Onshore Grab Sample

Sample: SJ-33-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 48' 26.0"
Longitude: 81° 15' 39.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.703	grams
Total Fines in Sample	0.525	grams
Total Percent Fines	1.01	%

Dry Sieving Summary

Total Sample Weight	51.207	grams
Total Digested Weight	49.896	grams
Total Carbonate Weight	1.311	grams
Total Silica %	97.44	%
Total Carbonate %	2.56	%
Carbonate/Silica Ratio	0.026	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-33-MB

Total Sample Mass: 51.207 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	0.001	0.002	0.002
0.50	0.375	0.002	0.004	0.006
0.75	0.625	0.001	0.002	0.008
1.00	0.875	0.011	0.021	0.029
1.25	1.125	0.005	0.010	0.039
1.50	1.375	0.001	0.002	0.041
1.75	1.625	0.013	0.025	0.066
2.00	1.875	0.146	0.285	0.352
2.25	2.125	1.531	2.990	3.341
2.50	2.375	7.409	14.469	17.810
2.75	2.625	18.627	36.376	54.186
3.00	2.875	16.262	31.757	85.943
3.25	3.125	5.332	10.413	96.356
3.50	3.375	1.152	2.250	98.606
3.75	3.625	0.500	0.976	99.582
4.00	3.875	0.166	0.324	99.906
5.00	4.500	0.048	0.094	100.000

Statistical Results			
Mean:	2.7347	phi	(0.1502 mm)
Standard Dev:	0.2932	phi-units	(0.8161 mm)
Skewness:	0.4370	dimensionless	
Kurtosis:	5.7080	dimensionless	
5th Moment:	6.6061	dimensionless	
6th Moment:	114.0332	dimensionless	
RARD *	0.1072	dimensionless	
Median	2.5962	phi	(0.1654 mm)

* RARD = reciprocal absolute relative dispersion (see below)

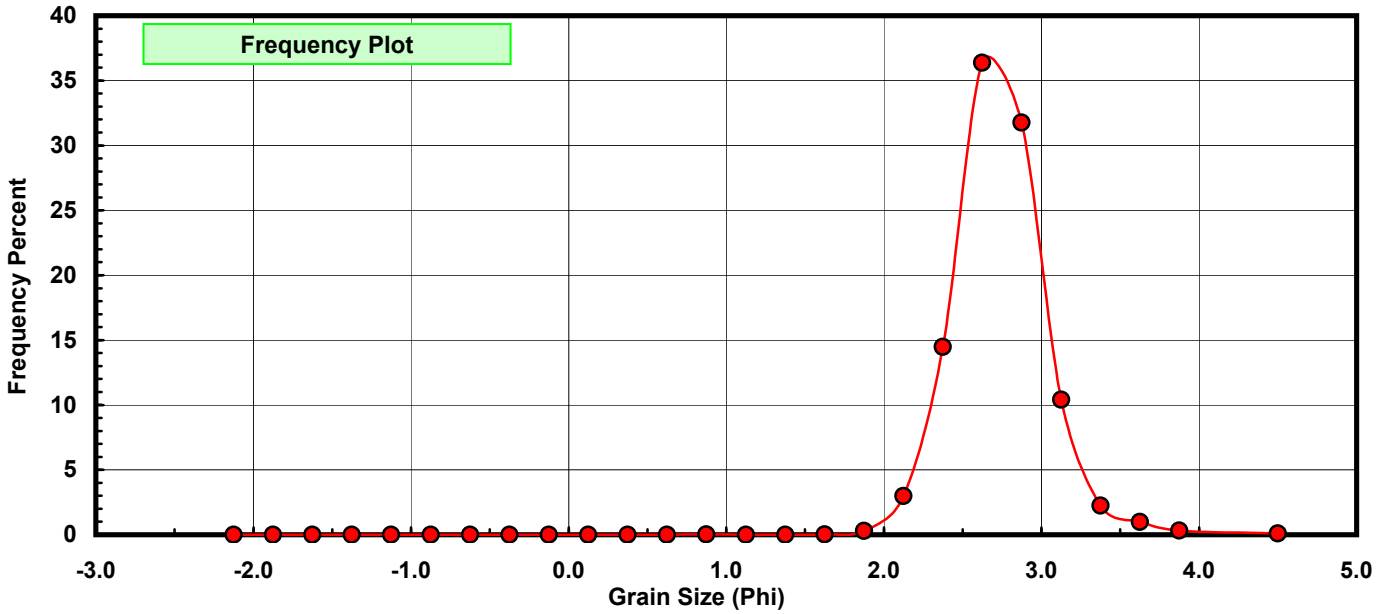
Statistical Explanation

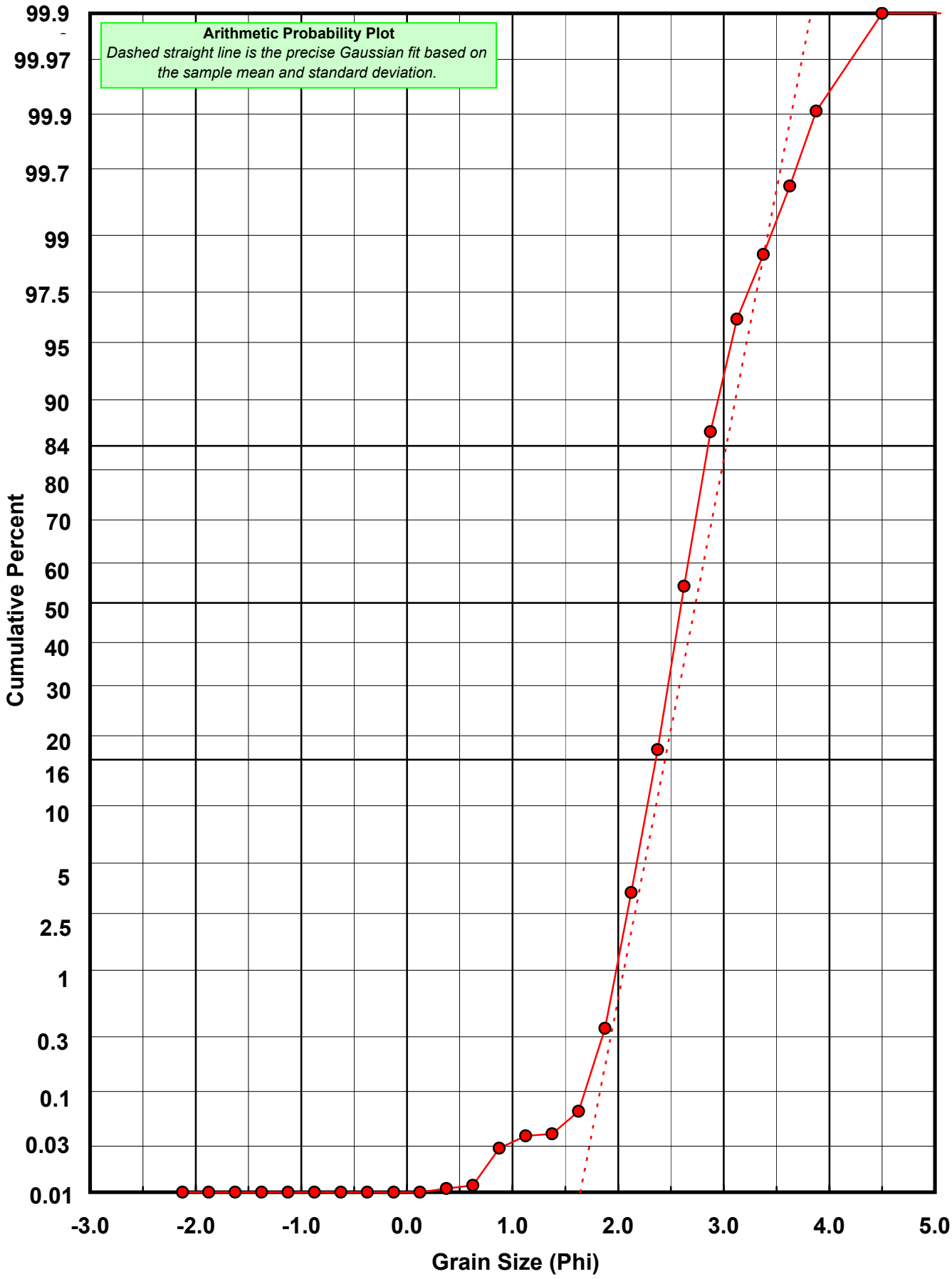
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-33-MB

Total Carbonate Mass: 2.391 grams

% Carbonate: 2.6 %

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	0.001	0.042	0.042
0.50	0.375	0.002	0.084	0.125
0.75	0.625	0.000	0.000	0.125
1.00	0.875	0.007	0.293	0.418
1.25	1.125	0.000	0.000	0.418
1.50	1.375	0.000	0.000	0.418
1.75	1.625	0.003	0.125	0.544
2.00	1.875	0.016	0.669	1.213
2.25	2.125	0.253	10.581	11.794
2.50	2.375	0.000	0.000	11.794
2.75	2.625	0.000	0.000	11.794
3.00	2.875	0.688	28.775	40.569
3.25	3.125	0.805	33.668	74.237
3.50	3.375	0.389	16.269	90.506
3.75	3.625	0.193	8.072	98.578
4.00	3.875	0.034	1.422	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	3.0186	phi	(0.1234 mm)
Standard Dev:	0.4347	phi-units	(0.7398 mm)
Skewness:	-1.3321	dimensionless	
Kurtosis:	6.6337	dimensionless	
5th Moment:	-25.1884	dimensionless	
6th Moment:	133.7353	dimensionless	
RARD *	0.1440	dimensionless	
Median	2.9450	phi	(0.1299 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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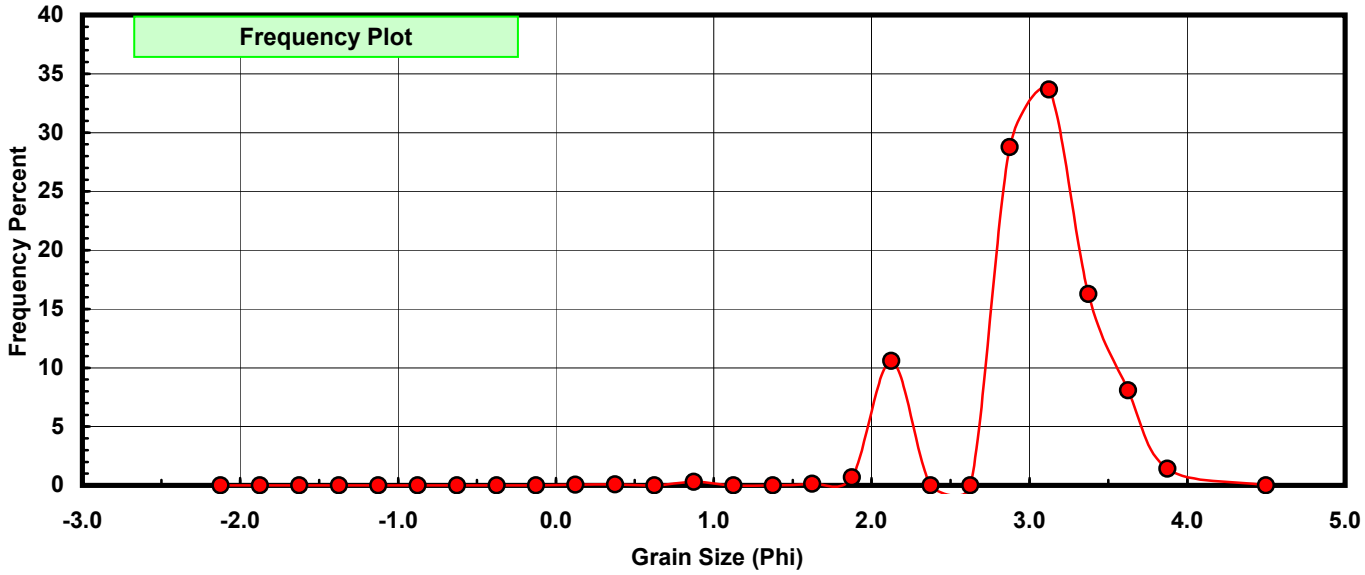
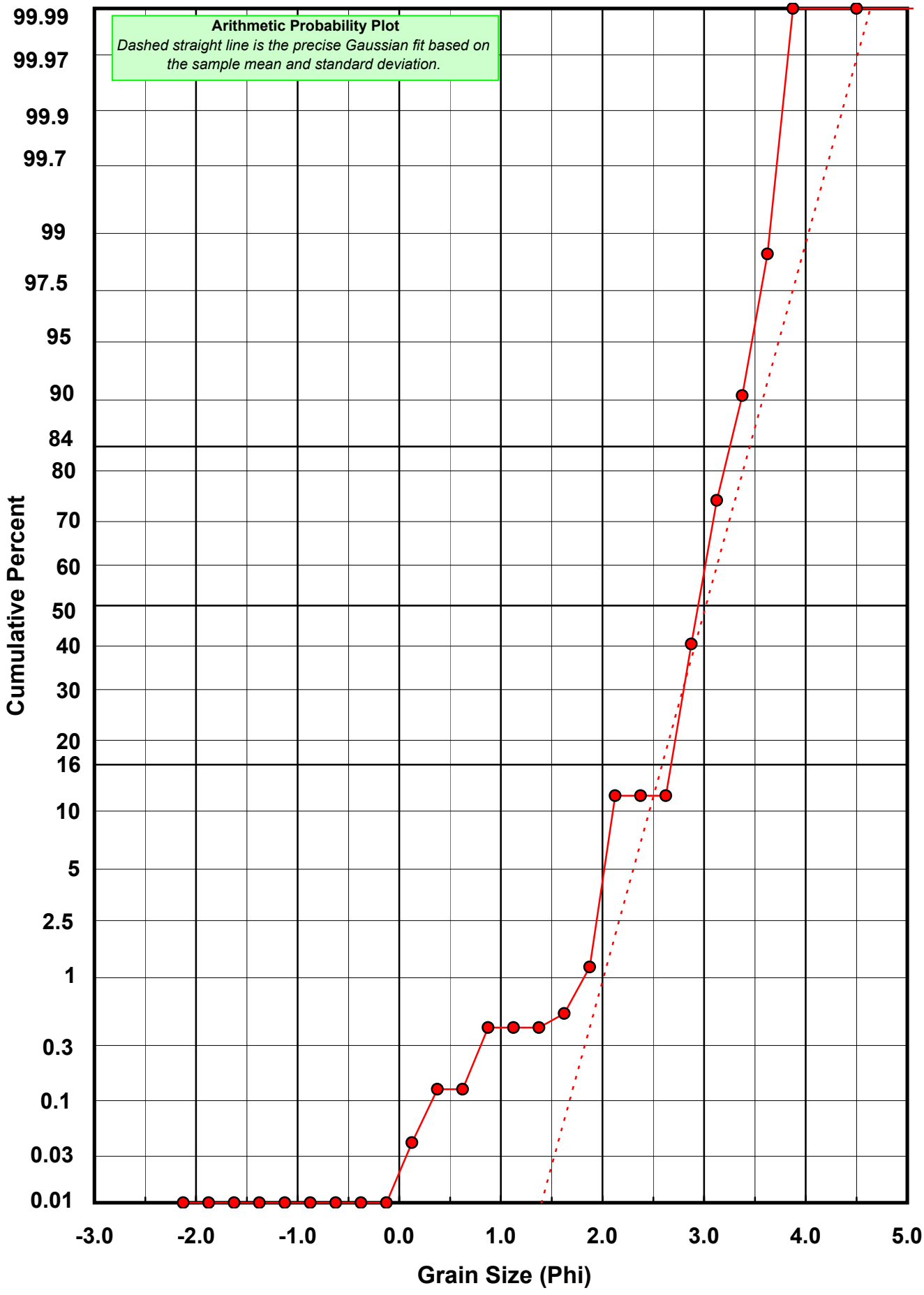
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)




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-33-MB

Total Digested Mass: 49.855 grams

% Silica: 97.4 %

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	0.008	0.016	0.016
-0.25	-0.375	0.000	0.000	0.016
0.00	-0.125	0.000	0.000	0.016
0.25	0.125	0.000	0.000	0.016
0.50	0.375	0.000	0.000	0.016
0.75	0.625	0.002	0.004	0.020
1.00	0.875	0.004	0.008	0.028
1.25	1.125	0.008	0.016	0.044
1.50	1.375	0.002	0.004	0.048
1.75	1.625	0.010	0.020	0.068
2.00	1.875	0.130	0.261	0.329
2.25	2.125	1.278	2.563	2.892
2.50	2.375	7.665	15.375	18.267
2.75	2.625	19.445	39.003	57.270
3.00	2.875	15.574	31.239	88.509
3.25	3.125	4.527	9.080	97.589
3.50	3.375	0.763	1.530	99.119
3.75	3.625	0.307	0.616	99.735
4.00	3.875	0.132	0.265	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7150	phi	(0.1523 mm)
Standard Dev:	0.2734	phi-units	(0.8274 mm)
Skewness:	-0.0136	dimensionless	
Kurtosis:	8.0876	dimensionless	
5th Moment:	-42.3165	dimensionless	
6th Moment:	602.0153	dimensionless	
RARD *	0.1007	dimensionless	
Median	2.5784	phi	(0.1674 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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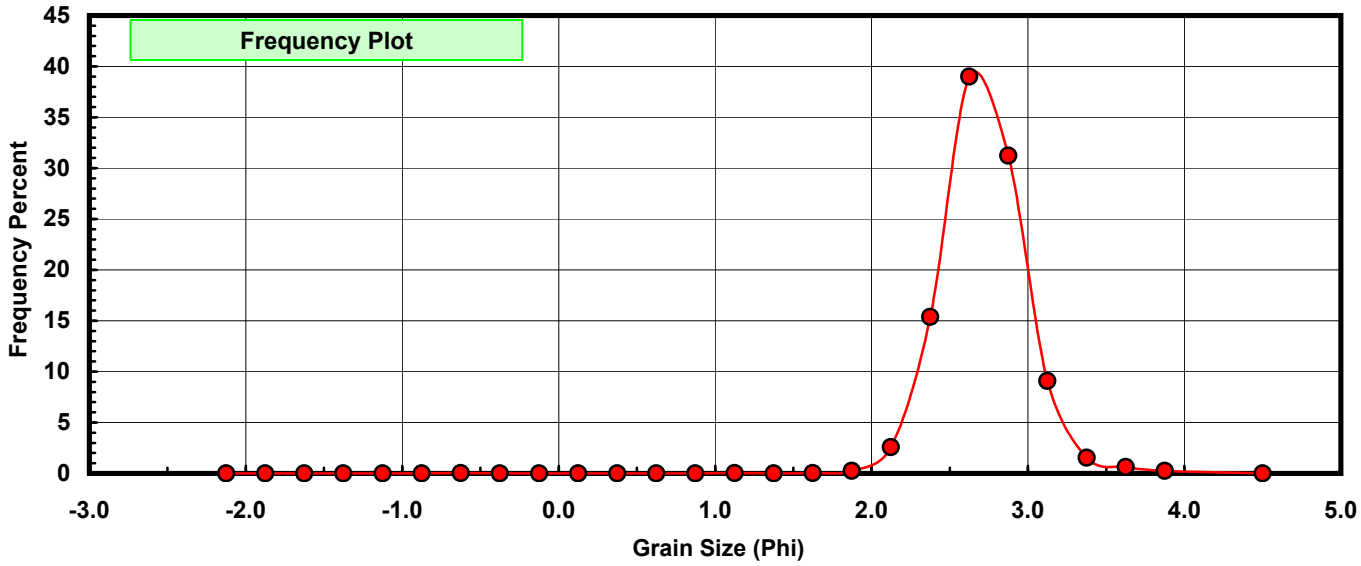

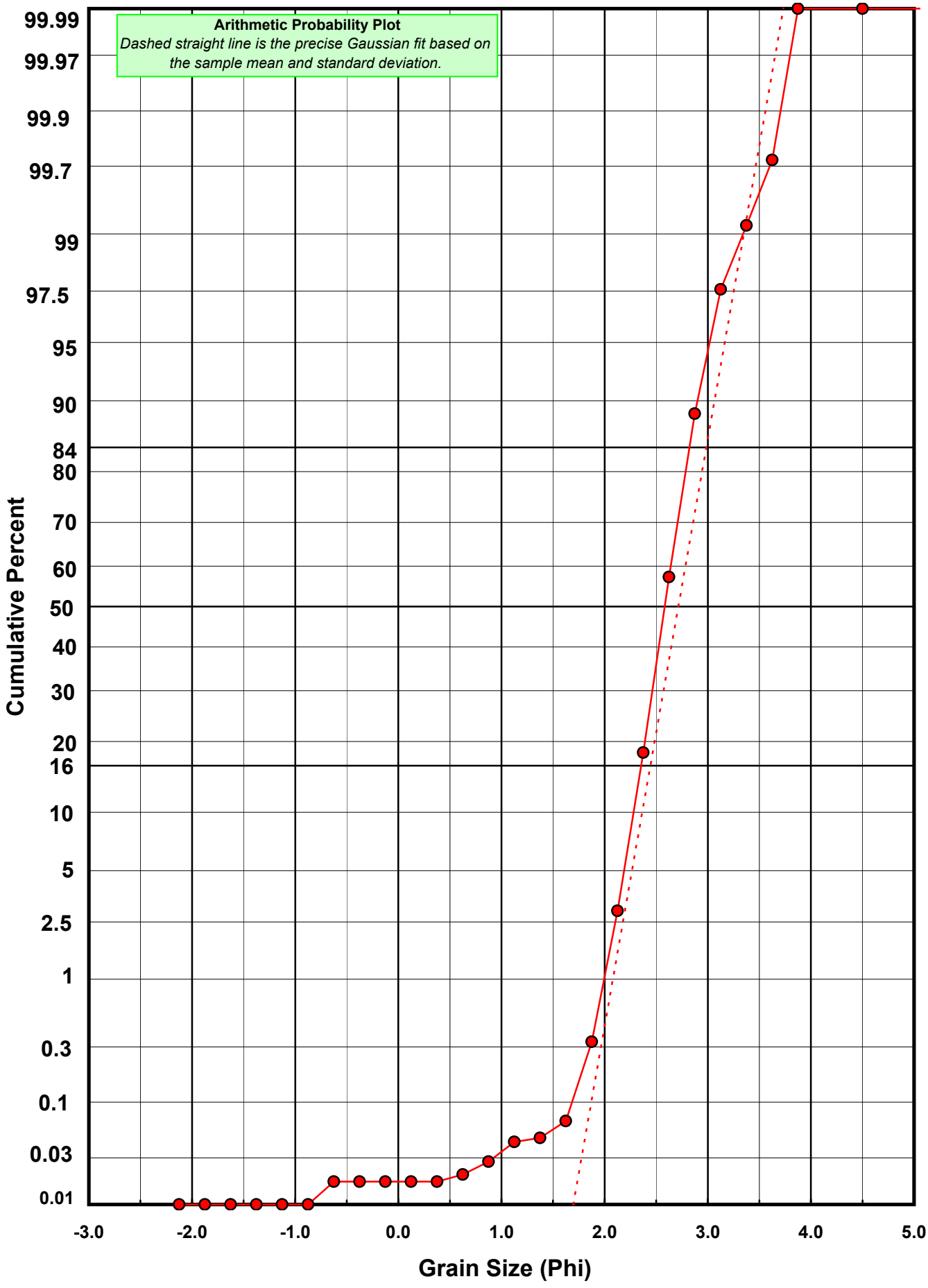
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-2.0
-1.0
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Grain Size (Phi)