.375	0.020	0.603	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:	1.1529	phi	(0.4497 mm)
Standard Dev:	1.3567	phi-units	(0.3905 mm)
Skewness:	0.0507	dimensionless	
Kurtosis:	1.3022	dimensionless	
5th Moment:	0.1293	dimensionless	
6th Moment:	1.9411	dimensionless	
RARD *	1.1768	dimensionless	
Median	0.7329	phi	(0.6017 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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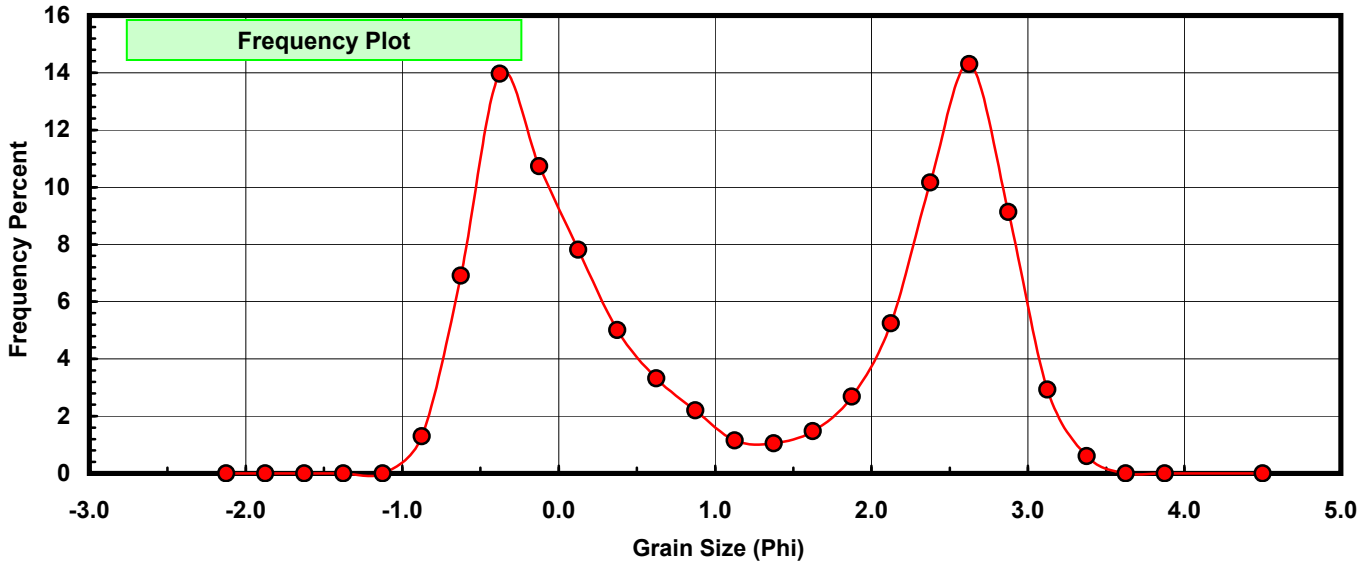

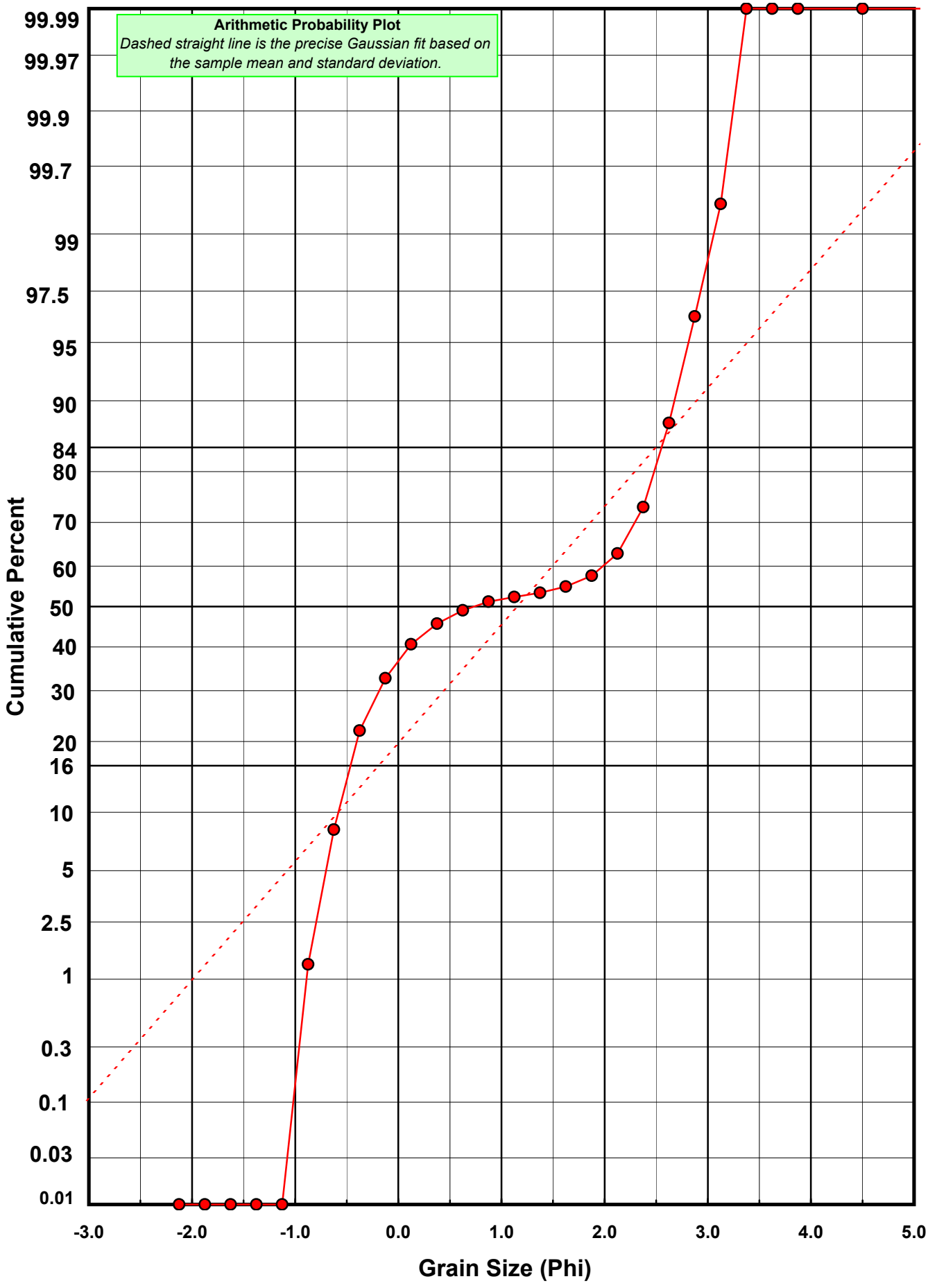
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2.0
3.0
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5.0
Grain Size (Phi)