Onshore Grab Sample

Sample: SJ-28-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 52' 31.8"
Longitude: 81° 16' 15.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	46.799	grams
Total Fines in Sample	0.142	grams
Total Percent Fines	0.30	%

Dry Sieving Summary

Total Sample Weight	46.601	grams
Total Digested Weight	44.264	grams
Total Carbonate Weight	2.337	grams
Total Silica %	94.99	%
Total Carbonate %	5.01	%
Carbonate/Silica Ratio	0.053	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-28-BB

Total Sample Mass: 46.601 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	0.002	0.004	0.004
-0.25	-0.375	0.000	0.000	0.004
0.00	-0.125	0.007	0.015	0.019
0.25	0.125	0.004	0.009	0.028
0.50	0.375	0.013	0.028	0.056
0.75	0.625	0.035	0.075	0.131
1.00	0.875	0.183	0.393	0.524
1.25	1.125	0.521	1.118	1.642
1.50	1.375	1.717	3.684	5.326
1.75	1.625	2.705	5.805	11.131
2.00	1.875	3.238	6.948	18.079
2.25	2.125	4.346	9.326	27.405
2.50	2.375	7.847	16.839	44.244
2.75	2.625	11.305	24.259	68.503
3.00	2.875	9.110	19.549	88.052
3.25	3.125	3.734	8.013	96.064
3.50	3.375	1.311	2.813	98.878
3.75	3.625	0.391	0.839	99.717
4.00	3.875	0.097	0.208	99.925
5.00	4.500	0.035	0.075	100.000

Statistical Results			
Mean:	2.4760	phi	(0.1797 mm)
Standard Dev:	0.5276	phi-units	(0.6937 mm)
Skewness:	-0.5570	dimensionless	
Kurtosis:	3.4114	dimensionless	
5th Moment:	-4.1467	dimensionless	
6th Moment:	23.0569	dimensionless	
RARD *	0.2131	dimensionless	
Median	2.4343	phi	(0.185 mm)

* RARD = reciprocal absolute relative dispersion (see below)

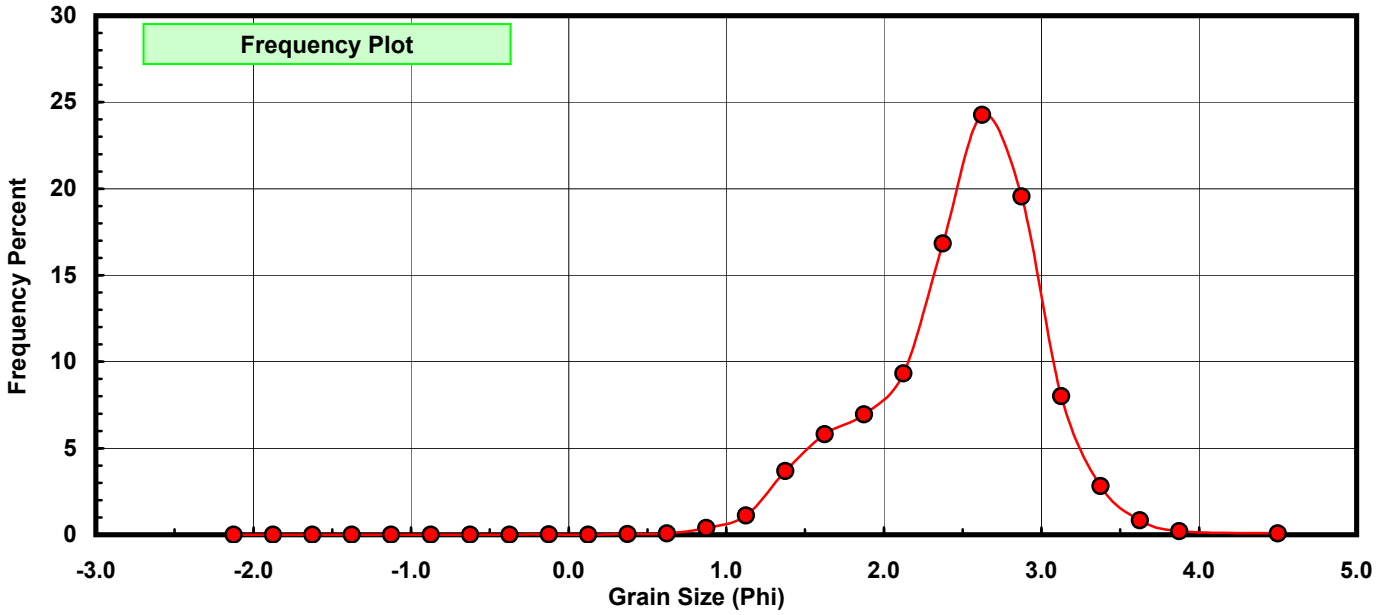
Statistical Explanation

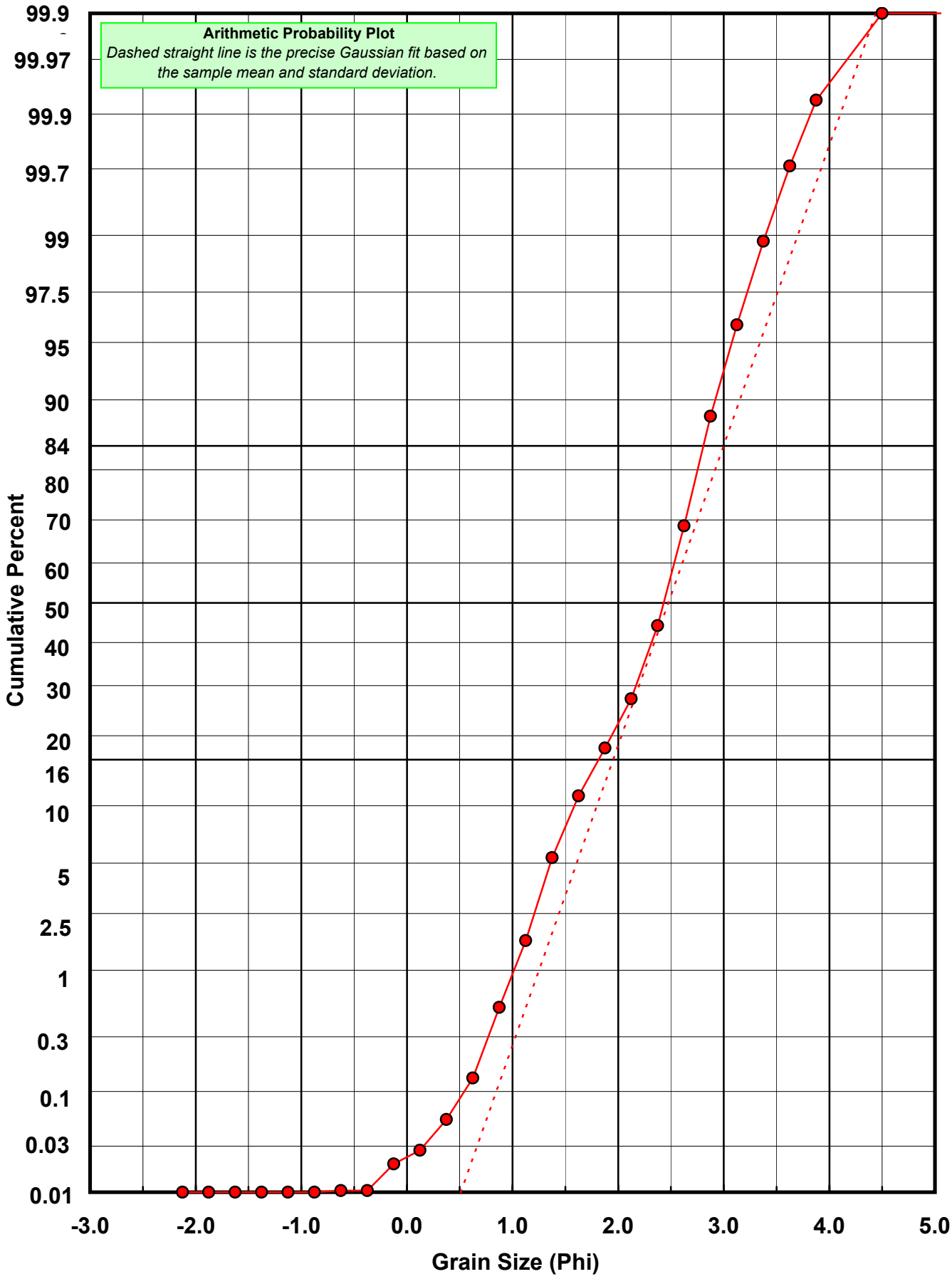
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-28-BB

Total Carbonate Mass: 2.574 grams

% Carbonate: 5.0 %

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	0.002	0.078	0.078
-0.25	-0.375	0.000	0.000	0.078
0.00	-0.125	0.005	0.194	0.272
0.25	0.125	0.003	0.117	0.389
0.50	0.375	0.012	0.466	0.855
0.75	0.625	0.033	1.282	2.137
1.00	0.875	0.153	5.944	8.081
1.25	1.125	0.215	8.353	16.434
1.50	1.375	0.389	15.113	31.546
1.75	1.625	0.350	13.598	45.144
2.00	1.875	0.249	9.674	54.817
2.25	2.125	0.309	12.005	66.822
2.50	2.375	0.765	29.720	96.542
2.75	2.625	0.000	0.000	96.542
3.00	2.875	0.046	1.787	98.329
3.25	3.125	0.027	1.049	99.378
3.50	3.375	0.000	0.000	99.378
3.75	3.625	0.016	0.622	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:	1.8329	phi	(0.2807 mm)
Standard Dev:	0.5768	phi-units	(0.6704 mm)
Skewness:	-0.1961	dimensionless	
Kurtosis:	3.0171	dimensionless	
5th Moment:	-1.3048	dimensionless	
6th Moment:	20.0123	dimensionless	
RARD *	0.3147	dimensionless	
Median	1.7505	phi	(0.2972 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)
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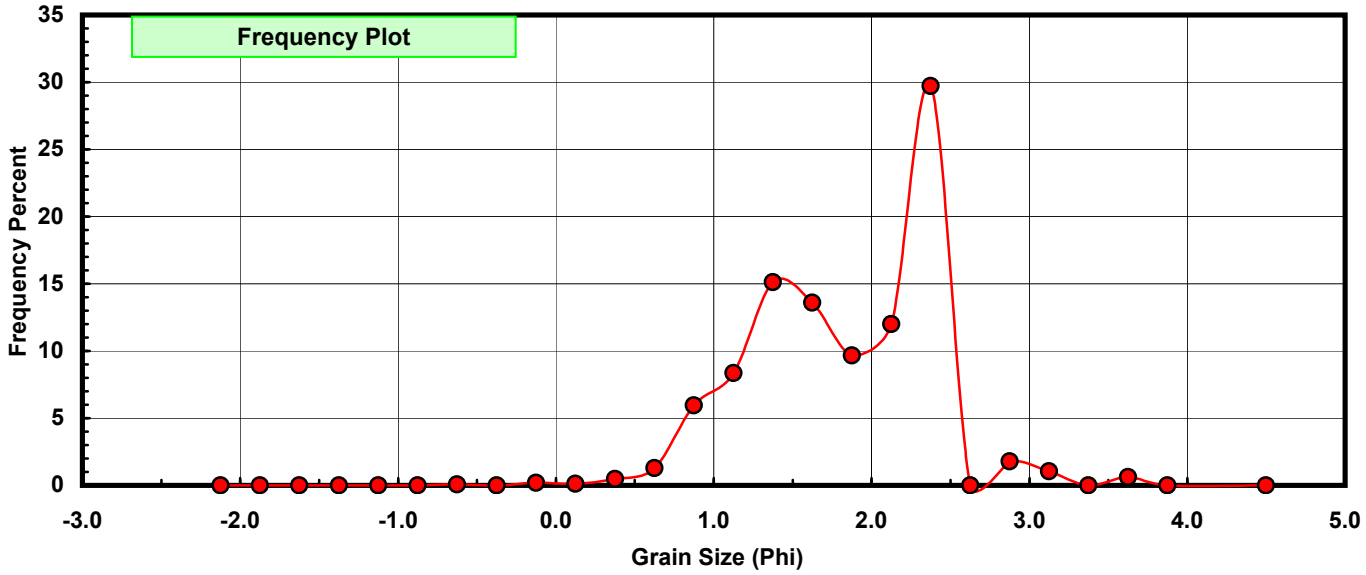
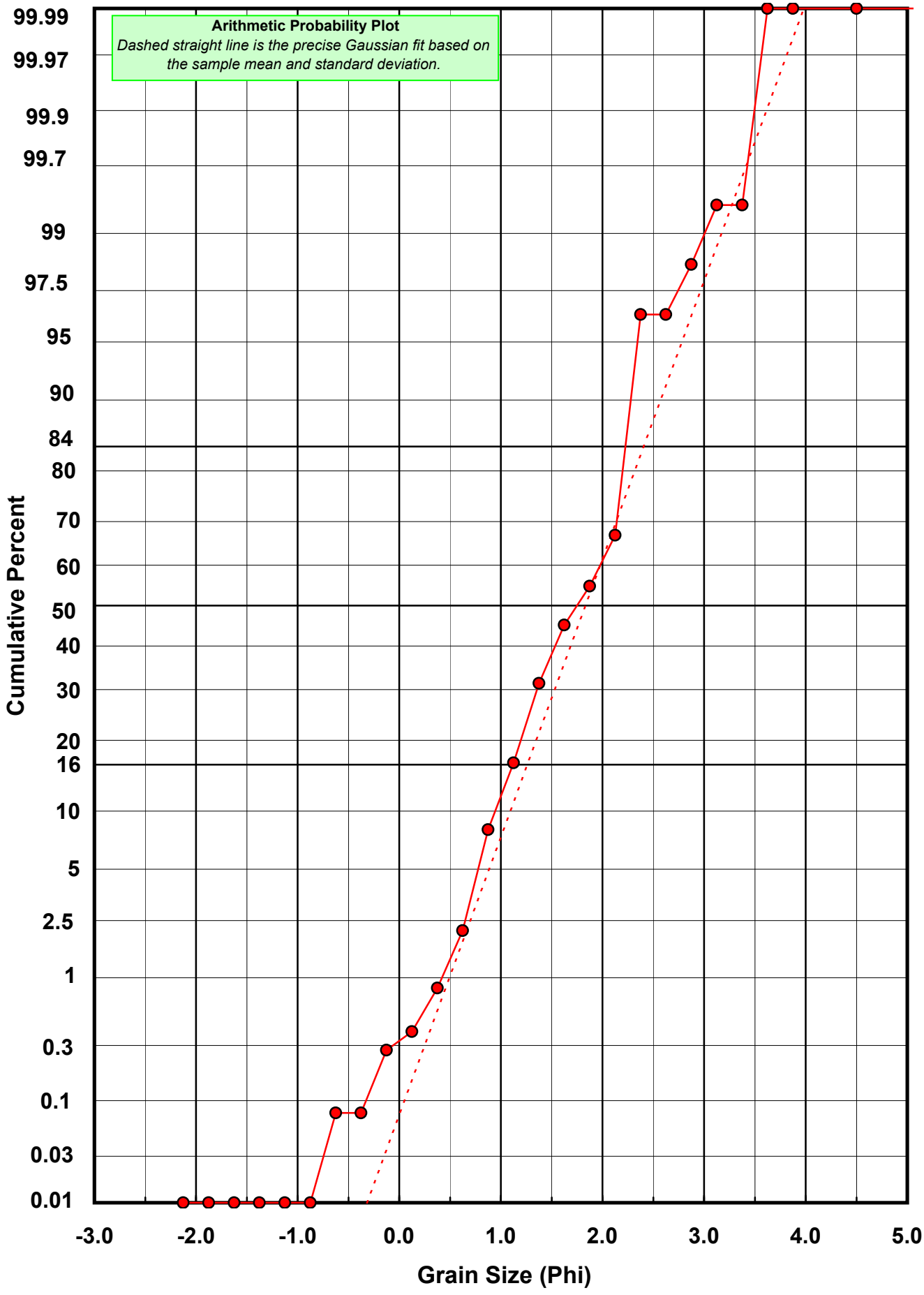
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)




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: SJ-28-BB

Total Digested Mass: 44.238 grams

% Silica: 95.0 %

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	0.002	0.005	0.005
0.25	0.125	0.001	0.002	0.007
0.50	0.375	0.001	0.002	0.009
0.75	0.625	0.002	0.005	0.014
1.00	0.875	0.030	0.068	0.081
1.25	1.125	0.306	0.692	0.773
1.50	1.375	1.328	3.002	3.775
1.75	1.625	2.355	5.323	9.099
2.00	1.875	2.989	6.757	15.855
2.25	2.125	4.037	9.126	24.981
2.50	2.375	7.082	16.009	40.990
2.75	2.625	11.529	26.061	67.051
3.00	2.875	9.064	20.489	87.540
3.25	3.125	3.707	8.380	95.920
3.50	3.375	1.329	3.004	98.924
3.75	3.625	0.375	0.848	99.772
4.00	3.875	0.101	0.228	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5130	phi	(0.1752 mm)
Standard Dev:	0.4951	phi-units	(0.7095 mm)
Skewness:	-0.5229	dimensionless	
Kurtosis:	3.1345	dimensionless	
5th Moment:	-3.4417	dimensionless	
6th Moment:	15.9970	dimensionless	
RARD *	0.1970	dimensionless	
Median	2.4614	phi	(0.1816 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

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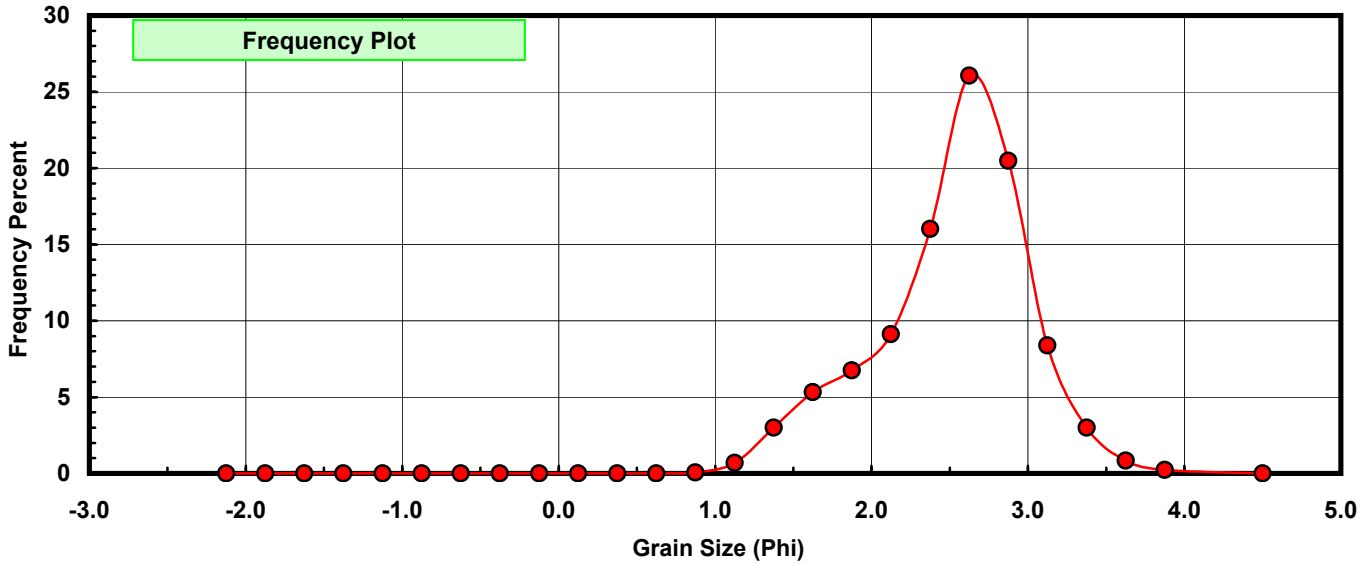

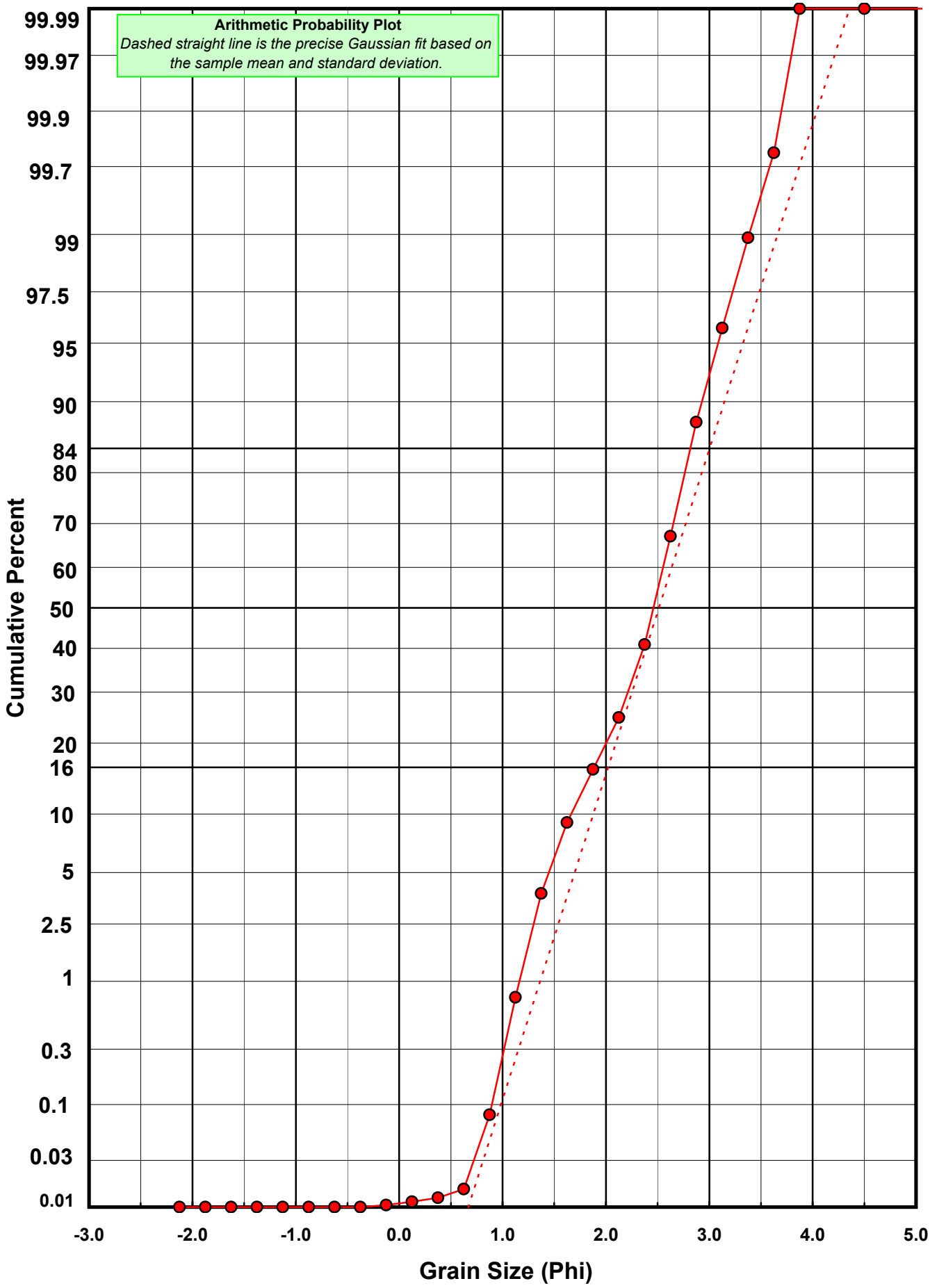
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0.1
0.03
0.01
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-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)