Onshore Grab Sample

Sample: SJ-35-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 46' 48.6"
Longitude: 81° 15' 18.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.342	grams
Total Fines in Sample	0.291	grams
Total Percent Fines	0.55	%

Dry Sieving Summary

Total Sample Weight	52.019	grams
Total Digested Weight	51.029	grams
Total Carbonate Weight	0.990	grams
Total Silica %	98.10	%
Total Carbonate %	1.90	%
Carbonate/Silica Ratio	0.019	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-35-BB

Total Sample Mass: 52.019 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	0.000	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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.004	0.008	0.008
0.50	0.375	0.004	0.008	0.015
0.75	0.625	0.002	0.004	0.019
1.00	0.875	0.008	0.015	0.035
1.25	1.125	0.005	0.010	0.044
1.50	1.375	0.001	0.002	0.046
1.75	1.625	0.010	0.019	0.065
2.00	1.875	0.155	0.298	0.363
2.25	2.125	1.458	2.803	3.166
2.50	2.375	7.093	13.635	16.802
2.75	2.625	17.452	33.549	50.351
3.00	2.875	16.979	32.640	82.991
3.25	3.125	6.080	11.688	94.679
3.50	3.375	1.470	2.826	97.505
3.75	3.625	0.866	1.665	99.170
4.00	3.875	0.316	0.607	99.777
5.00	4.500	0.116	0.223	100.000

Statistical Results			
Mean:	2.7632	phi	(0.1473 mm)
Standard Dev:	0.3185	phi-units	(0.8019 mm)
Skewness:	0.6394	dimensionless	
Kurtosis:	6.3929	dimensionless	
5th Moment:	8.6937	dimensionless	
6th Moment:	134.9763	dimensionless	
RARD *	0.1153	dimensionless	
Median	2.6224	phi	(0.1624 mm)

* RARD = reciprocal absolute relative dispersion (see below)

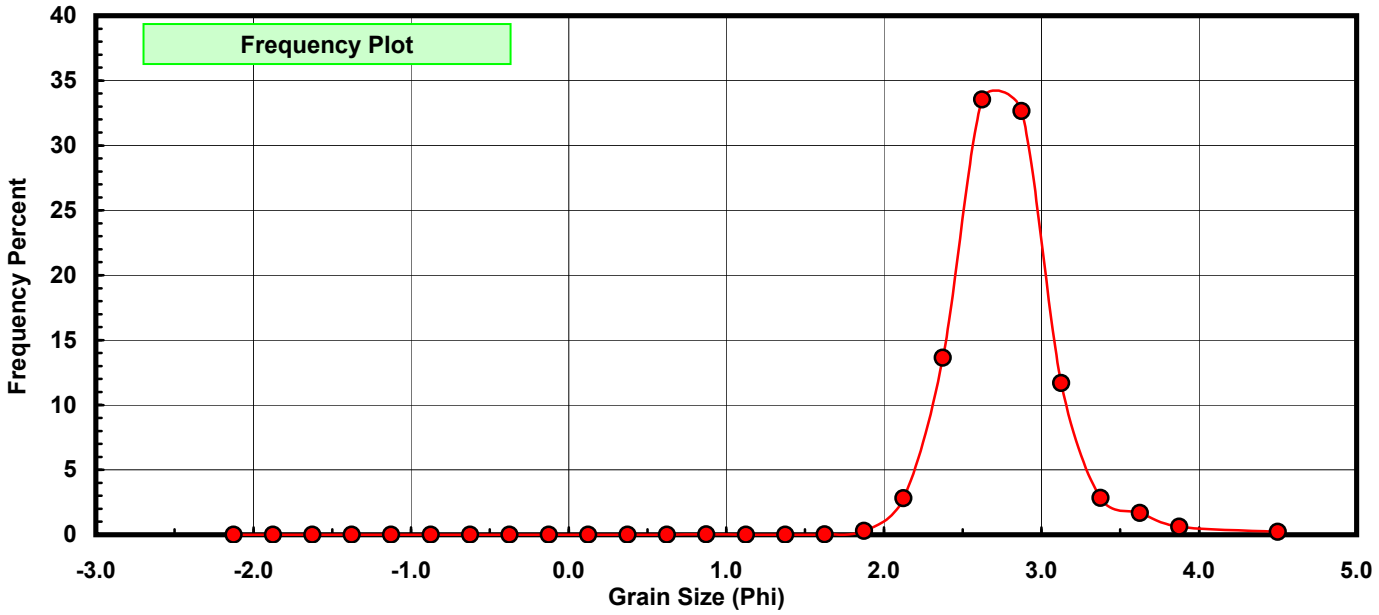
Statistical Explanation

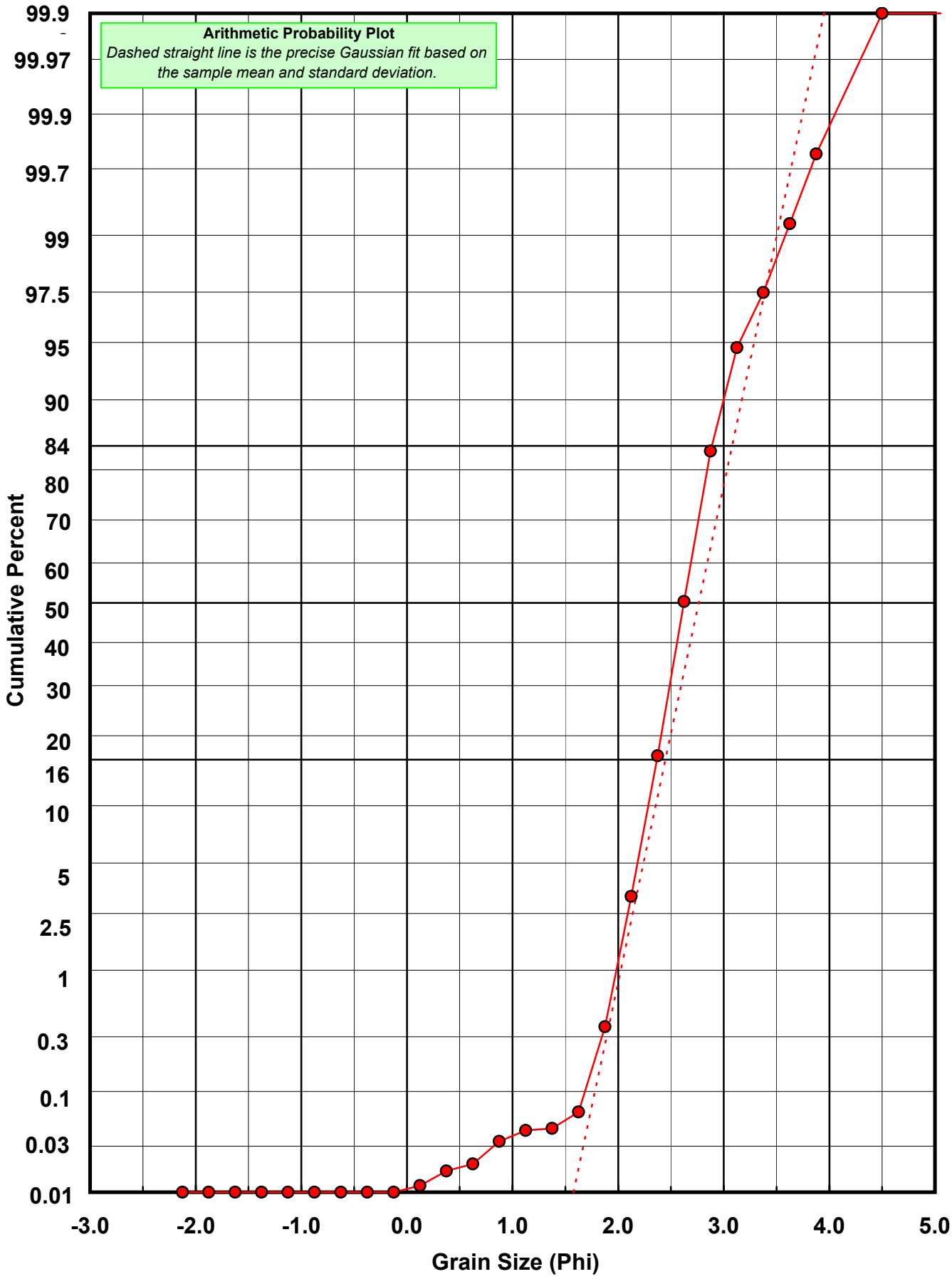
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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: SJ-35-BB

Total Carbonate Mass: 2.461 grams

% Carbonate: 1.9 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.004	0.163	0.163
0.50	0.375	0.000	0.000	0.163
0.75	0.625	0.001	0.041	0.203
1.00	0.875	0.000	0.000	0.203
1.25	1.125	0.000	0.000	0.203
1.50	1.375	0.000	0.000	0.203
1.75	1.625	0.000	0.000	0.203
2.00	1.875	0.031	1.260	1.463
2.25	2.125	0.146	5.933	7.395
2.50	2.375	0.000	0.000	7.395
2.75	2.625	0.000	0.000	7.395
3.00	2.875	0.942	38.277	45.672
3.25	3.125	1.055	42.869	88.541
3.50	3.375	0.238	9.671	98.212
3.75	3.625	0.042	1.707	99.919
4.00	3.875	0.002	0.081	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.9817	phi	(0.1266 mm)
Standard Dev:	0.3321	phi-units	(0.7944 mm)
Skewness:	-2.3407	dimensionless	
Kurtosis:	14.5926	dimensionless	
5th Moment:	-94.9284	dimensionless	
6th Moment:	745.8664	dimensionless	
RARD *	0.1114	dimensionless	
Median	2.9002	phi	(0.1339 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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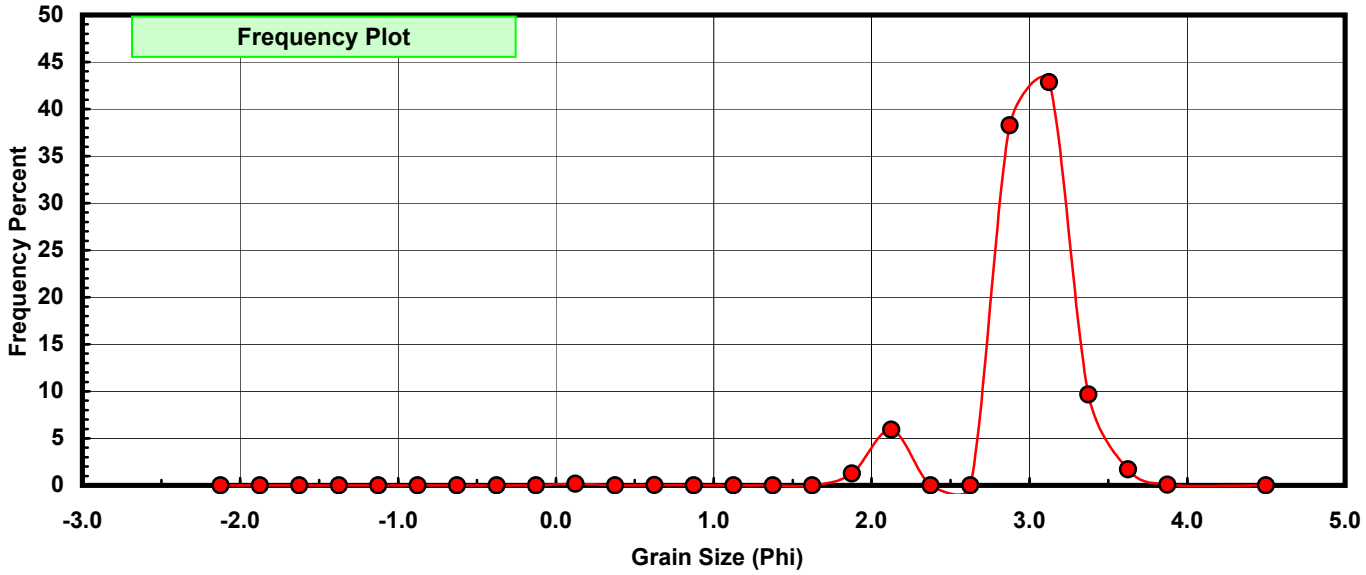

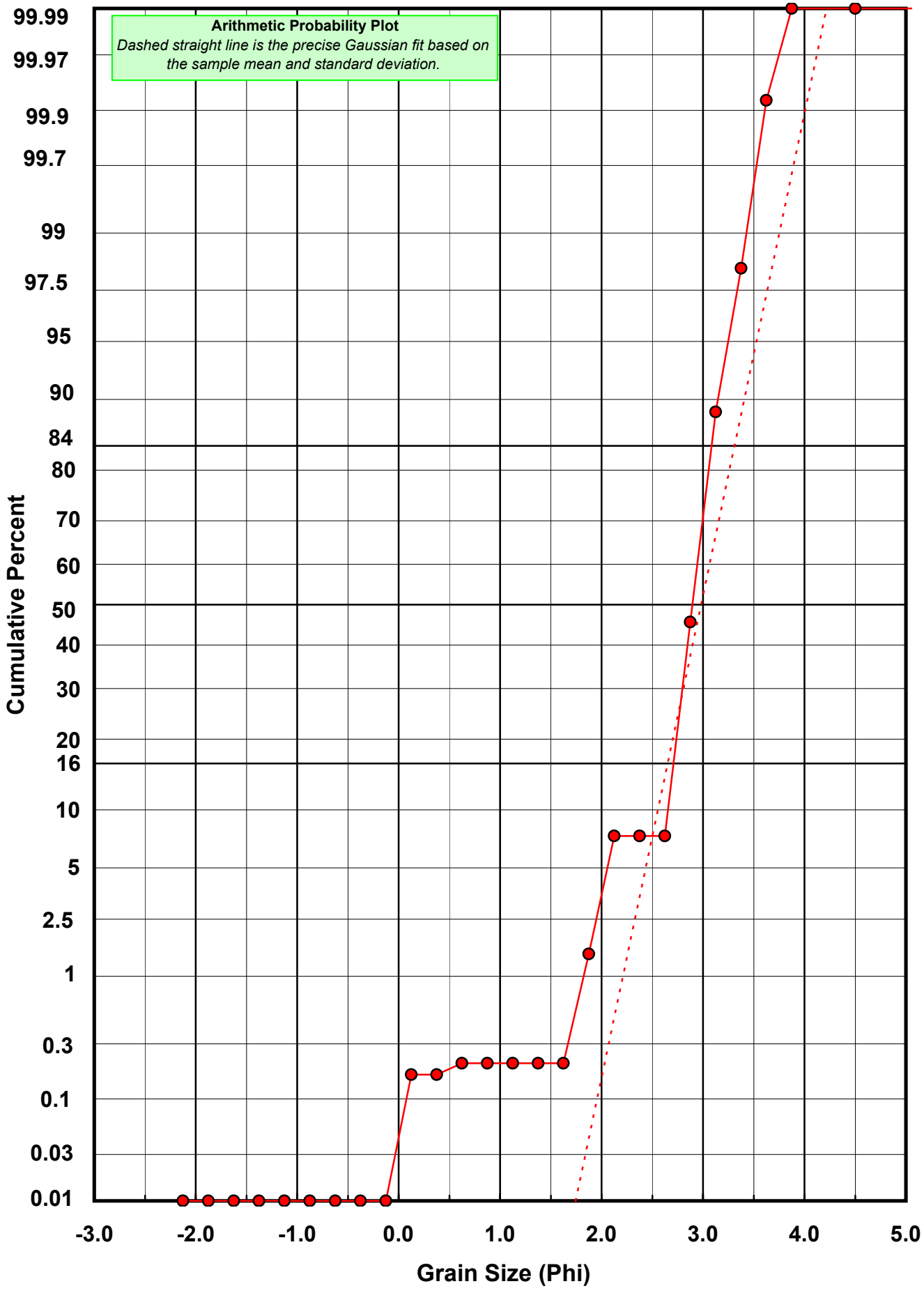
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-35-BB

Total Digested Mass: 50.929 grams

% Silica: 98.1 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.006	0.012	0.012
0.75	0.625	0.001	0.002	0.014
1.00	0.875	0.014	0.027	0.041
1.25	1.125	0.008	0.016	0.057
1.50	1.375	0.004	0.008	0.065
1.75	1.625	0.011	0.022	0.086
2.00	1.875	0.124	0.243	0.330
2.25	2.125	1.312	2.576	2.906
2.50	2.375	7.702	15.123	18.029
2.75	2.625	18.315	35.962	53.991
3.00	2.875	16.037	31.489	85.480
3.25	3.125	5.025	9.867	95.346
3.50	3.375	1.232	2.419	97.766
3.75	3.625	0.824	1.618	99.383
4.00	3.875	0.314	0.617	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7412	phi	(0.1496 mm)
Standard Dev:	0.3025	phi-units	(0.8108 mm)
Skewness:	0.4546	dimensionless	
Kurtosis:	5.2574	dimensionless	
5th Moment:	0.3315	dimensionless	
6th Moment:	84.1887	dimensionless	
RARD *	0.1104	dimensionless	
Median	2.5973	phi	(0.1653 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
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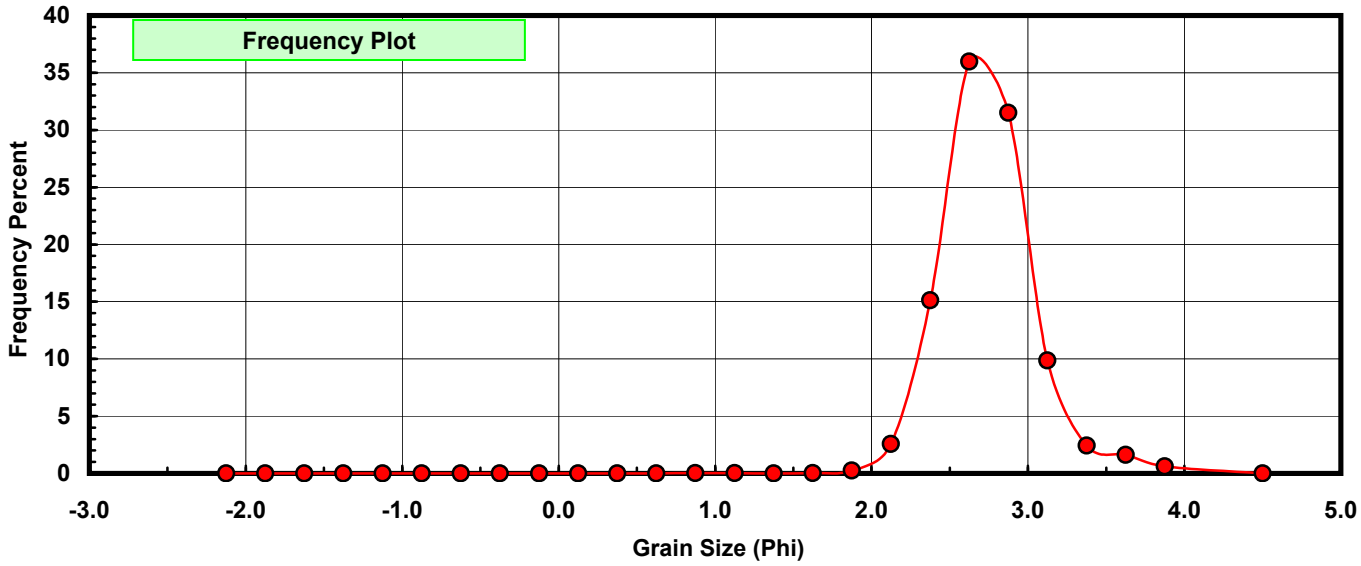

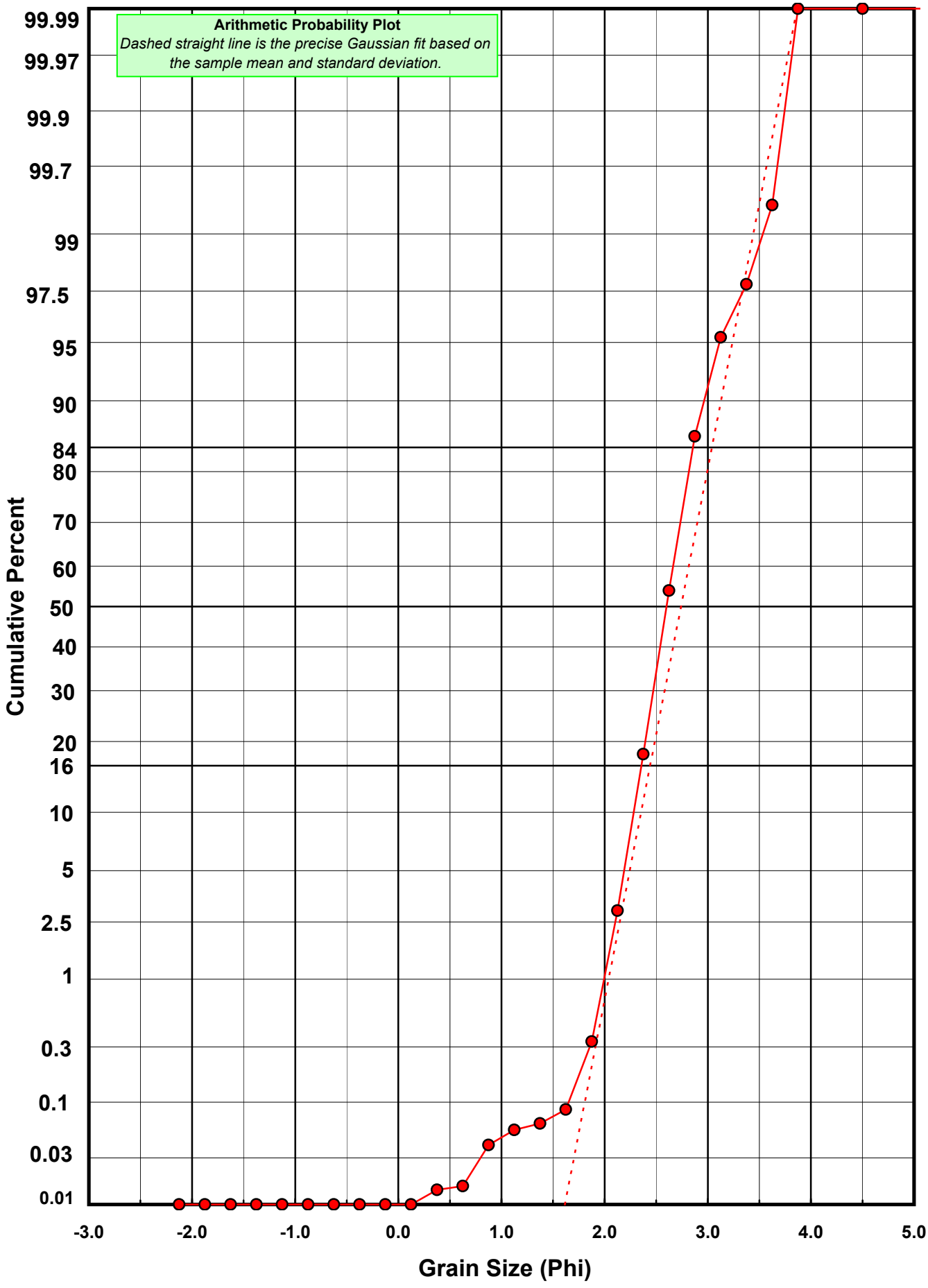
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0.3
0.1
0.03
0.01
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-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)