Onshore Grab Sample

Sample: SJ-43-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 29° 40' 59.7"
Longitude: 81° 13' 3.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	63.506	grams
Total Fines in Sample	0.850	grams
Total Percent Fines	1.32	%

Dry Sieving Summary

Total Sample Weight	62.531	grams
Total Digested Weight	61.675	grams
Total Carbonate Weight	0.856	grams
Total Silica %	98.63	%
Total Carbonate %	1.37	%
Carbonate/Silica Ratio	0.014	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-43-SS

Total Sample Mass: 62.531 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	0.009	0.014	0.014
-0.75	-0.875	0.007	0.011	0.026
-0.50	-0.625	0.000	0.000	0.026
-0.25	-0.375	0.003	0.005	0.030
0.00	-0.125	0.012	0.019	0.050
0.25	0.125	0.011	0.018	0.067
0.50	0.375	0.013	0.021	0.088
0.75	0.625	0.018	0.029	0.117
1.00	0.875	0.053	0.085	0.202
1.25	1.125	0.084	0.134	0.336
1.50	1.375	0.248	0.397	0.732
1.75	1.625	0.671	1.073	1.806
2.00	1.875	2.244	3.589	5.394
2.25	2.125	5.300	8.476	13.870
2.50	2.375	13.752	21.992	35.862
2.75	2.625	21.364	34.165	70.028
3.00	2.875	14.320	22.901	92.928
3.25	3.125	3.569	5.708	98.636
3.50	3.375	0.651	1.041	99.677
3.75	3.625	0.138	0.221	99.898
4.00	3.875	0.054	0.086	99.984
5.00	4.500	0.010	0.016	100.000

Statistical Results			
Mean:	2.5756	phi	(0.1677 mm)
Standard Dev:	0.3526	phi-units	(0.7831 mm)
Skewness:	-1.0086	dimensionless	
Kurtosis:	8.7572	dimensionless	
5th Moment:	-47.8825	dimensionless	
6th Moment:	433.2086	dimensionless	
RARD *	0.1369	dimensionless	
Median	2.4785	phi	(0.1794 mm)

* RARD = reciprocal absolute relative dispersion (see below)

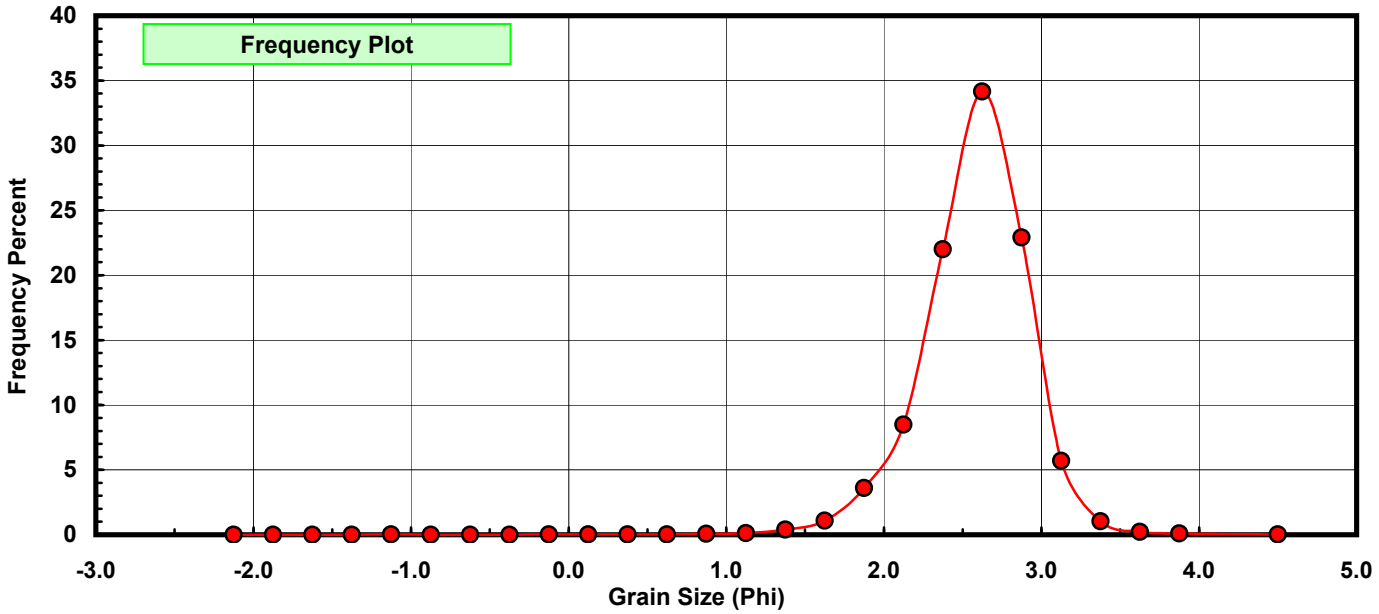
Statistical Explanation

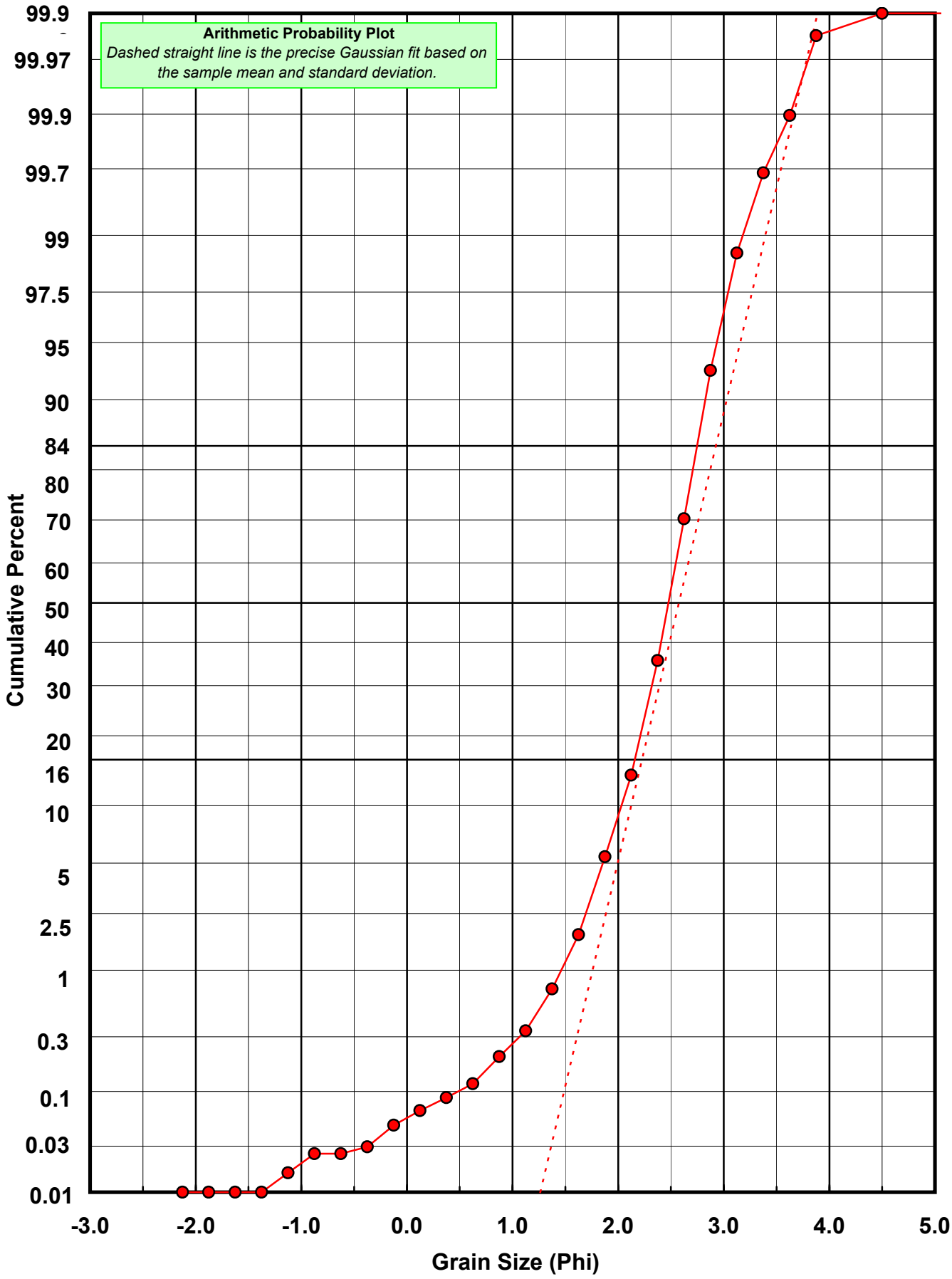
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-43-SS

Total Carbonate Mass: 1.635 grams

% Carbonate: 1.4 %

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	0.009	0.550	0.550
-0.75	-0.875	0.007	0.428	0.979
-0.50	-0.625	0.000	0.000	0.979
-0.25	-0.375	0.003	0.183	1.162
0.00	-0.125	0.012	0.734	1.896
0.25	0.125	0.011	0.673	2.569
0.50	0.375	0.009	0.550	3.119
0.75	0.625	0.013	0.795	3.914
1.00	0.875	0.031	1.896	5.810
1.25	1.125	0.026	1.590	7.401
1.50	1.375	0.046	2.813	10.214
1.75	1.625	0.055	3.364	13.578
2.00	1.875	0.136	8.318	21.896
2.25	2.125	0.285	17.431	39.327
2.50	2.375	0.922	56.391	95.719
2.75	2.625	0.000	0.000	95.719
3.00	2.875	0.000	0.000	95.719
3.25	3.125	0.050	3.058	98.777
3.50	3.375	0.015	0.917	99.694
3.75	3.625	0.000	0.000	99.694
4.00	3.875	0.005	0.306	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.1282	phi	(0.2287 mm)
Standard Dev:	0.6095	phi-units	(0.6554 mm)
Skewness:	-2.3288	dimensionless	
Kurtosis:	11.4838	dimensionless	
5th Moment:	-47.6002	dimensionless	
6th Moment:	234.3960	dimensionless	
RARD *	0.2864	dimensionless	
Median	2.1723	phi	(0.2219 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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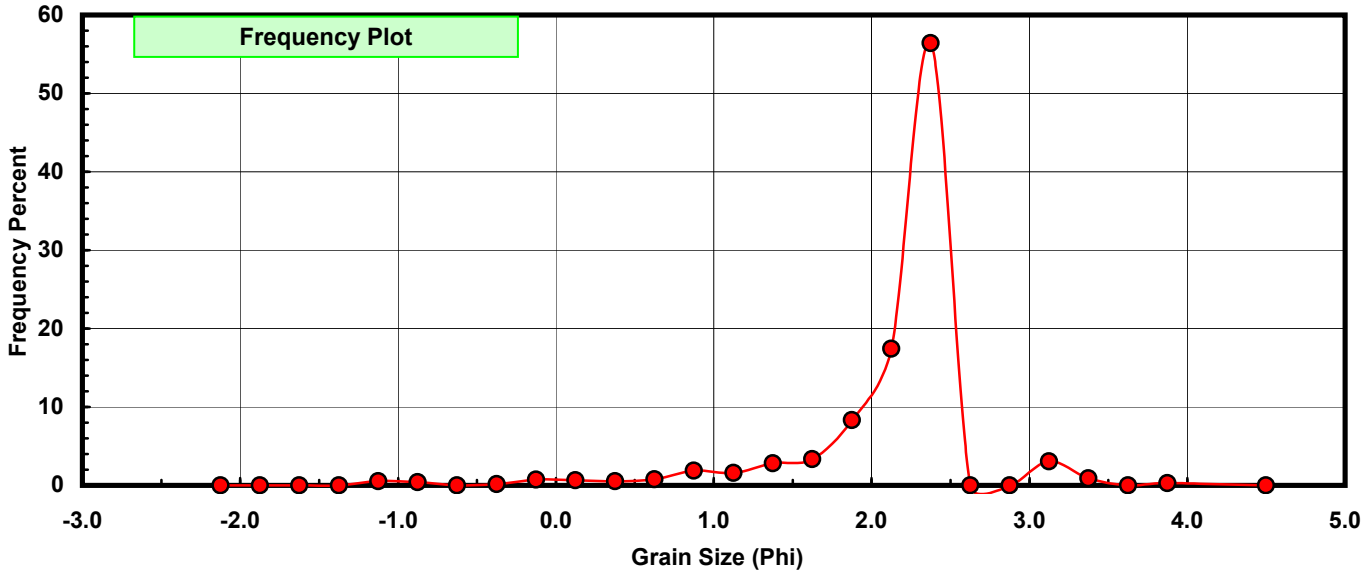

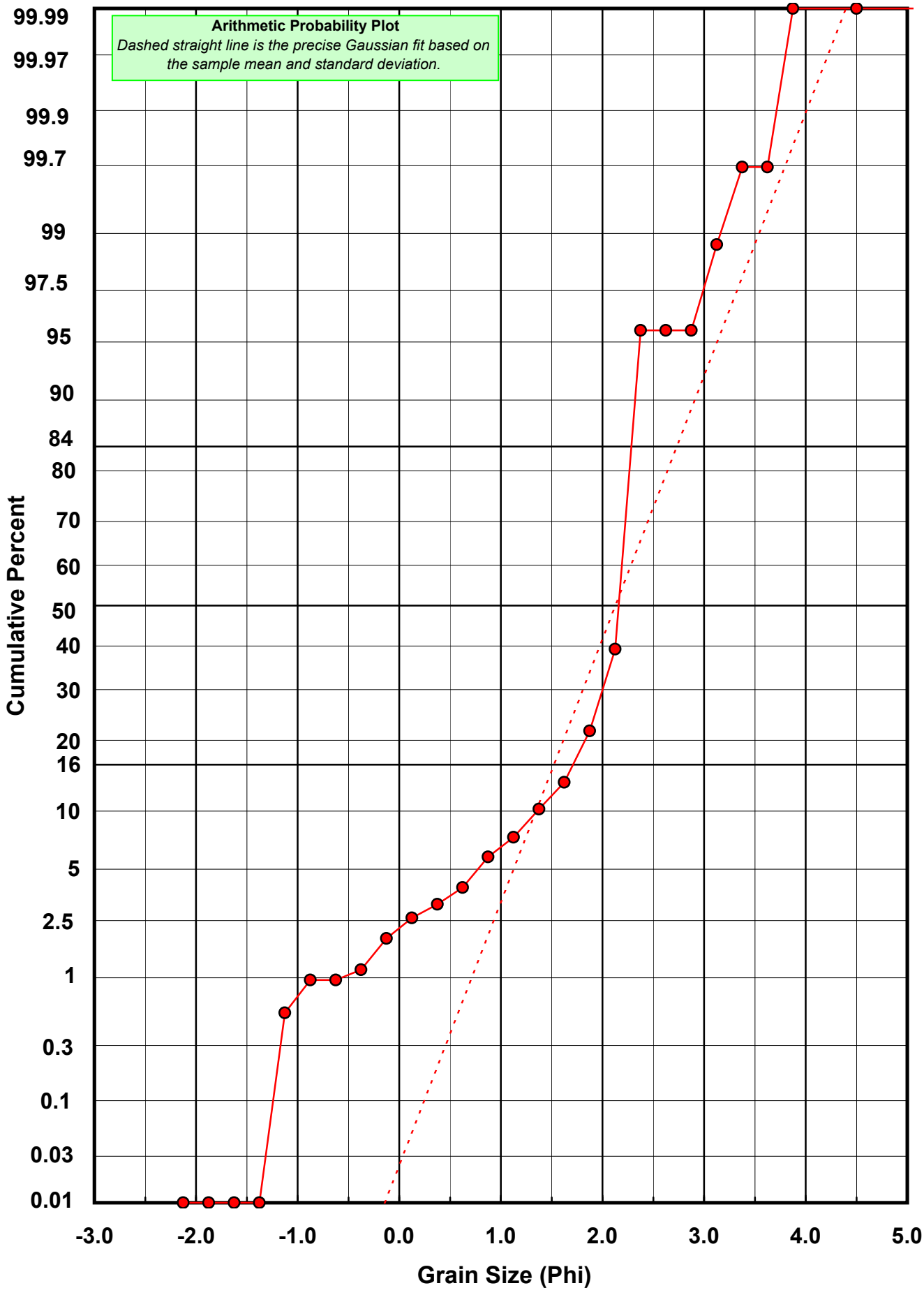
Arithmetic Probability Plot
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Cumulative Percent
99.99
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16
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2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-43-SS

Total Digested Mass: 61.660 grams

% Silica: 98.6 %

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	0.004	0.006	0.006
0.75	0.625	0.005	0.008	0.015
1.00	0.875	0.022	0.036	0.050
1.25	1.125	0.058	0.094	0.144
1.50	1.375	0.202	0.328	0.472
1.75	1.625	0.616	0.999	1.471
2.00	1.875	2.108	3.419	4.890
2.25	2.125	5.015	8.133	13.023
2.50	2.375	12.830	20.808	33.831
2.75	2.625	22.126	35.884	69.715
3.00	2.875	14.321	23.226	92.940
3.25	3.125	3.519	5.707	98.647
3.50	3.375	0.636	1.031	99.679
3.75	3.625	0.149	0.242	99.921
4.00	3.875	0.049	0.079	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5880	phi	(0.1663 mm)
Standard Dev:	0.3320	phi-units	(0.7945 mm)
Skewness:	-0.5427	dimensionless	
Kurtosis:	4.5265	dimensionless	
5th Moment:	-7.7030	dimensionless	
6th Moment:	49.2001	dimensionless	
RARD *	0.1283	dimensionless	
Median	2.4877	phi	(0.1783 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
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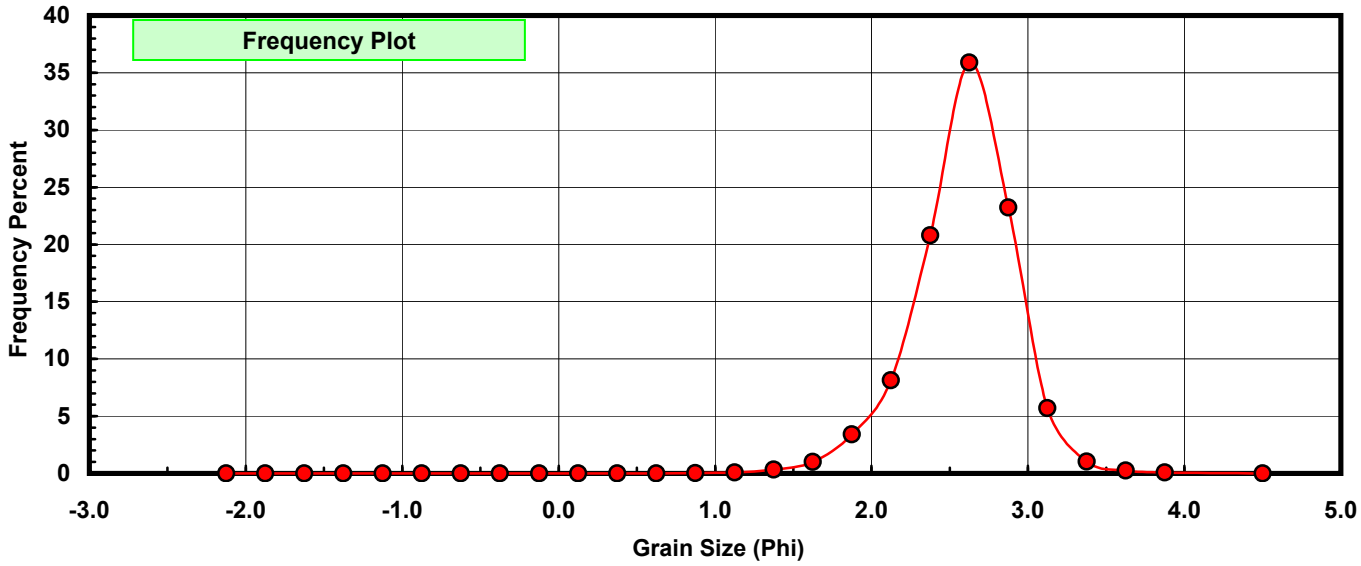

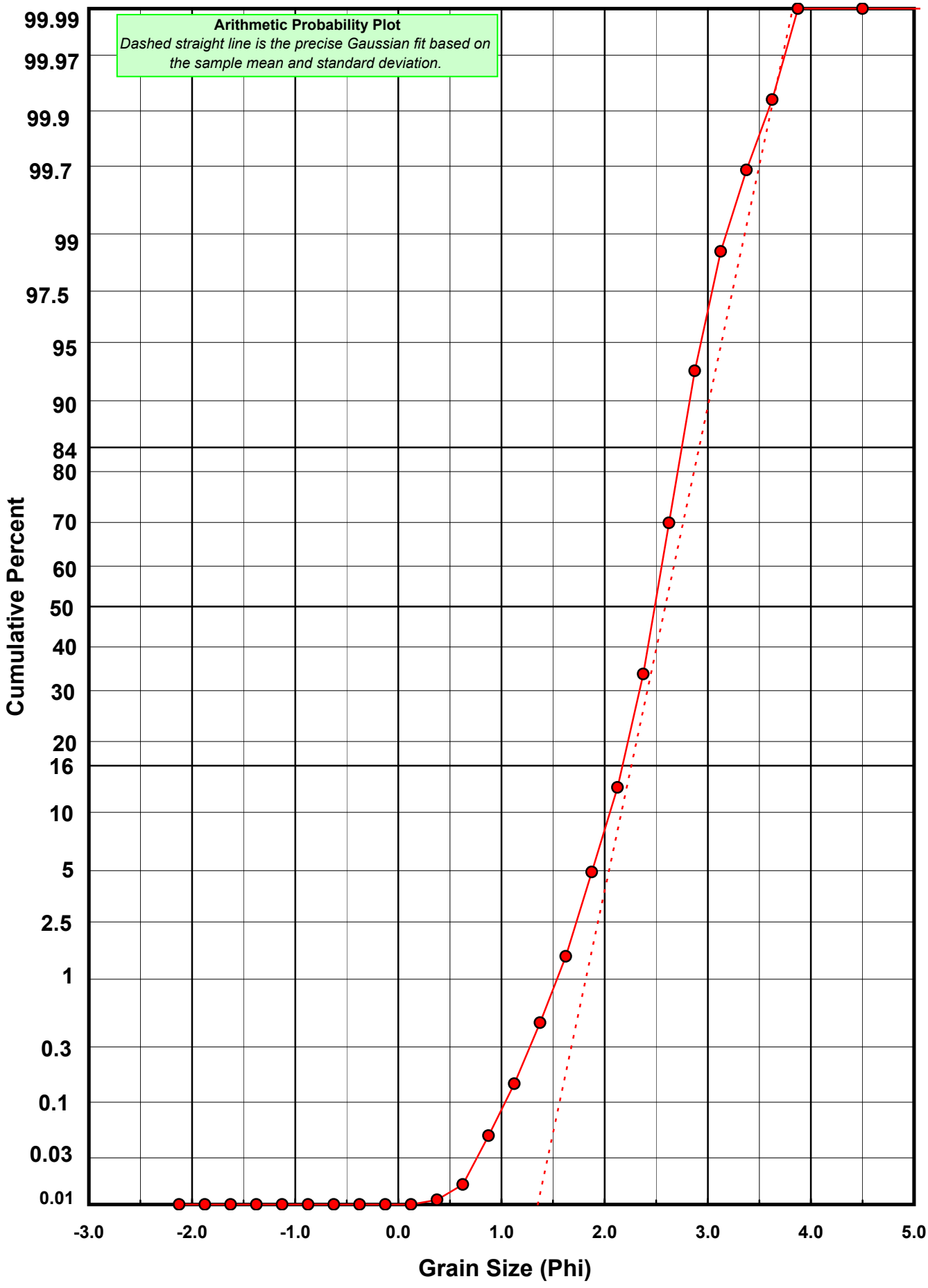
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Grain Size (Phi)