Onshore Grab Sample

Sample: SJ-29-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 51' 44.1"
Longitude: 81° 16' 0.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	76.77	grams
Total Fines in Sample	0.181	grams
Total Percent Fines	0.24	%

Dry Sieving Summary

Total Sample Weight	76.262	grams
Total Digested Weight	73.490	grams
Total Carbonate Weight	2.772	grams
Total Silica %	96.37	%
Total Carbonate %	3.63	%
Carbonate/Silica Ratio	0.038	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-29-MB

Total Sample Mass: 76.262 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	0.009	0.012	0.012
-1.00	-1.125	0.000	0.000	0.012
-0.75	-0.875	0.000	0.000	0.012
-0.50	-0.625	0.000	0.000	0.012
-0.25	-0.375	0.003	0.004	0.016
0.00	-0.125	0.008	0.010	0.026
0.25	0.125	0.017	0.022	0.049
0.50	0.375	0.036	0.047	0.096
0.75	0.625	0.076	0.100	0.195
1.00	0.875	0.333	0.437	0.632
1.25	1.125	0.424	0.556	1.188
1.50	1.375	0.805	1.056	2.244
1.75	1.625	1.988	2.607	4.850
2.00	1.875	4.309	5.650	10.501
2.25	2.125	8.508	11.156	21.657
2.50	2.375	15.098	19.798	41.454
2.75	2.625	21.410	28.074	69.529
3.00	2.875	14.796	19.402	88.930
3.25	3.125	5.613	7.360	96.290
3.50	3.375	1.912	2.507	98.798
3.75	3.625	0.679	0.890	99.688
4.00	3.875	0.176	0.231	99.919
5.00	4.500	0.062	0.081	100.000

Statistical Results			
Mean:	2.5350	phi	(0.1725 mm)
Standard Dev:	0.4538	phi-units	(0.7301 mm)
Skewness:	-0.6530	dimensionless	
Kurtosis:	5.4732	dimensionless	
5th Moment:	-13.9300	dimensionless	
6th Moment:	103.4183	dimensionless	
RARD *	0.1790	dimensionless	
Median	2.4511	phi	(0.1829 mm)

* RARD = reciprocal absolute relative dispersion (see below)

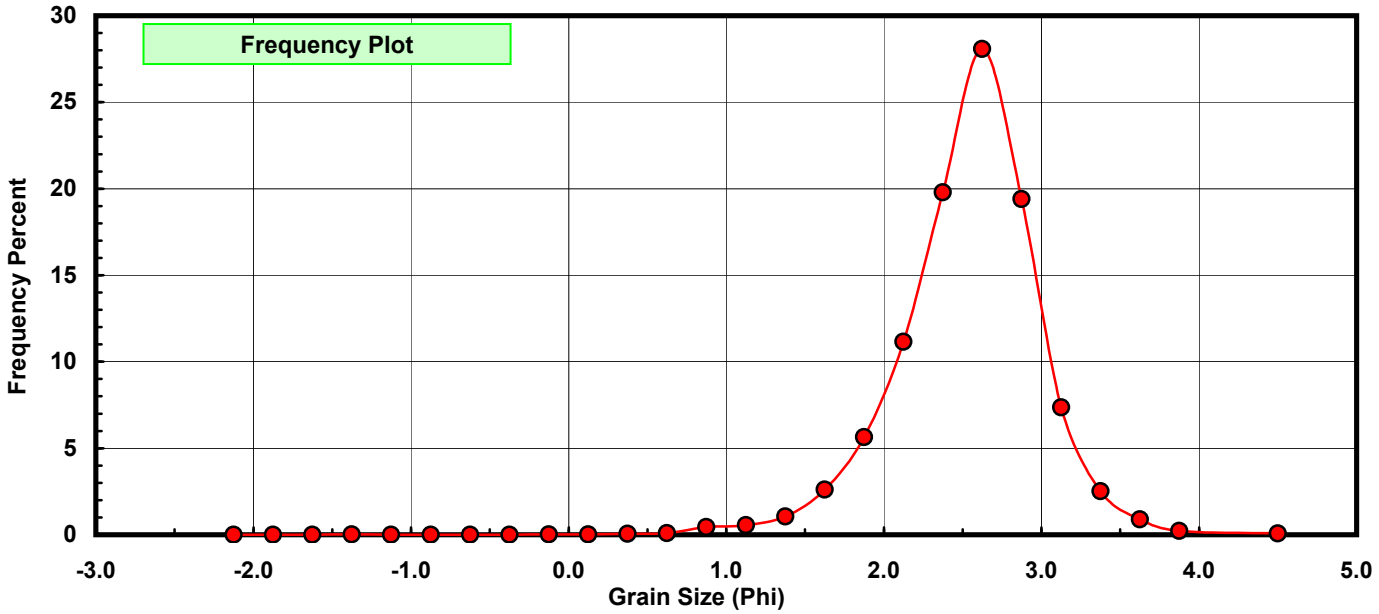
Statistical Explanation

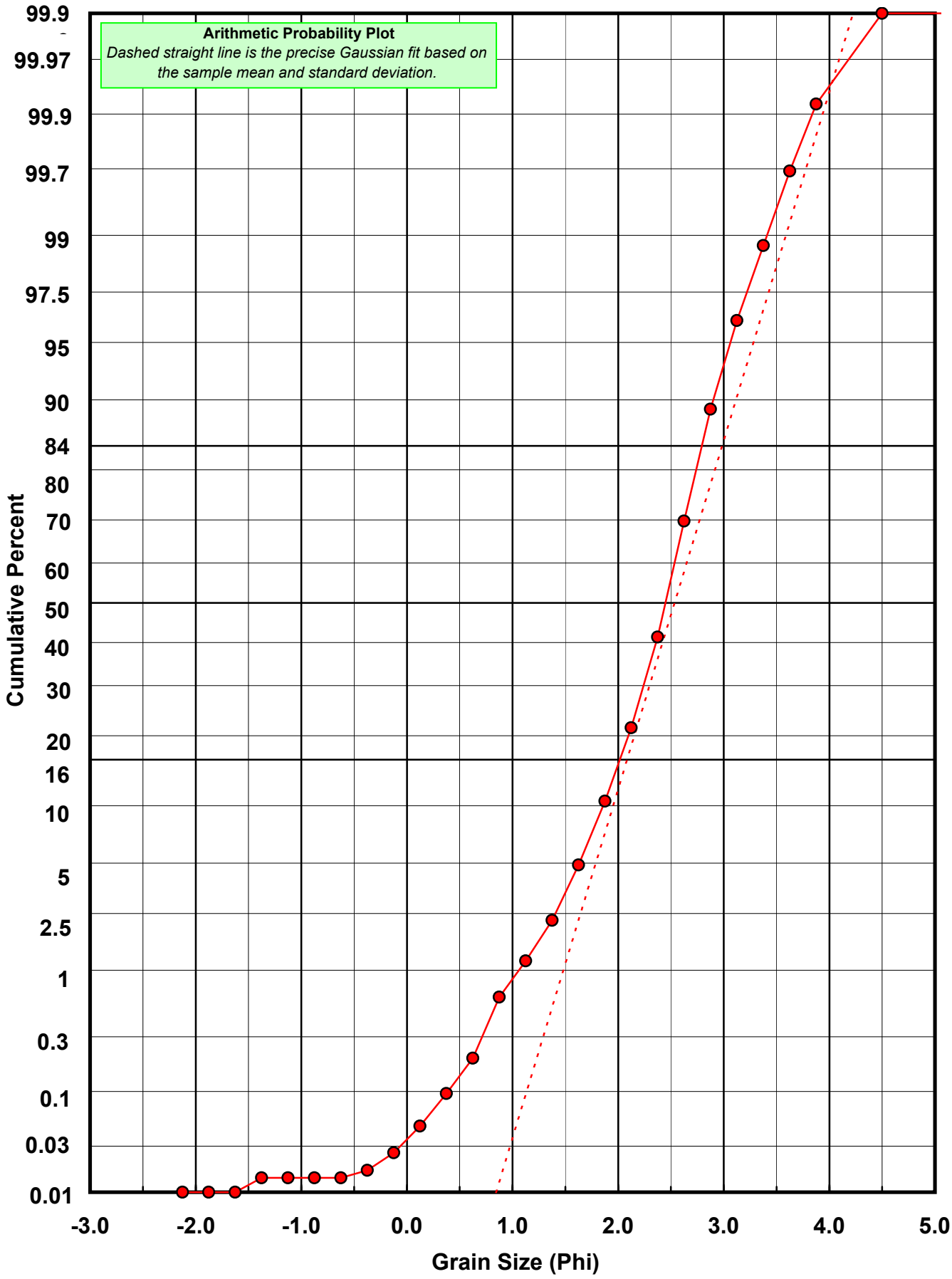
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-29-MB

Total Carbonate Mass: 2.977 grams

% Carbonate: 3.6 %

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	0.009	0.302	0.302
-1.00	-1.125	0.000	0.000	0.302
-0.75	-0.875	0.000	0.000	0.302
-0.50	-0.625	0.000	0.000	0.302
-0.25	-0.375	0.003	0.101	0.403
0.00	-0.125	0.008	0.269	0.672
0.25	0.125	0.017	0.571	1.243
0.50	0.375	0.032	1.075	2.318
0.75	0.625	0.058	1.948	4.266
1.00	0.875	0.169	5.677	9.943
1.25	1.125	0.166	5.576	15.519
1.50	1.375	0.228	7.659	23.178
1.75	1.625	0.293	9.842	33.020
2.00	1.875	0.000	0.000	33.020
2.25	2.125	0.000	0.000	33.020
2.50	2.375	0.000	0.000	33.020
2.75	2.625	1.051	35.304	68.324
3.00	2.875	0.153	5.139	73.463
3.25	3.125	0.488	16.392	89.856
3.50	3.375	0.159	5.341	95.197
3.75	3.625	0.117	3.930	99.127
4.00	3.875	0.026	0.873	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3330	phi	(0.1985 mm)
Standard Dev:	0.8973	phi-units	(0.5369 mm)
Skewness:	-0.7671	dimensionless	
Kurtosis:	2.9946	dimensionless	
5th Moment:	-6.2900	dimensionless	
6th Moment:	22.6090	dimensionless	
RARD *	0.3846	dimensionless	
Median	2.4952	phi	(0.1774 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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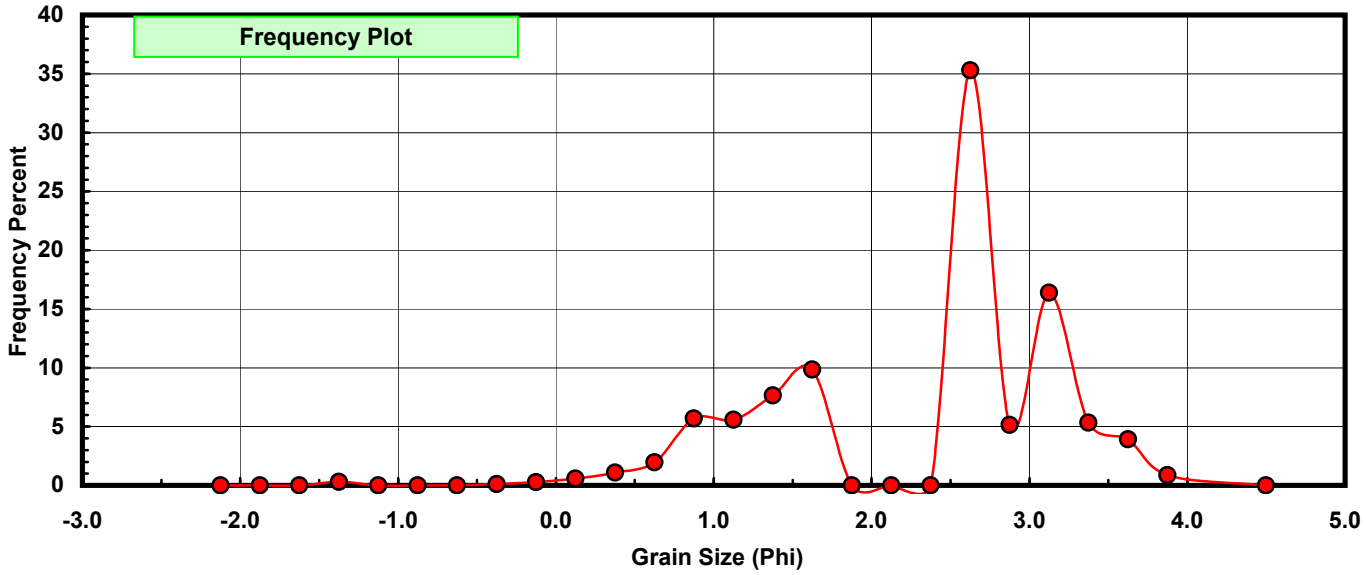

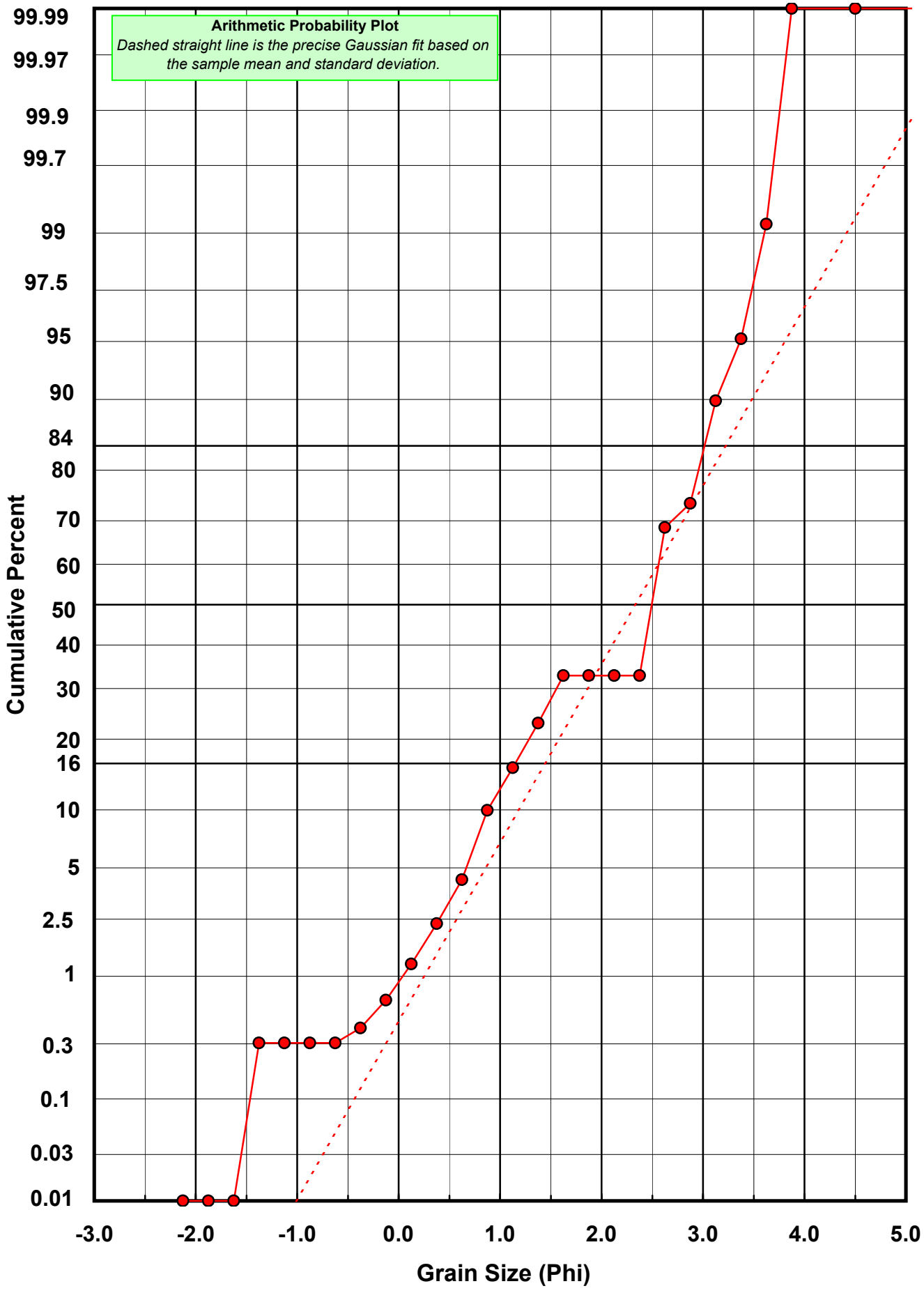
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-29-MB

Total Digested Mass: 73.443 grams

% Silica: 96.4 %

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	0.000	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	0.005	0.005
0.75	0.625	0.018	0.025	0.030
1.00	0.875	0.164	0.223	0.253
1.25	1.125	0.258	0.351	0.605
1.50	1.375	0.577	0.786	1.390
1.75	1.625	1.695	2.308	3.698
2.00	1.875	4.397	5.987	9.685
2.25	2.125	8.598	11.707	21.392
2.50	2.375	15.140	20.615	42.007
2.75	2.625	20.359	27.721	69.728
3.00	2.875	14.643	19.938	89.665
3.25	3.125	5.125	6.978	96.644
3.50	3.375	1.753	2.387	99.031
3.75	3.625	0.562	0.765	99.796
4.00	3.875	0.150	0.204	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5402	phi	(0.1719 mm)
Standard Dev:	0.4202	phi-units	(0.7473 mm)
Skewness:	-0.4026	dimensionless	
Kurtosis:	3.9391	dimensionless	
5th Moment:	-4.8714	dimensionless	
6th Moment:	30.8884	dimensionless	
RARD *	0.1654	dimensionless	
Median	2.4471	phi	(0.1834 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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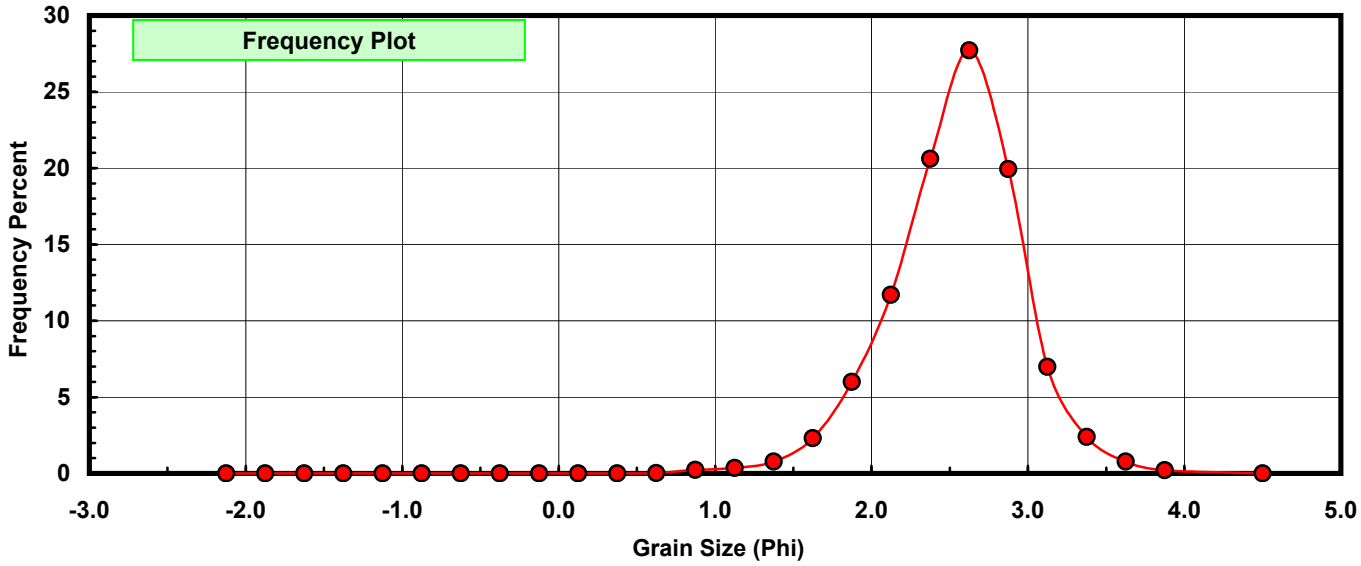

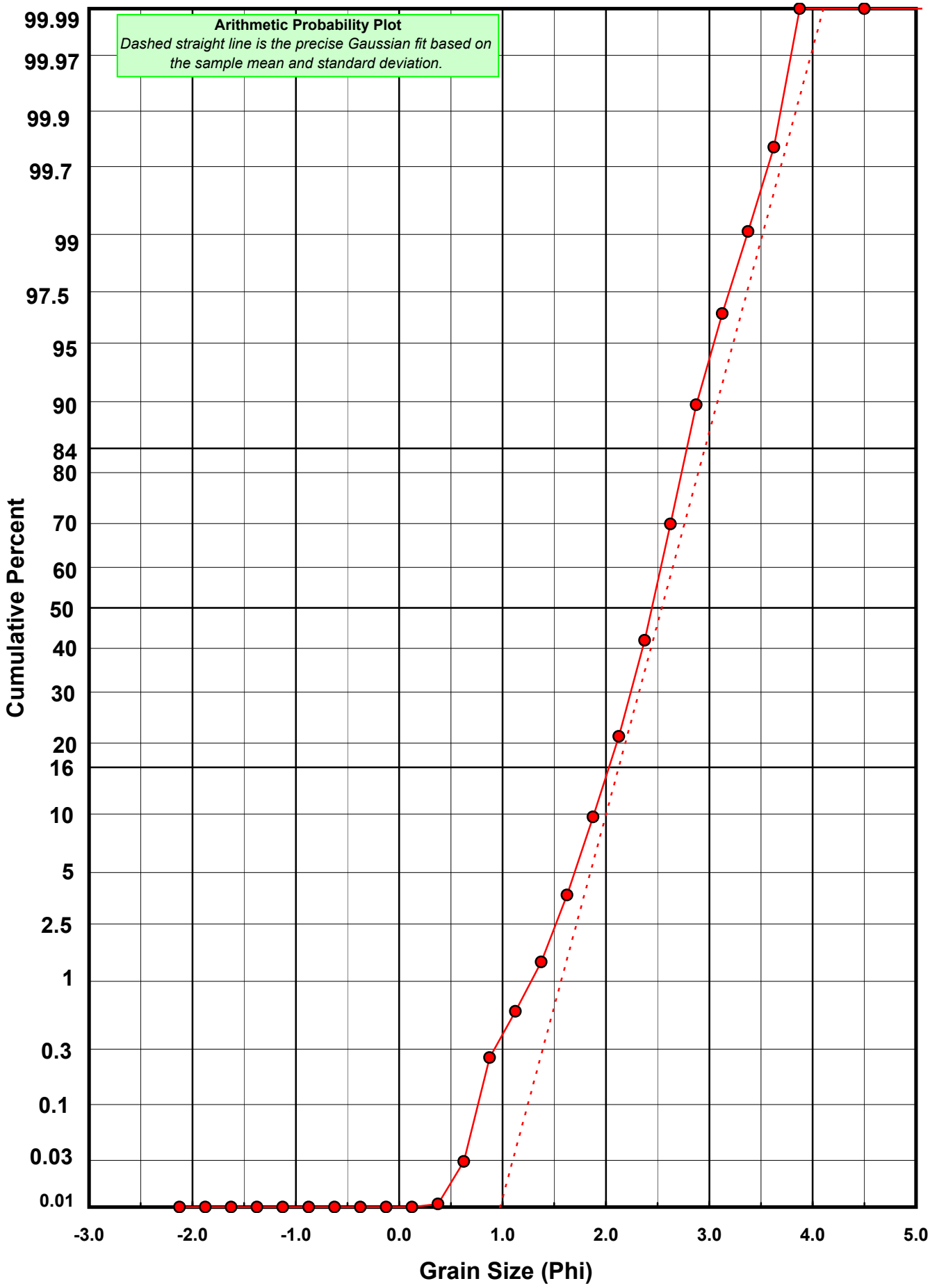
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Grain Size (Phi)