Onshore Grab Sample

Sample: SJ-39-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 43' 38.1"
Longitude: 81° 14' 7.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	66.913	grams
Total Fines in Sample	0.769	grams
Total Percent Fines	1.14	%

Dry Sieving Summary

Total Sample Weight	66.005	grams
Total Digested Weight	65.306	grams
Total Carbonate Weight	0.699	grams
Total Silica %	98.94	%
Total Carbonate %	1.06	%
Carbonate/Silica Ratio	0.011	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-39-MB

Total Sample Mass: 66.005 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	0.000	0.000	0.000
0.50	0.375	0.003	0.005	0.005
0.75	0.625	0.001	0.002	0.006
1.00	0.875	0.001	0.002	0.008
1.25	1.125	0.003	0.005	0.012
1.50	1.375	0.001	0.002	0.014
1.75	1.625	0.001	0.002	0.015
2.00	1.875	0.092	0.139	0.155
2.25	2.125	1.136	1.721	1.876
2.50	2.375	7.323	11.095	12.970
2.75	2.625	22.884	34.670	47.640
3.00	2.875	23.646	35.825	83.465
3.25	3.125	9.412	14.260	97.724
3.50	3.375	1.292	1.957	99.682
3.75	3.625	0.178	0.270	99.952
4.00	3.875	0.029	0.044	99.995
5.00	4.500	0.003	0.005	100.000

Statistical Results			
Mean:	2.7662	phi	(0.147 mm)
Standard Dev:	0.2572	phi-units	(0.8367 mm)
Skewness:	-0.0164	dimensionless	
Kurtosis:	3.8471	dimensionless	
5th Moment:	-3.3735	dimensionless	
6th Moment:	64.5823	dimensionless	
RARD *	0.0930	dimensionless	
Median	2.6415	phi	(0.1603 mm)

* RARD = reciprocal absolute relative dispersion (see below)

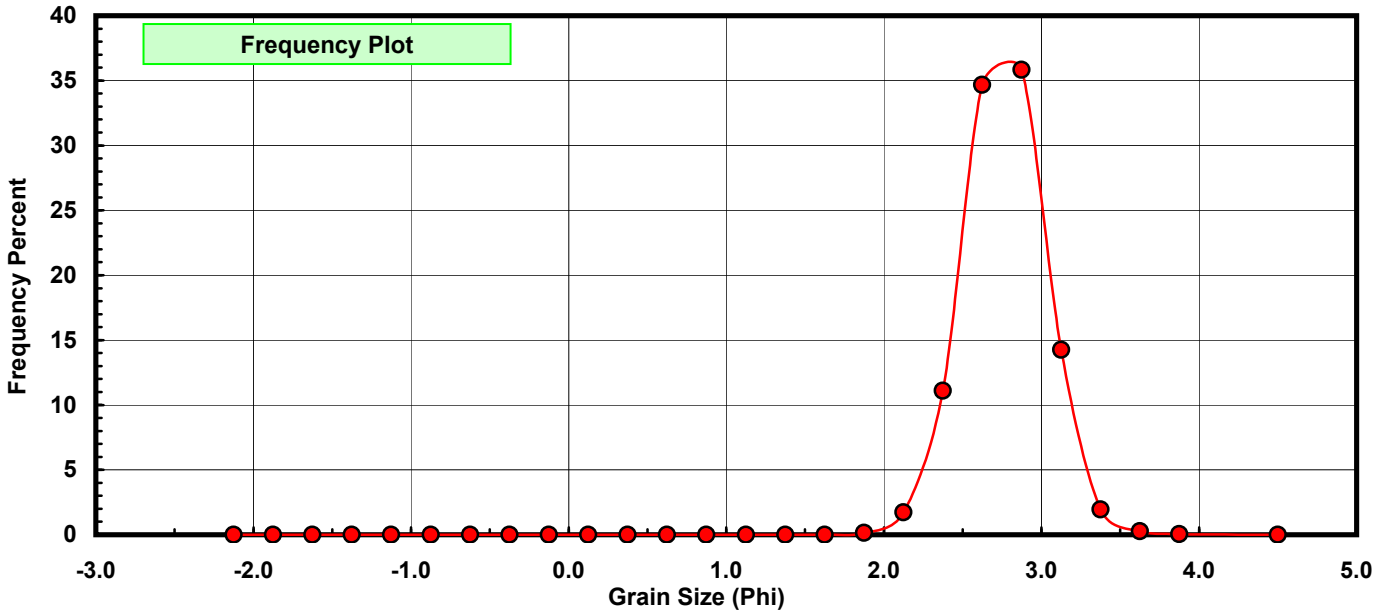
Statistical Explanation

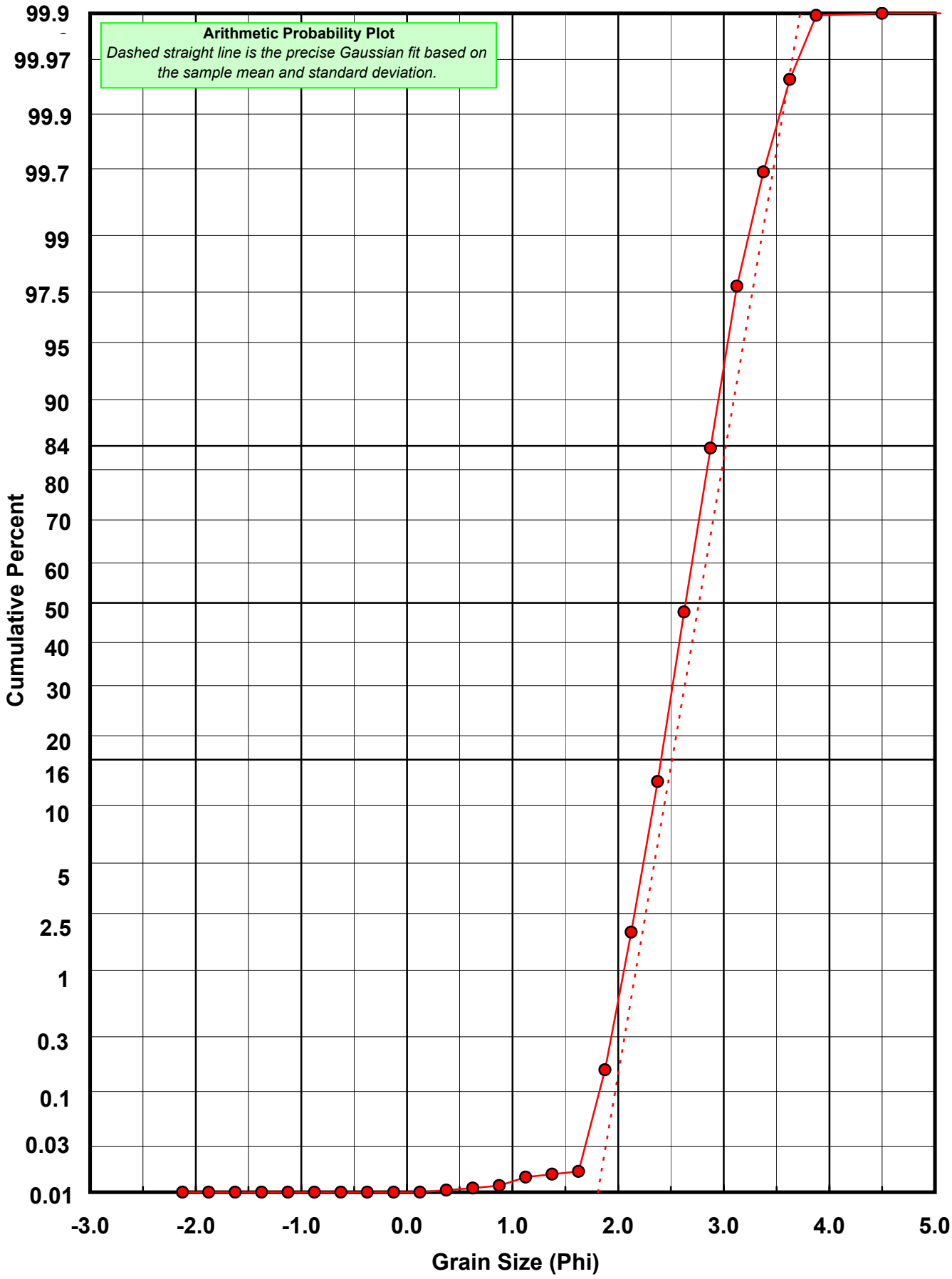
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-39-MB

Total Carbonate Mass: 2.239 grams

% Carbonate: 1.1 %

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	0.003	0.134	0.134
0.75	0.625	0.001	0.045	0.179
1.00	0.875	0.000	0.000	0.179
1.25	1.125	0.000	0.000	0.179
1.50	1.375	0.000	0.000	0.179
1.75	1.625	0.000	0.000	0.179
2.00	1.875	0.025	1.117	1.295
2.25	2.125	0.231	10.317	11.612
2.50	2.375	0.387	17.285	28.897
2.75	2.625	0.459	20.500	49.397
3.00	2.875	0.000	0.000	49.397
3.25	3.125	0.934	41.715	91.112
3.50	3.375	0.182	8.129	99.241
3.75	3.625	0.017	0.759	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:	2.7951	phi	(0.1441 mm)
Standard Dev:	0.4244	phi-units	(0.7451 mm)
Skewness:	-0.5484	dimensionless	
Kurtosis:	3.3271	dimensionless	
5th Moment:	-10.6270	dimensionless	
6th Moment:	57.9972	dimensionless	
RARD *	0.1518	dimensionless	
Median	2.8786	phi	(0.136 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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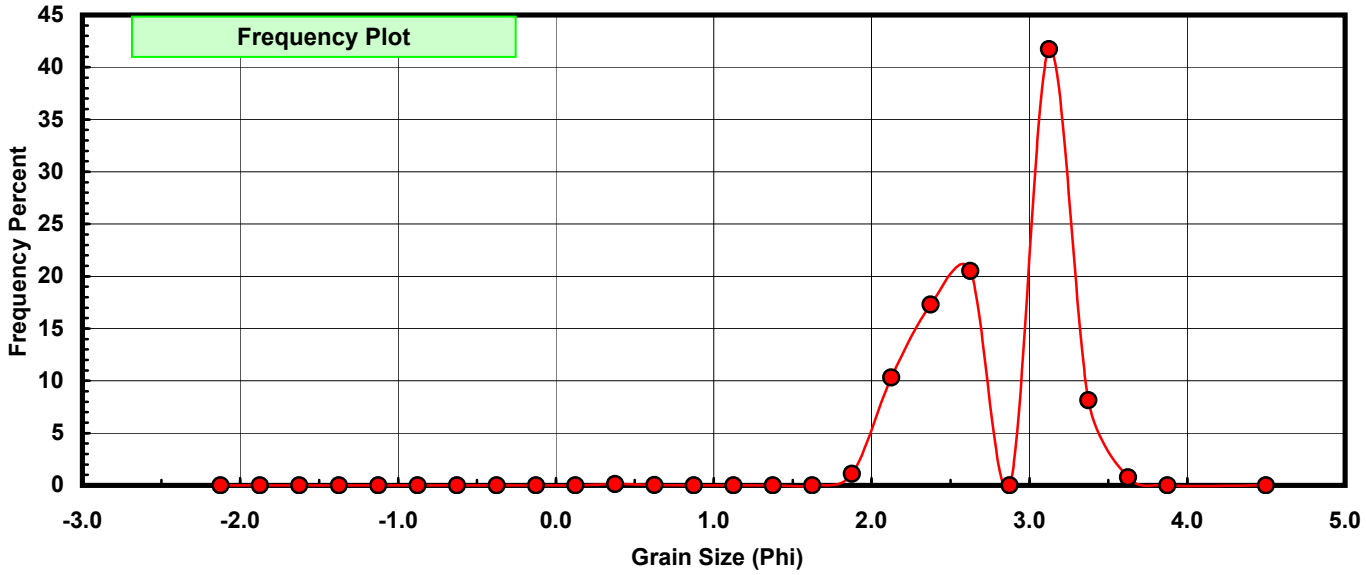

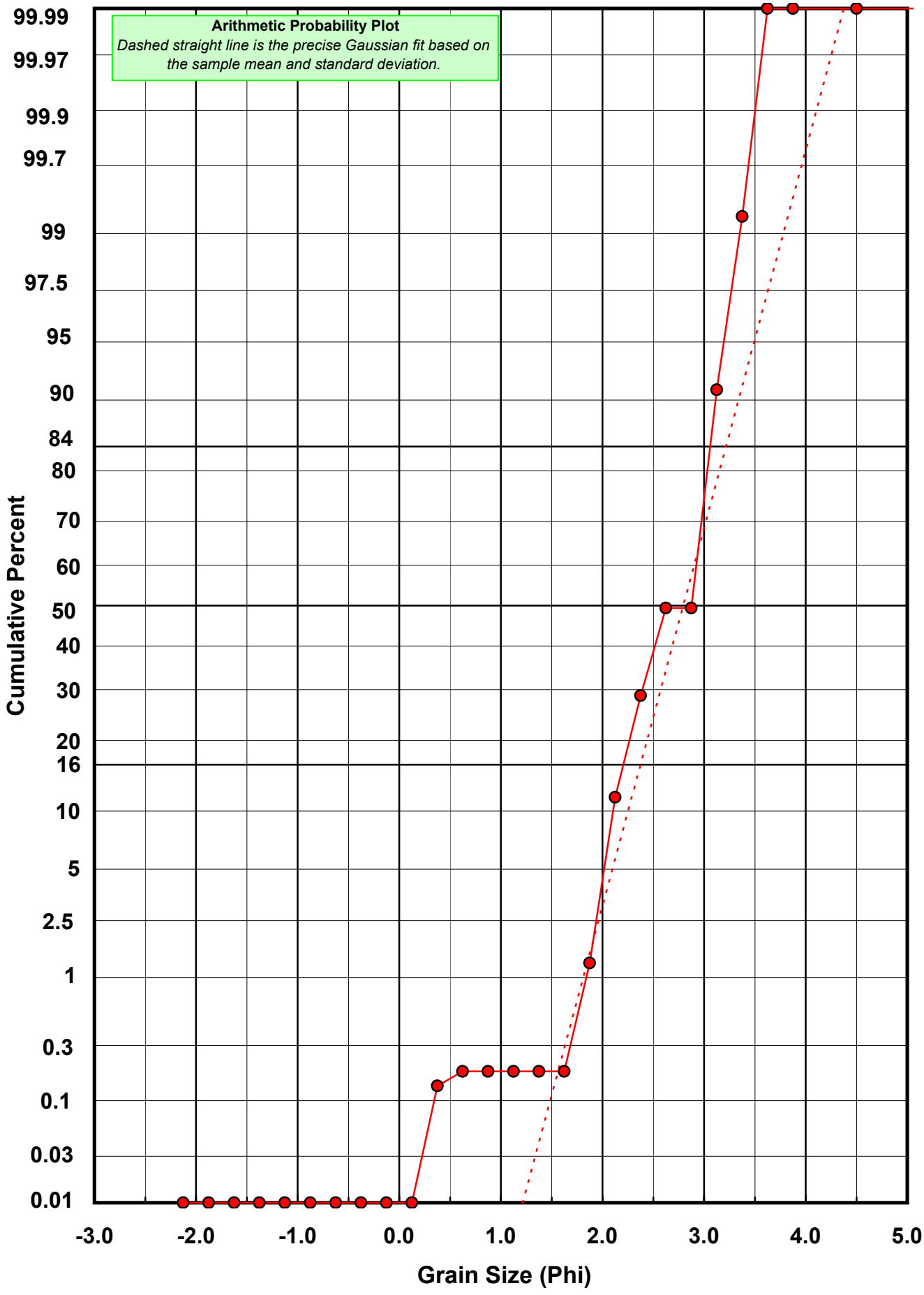
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-39-MB

Total Digested Mass: 65.297 grams

% Silica: 98.9 %

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	0.000	0.000	0.000
1.00	0.875	0.005	0.008	0.008
1.25	1.125	0.003	0.005	0.012
1.50	1.375	0.001	0.002	0.014
1.75	1.625	0.005	0.008	0.021
2.00	1.875	0.067	0.103	0.124
2.25	2.125	0.905	1.386	1.510
2.50	2.375	6.936	10.622	12.132
2.75	2.625	22.425	34.343	46.475
3.00	2.875	25.160	38.532	85.007
3.25	3.125	8.478	12.984	97.991
3.50	3.375	1.110	1.700	99.691
3.75	3.625	0.161	0.247	99.937
4.00	3.875	0.041	0.063	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7677	phi	(0.1468 mm)
Standard Dev:	0.2475	phi-units	(0.8424 mm)
Skewness:	-0.0071	dimensionless	
Kurtosis:	3.7756	dimensionless	
5th Moment:	-1.5310	dimensionless	
6th Moment:	43.5569	dimensionless	
RARD *	0.0894	dimensionless	
Median	2.6479	phi	(0.1596 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
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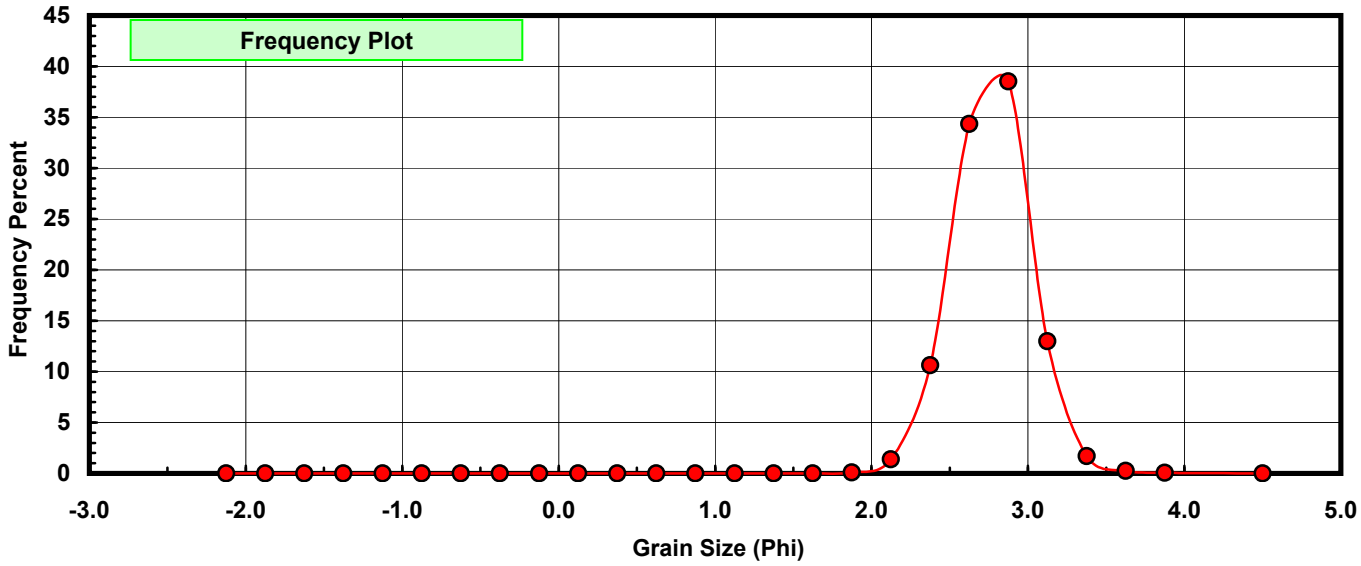

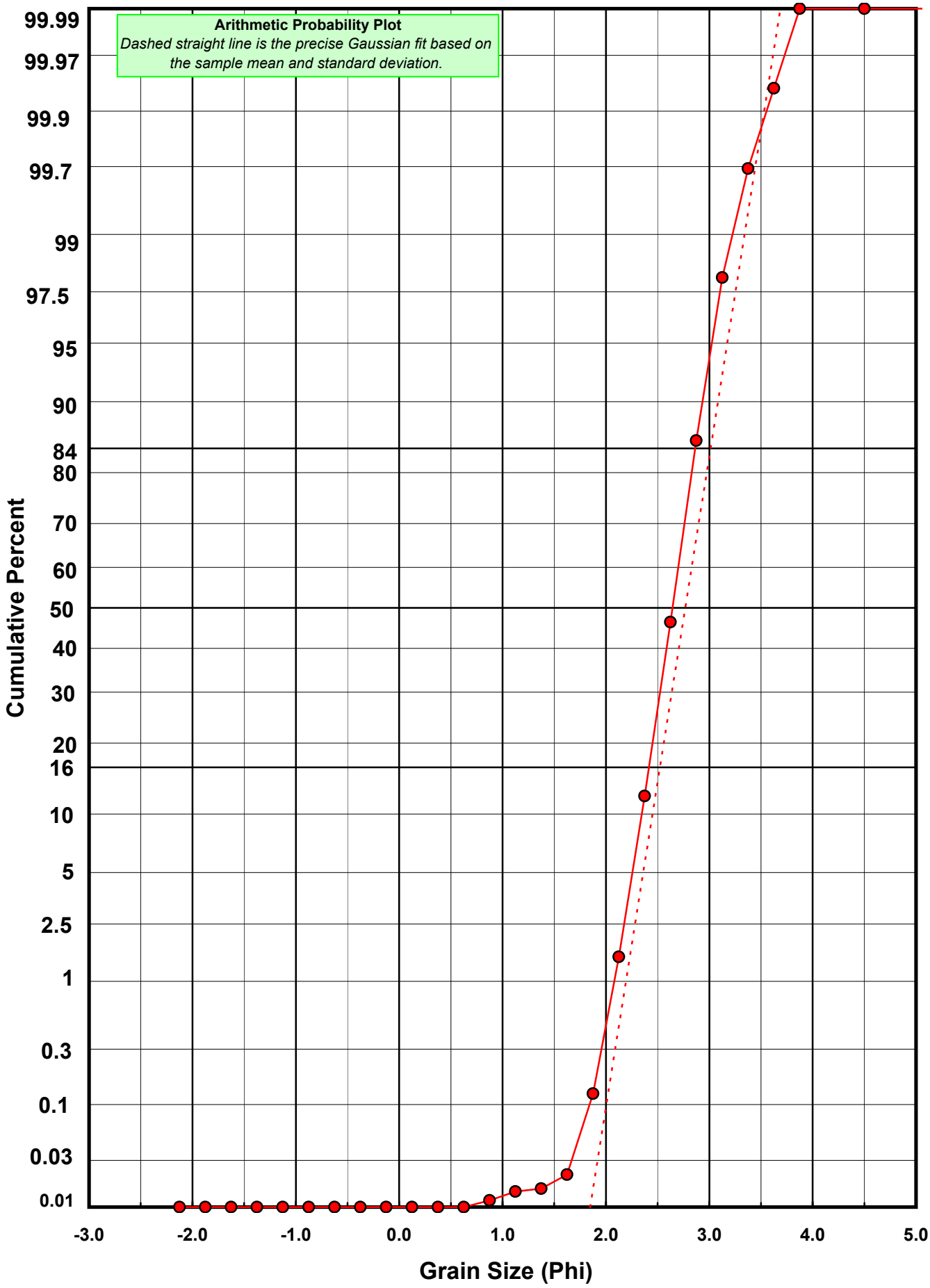
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-1.0
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Grain Size (Phi)