Onshore Grab Sample

Sample: SJ-30-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 50' 54.0"
Longitude: 81° 15' 50.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	65.06	grams
Total Fines in Sample	0.823	grams
Total Percent Fines	1.25	%

Dry Sieving Summary

Total Sample Weight	64.286	grams
Total Digested Weight	63.016	grams
Total Carbonate Weight	1.270	grams
Total Silica %	98.02	%
Total Carbonate %	1.98	%
Carbonate/Silica Ratio	0.020	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-30-SS

Total Sample Mass: 64.286 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	0.002	0.003	0.003
0.50	0.375	0.006	0.009	0.012
0.75	0.625	0.007	0.011	0.023
1.00	0.875	0.014	0.022	0.045
1.25	1.125	0.026	0.040	0.086
1.50	1.375	0.081	0.126	0.212
1.75	1.625	0.366	0.569	0.781
2.00	1.875	2.151	3.346	4.127
2.25	2.125	6.920	10.764	14.891
2.50	2.375	14.221	22.121	37.013
2.75	2.625	19.438	30.237	67.249
3.00	2.875	13.500	21.000	88.249
3.25	3.125	5.200	8.089	96.338
3.50	3.375	1.519	2.363	98.701
3.75	3.625	0.591	0.919	99.620
4.00	3.875	0.180	0.280	99.900
5.00	4.500	0.064	0.100	100.000

Statistical Results			
Mean:	2.6072	phi	(0.1641 mm)
Standard Dev:	0.3680	phi-units	(0.7749 mm)
Skewness:	0.1541	dimensionless	
Kurtosis:	4.3419	dimensionless	
5th Moment:	2.4818	dimensionless	
6th Moment:	51.4691	dimensionless	
RARD *	0.1411	dimensionless	
Median	2.4824	phi	(0.1789 mm)

* RARD = reciprocal absolute relative dispersion (see below)

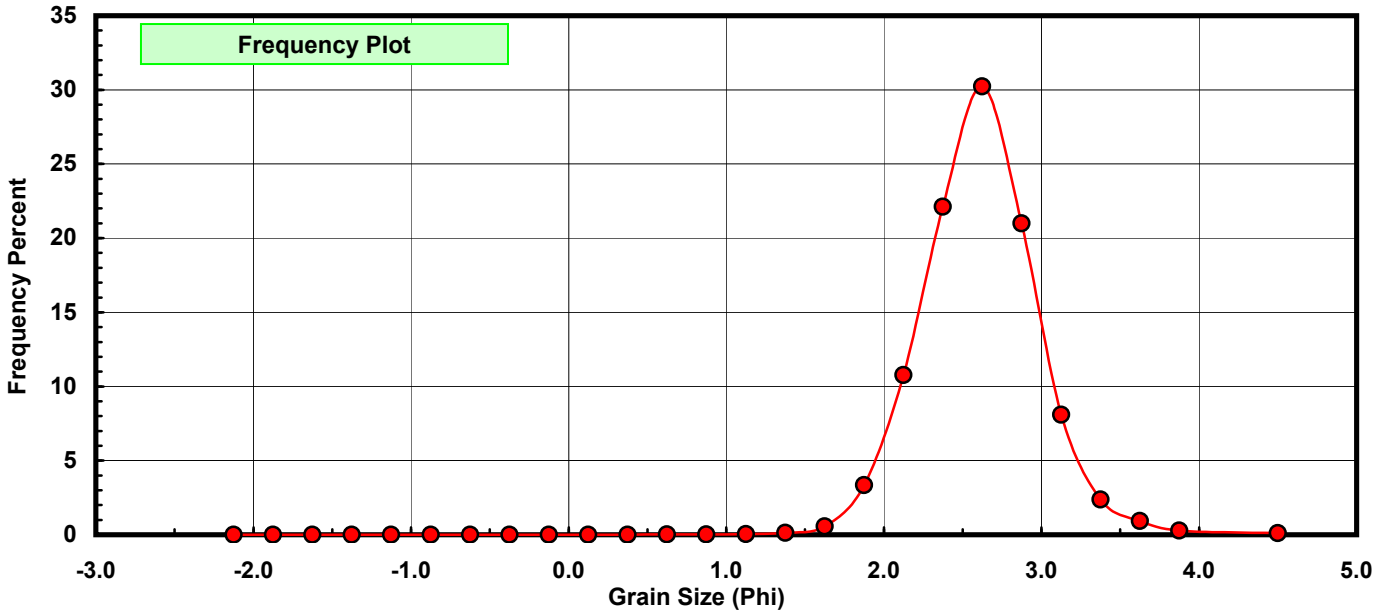
Statistical Explanation

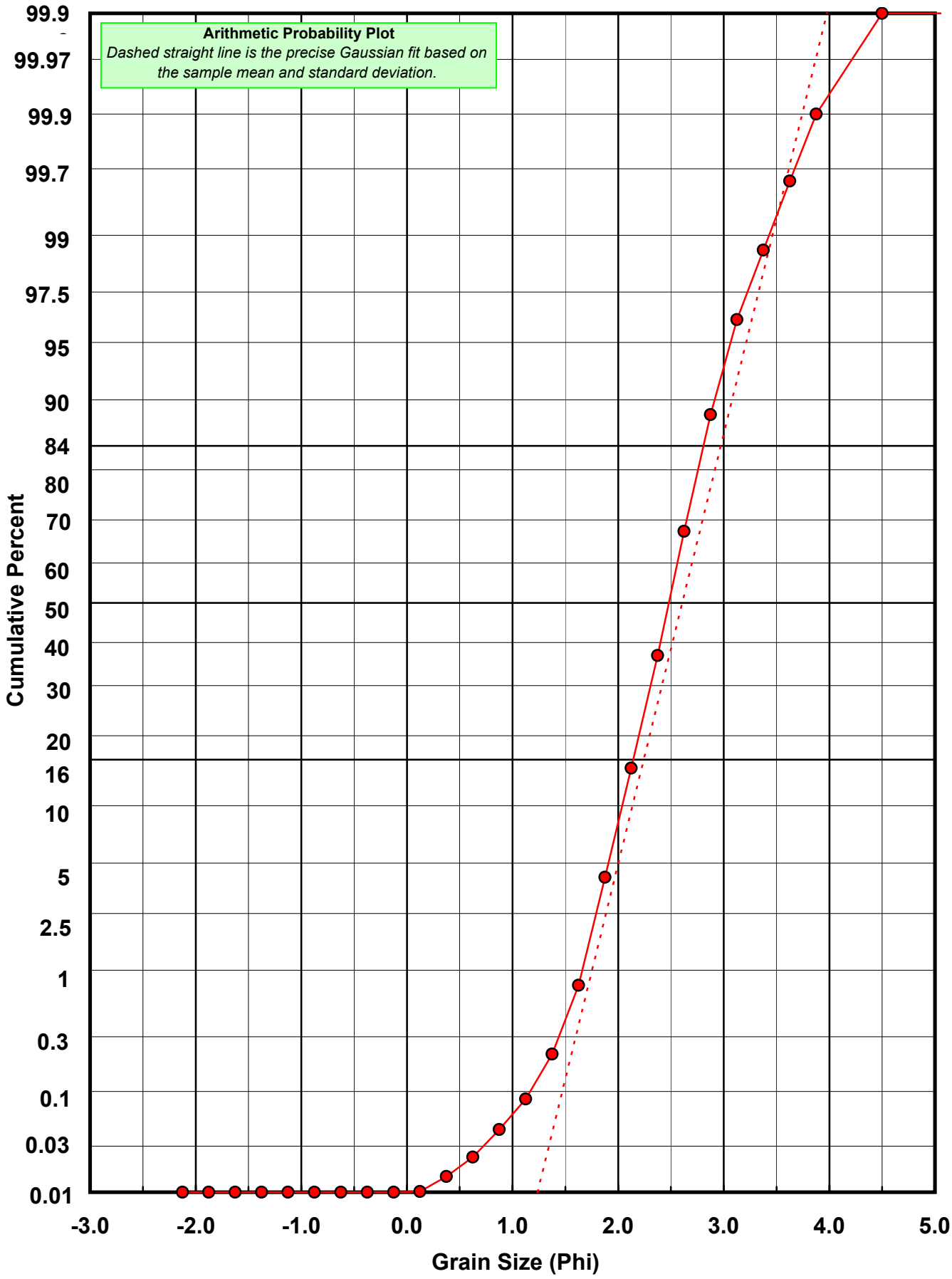
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-30-SS

Total Carbonate Mass: 1.644 grams

% Carbonate: 2.0 %

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	0.002	0.122	0.122
0.50	0.375	0.006	0.365	0.487
0.75	0.625	0.006	0.365	0.852
1.00	0.875	0.008	0.487	1.338
1.25	1.125	0.010	0.608	1.946
1.50	1.375	0.037	2.251	4.197
1.75	1.625	0.072	4.380	8.577
2.00	1.875	0.099	6.022	14.599
2.25	2.125	0.678	41.241	55.839
2.50	2.375	0.070	4.258	60.097
2.75	2.625	0.000	0.000	60.097
3.00	2.875	0.000	0.000	60.097
3.25	3.125	0.573	34.854	94.951
3.50	3.375	0.036	2.190	97.141
3.75	3.625	0.047	2.859	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:	2.4741	phi	(0.18 mm)
Standard Dev:	0.6270	phi-units	(0.6475 mm)
Skewness:	-0.1583	dimensionless	
Kurtosis:	2.5826	dimensionless	
5th Moment:	-3.5452	dimensionless	
6th Moment:	15.5499	dimensionless	
RARD *	0.2534	dimensionless	
Median	2.0896	phi	(0.2349 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
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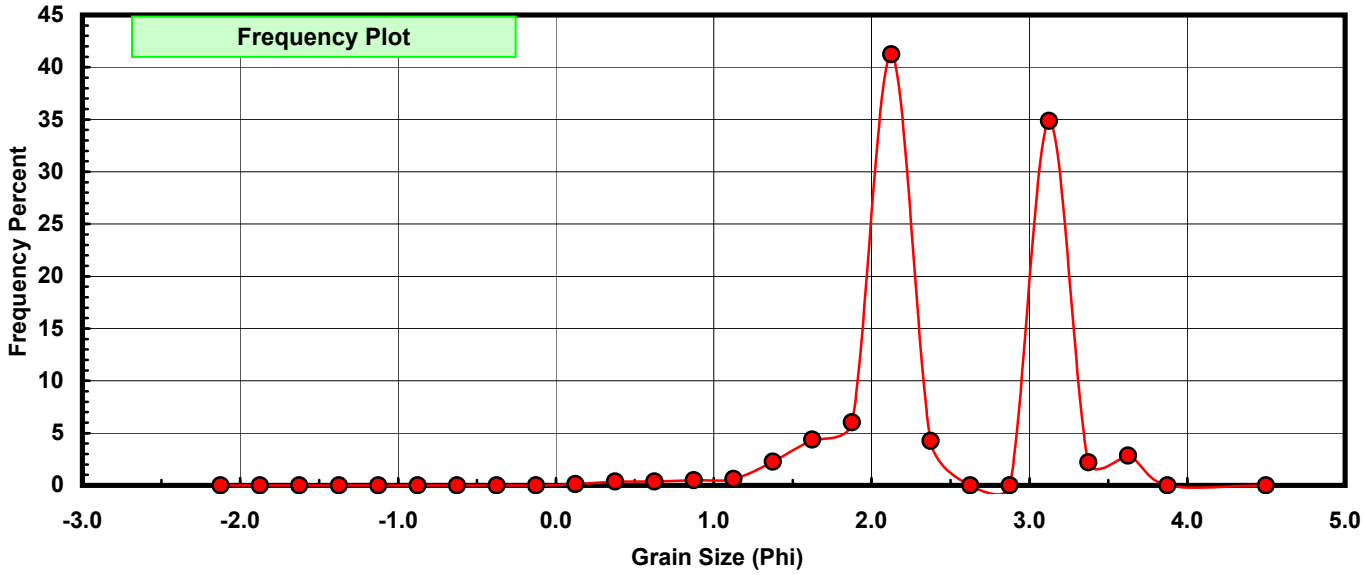

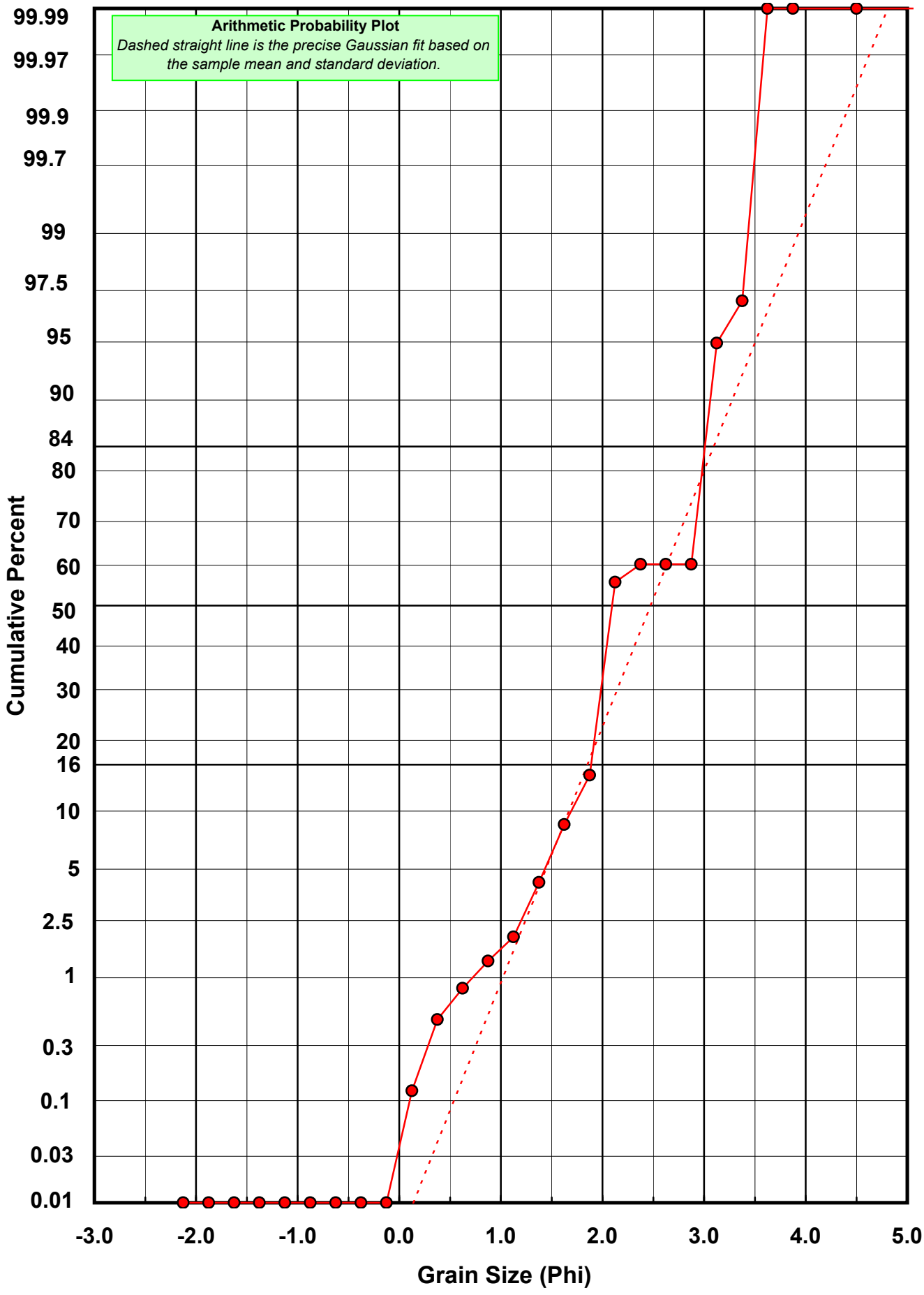
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-30-SS

Total Digested Mass: 62.971 grams

% Silica: 98.0 %

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	0.000	0.000	0.000
0.75	0.625	0.001	0.002	0.002
1.00	0.875	0.006	0.010	0.011
1.25	1.125	0.016	0.025	0.037
1.50	1.375	0.044	0.070	0.106
1.75	1.625	0.294	0.467	0.573
2.00	1.875	2.052	3.259	3.832
2.25	2.125	6.242	9.912	13.744
2.50	2.375	14.151	22.472	36.217
2.75	2.625	19.749	31.362	67.579
3.00	2.875	13.582	21.569	89.147
3.25	3.125	4.627	7.348	96.495
3.50	3.375	1.483	2.355	98.850
3.75	3.625	0.544	0.864	99.714
4.00	3.875	0.180	0.286	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6092	phi	(0.1639 mm)
Standard Dev:	0.3518	phi-units	(0.7836 mm)
Skewness:	0.1237	dimensionless	
Kurtosis:	3.6386	dimensionless	
5th Moment:	1.4937	dimensionless	
6th Moment:	25.1207	dimensionless	
RARD *	0.1348	dimensionless	
Median	2.4849	phi	(0.1786 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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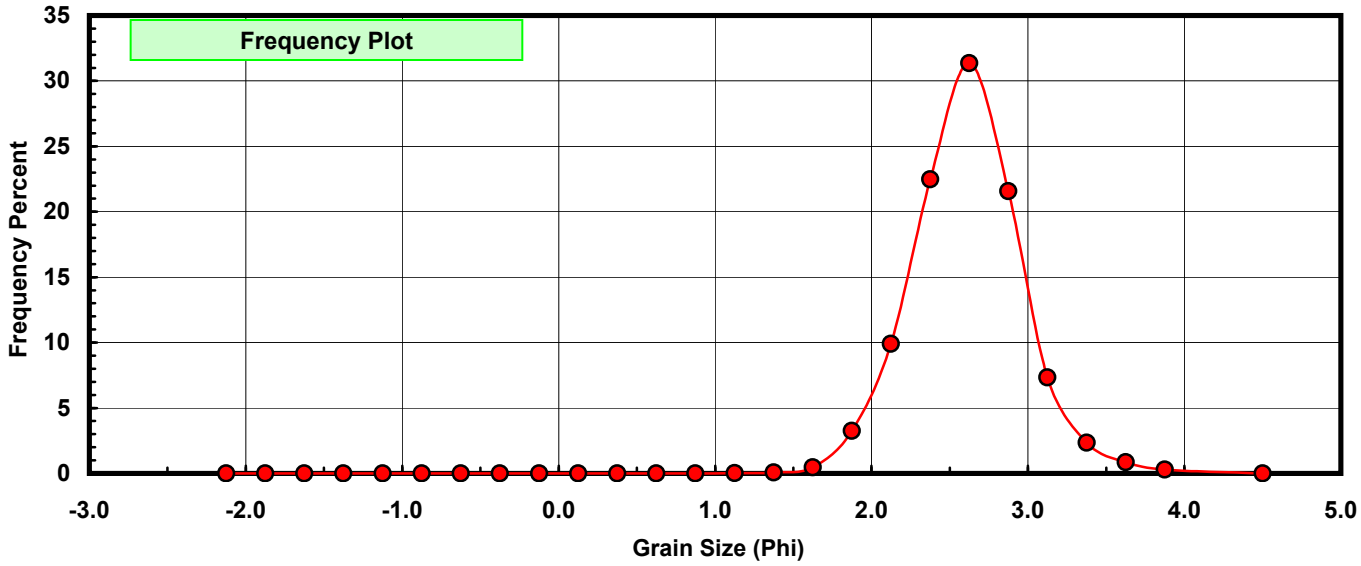

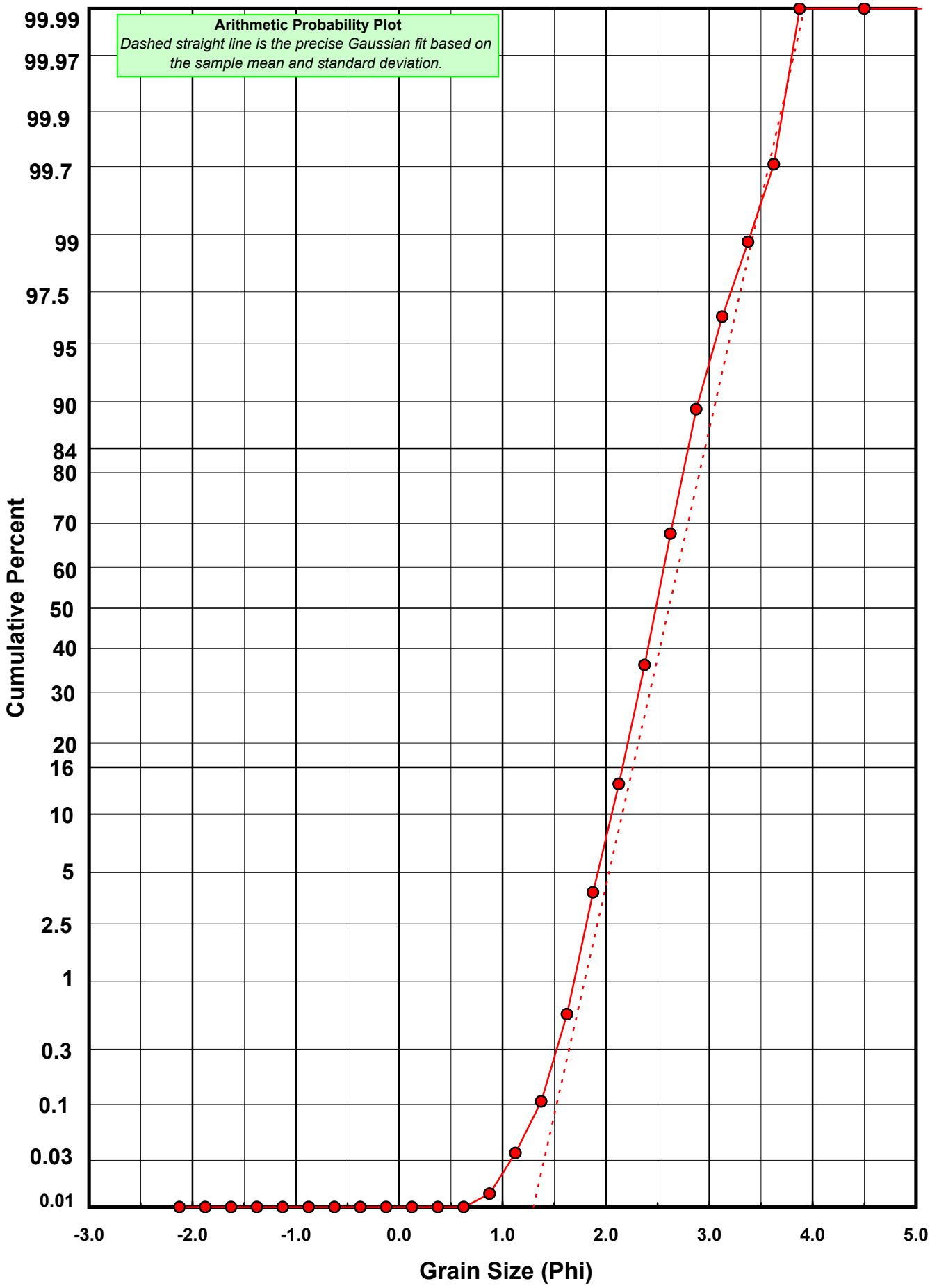
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-2.0
-1.0
0.0
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Grain Size (Phi)