Onshore Grab Sample

Sample: SJ-32-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 49' 17.0"
Longitude: 81° 15' 46.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	48.913	grams
Total Fines in Sample	0.287	grams
Total Percent Fines	0.58	%

Dry Sieving Summary

Total Sample Weight	48.646	grams
Total Digested Weight	47.284	grams
Total Carbonate Weight	1.362	grams
Total Silica %	97.20	%
Total Carbonate %	2.80	%
Carbonate/Silica Ratio	0.029	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-32-MB

Total Sample Mass: 48.646 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	0.004	0.008	0.008
0.50	0.375	0.005	0.010	0.019
0.75	0.625	0.005	0.010	0.029
1.00	0.875	0.007	0.014	0.043
1.25	1.125	0.005	0.010	0.053
1.50	1.375	0.001	0.002	0.056
1.75	1.625	0.002	0.004	0.060
2.00	1.875	0.044	0.090	0.150
2.25	2.125	0.489	1.005	1.155
2.50	2.375	4.392	9.028	10.184
2.75	2.625	15.997	32.885	43.068
3.00	2.875	17.996	36.994	80.062
3.25	3.125	7.181	14.762	94.824
3.50	3.375	1.611	3.312	98.136
3.75	3.625	0.650	1.336	99.472
4.00	3.875	0.199	0.409	99.881
5.00	4.500	0.058	0.119	100.000

Statistical Results			
Mean:	2.8075	phi	(0.1428 mm)
Standard Dev:	0.2861	phi-units	(0.8201 mm)
Skewness:	0.4332	dimensionless	
Kurtosis:	6.9471	dimensionless	
5th Moment:	-2.5365	dimensionless	
6th Moment:	213.5623	dimensionless	
RARD *	0.1019	dimensionless	
Median	2.6718	phi	(0.1569 mm)

* RARD = reciprocal absolute relative dispersion (see below)

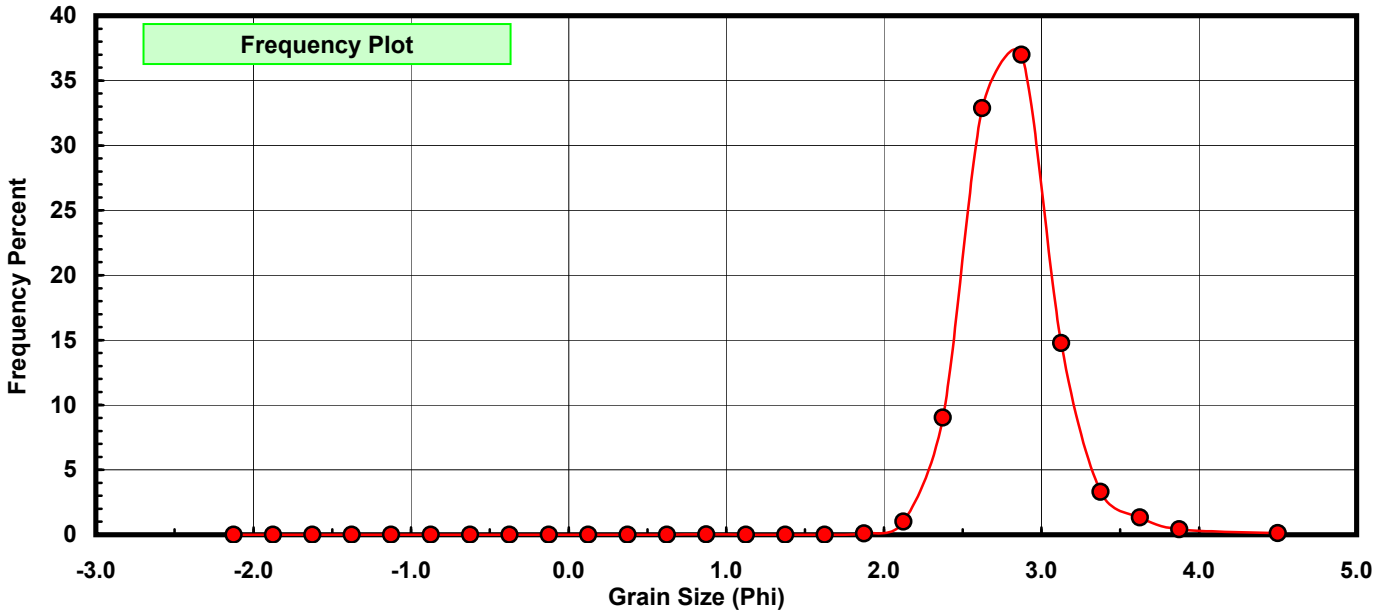
Statistical Explanation

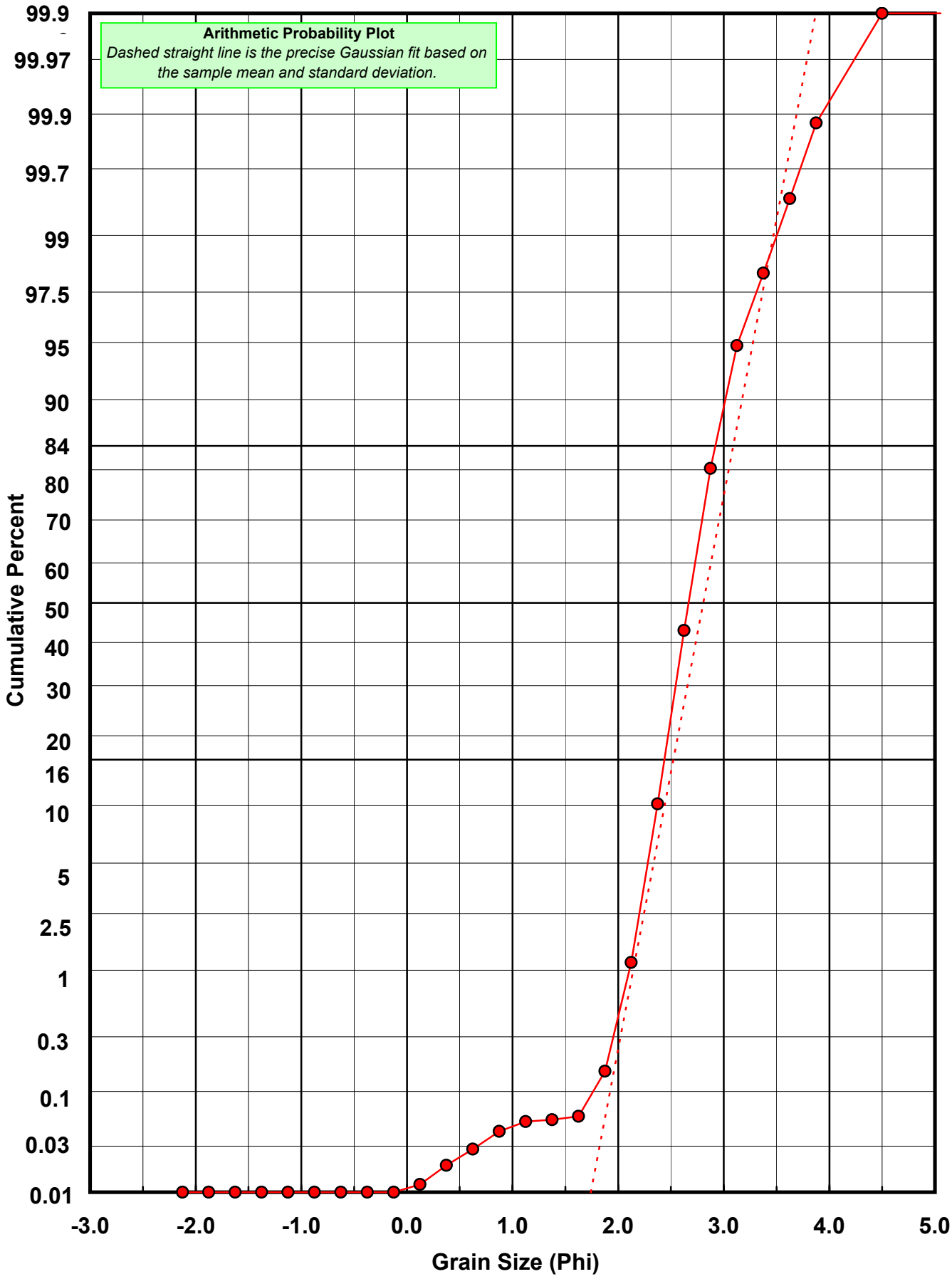
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-32-MB

Total Carbonate Mass: 4.948 grams

% Carbonate: 2.8 %

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	0.004	0.081	0.081
0.50	0.375	0.000	0.000	0.081
0.75	0.625	0.004	0.081	0.162
1.00	0.875	0.000	0.000	0.162
1.25	1.125	0.000	0.000	0.162
1.50	1.375	0.000	0.000	0.162
1.75	1.625	0.000	0.000	0.162
2.00	1.875	0.003	0.061	0.222
2.25	2.125	0.000	0.000	0.222
2.50	2.375	0.000	0.000	0.222
2.75	2.625	0.000	0.000	0.222
3.00	2.875	2.678	54.123	54.345
3.25	3.125	1.150	23.242	77.587
3.50	3.375	0.660	13.339	90.926
3.75	3.625	0.378	7.639	98.565
4.00	3.875	0.071	1.435	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	3.0668	phi	(0.1193 mm)
Standard Dev:	0.2815	phi-units	(0.8228 mm)
Skewness:	-0.5553	dimensionless	
Kurtosis:	16.8873	dimensionless	
5th Moment:	-136.1049	dimensionless	
6th Moment:	1414.9559	dimensionless	
RARD *	0.0918	dimensionless	
Median	2.8549	phi	(0.1382 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	
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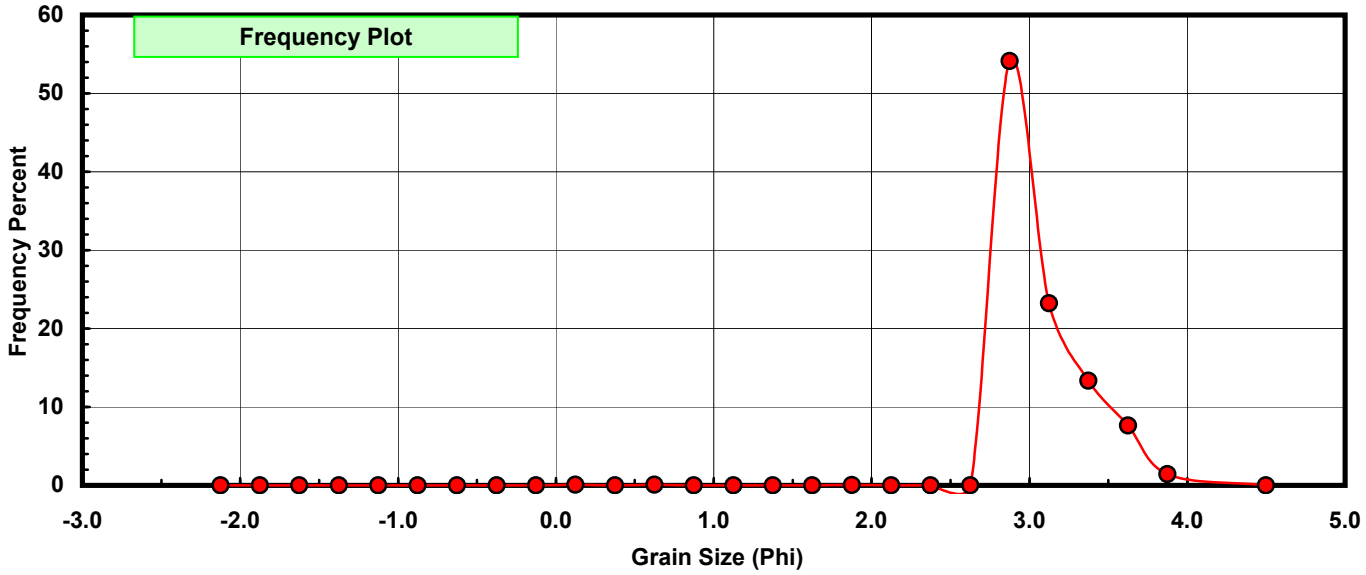

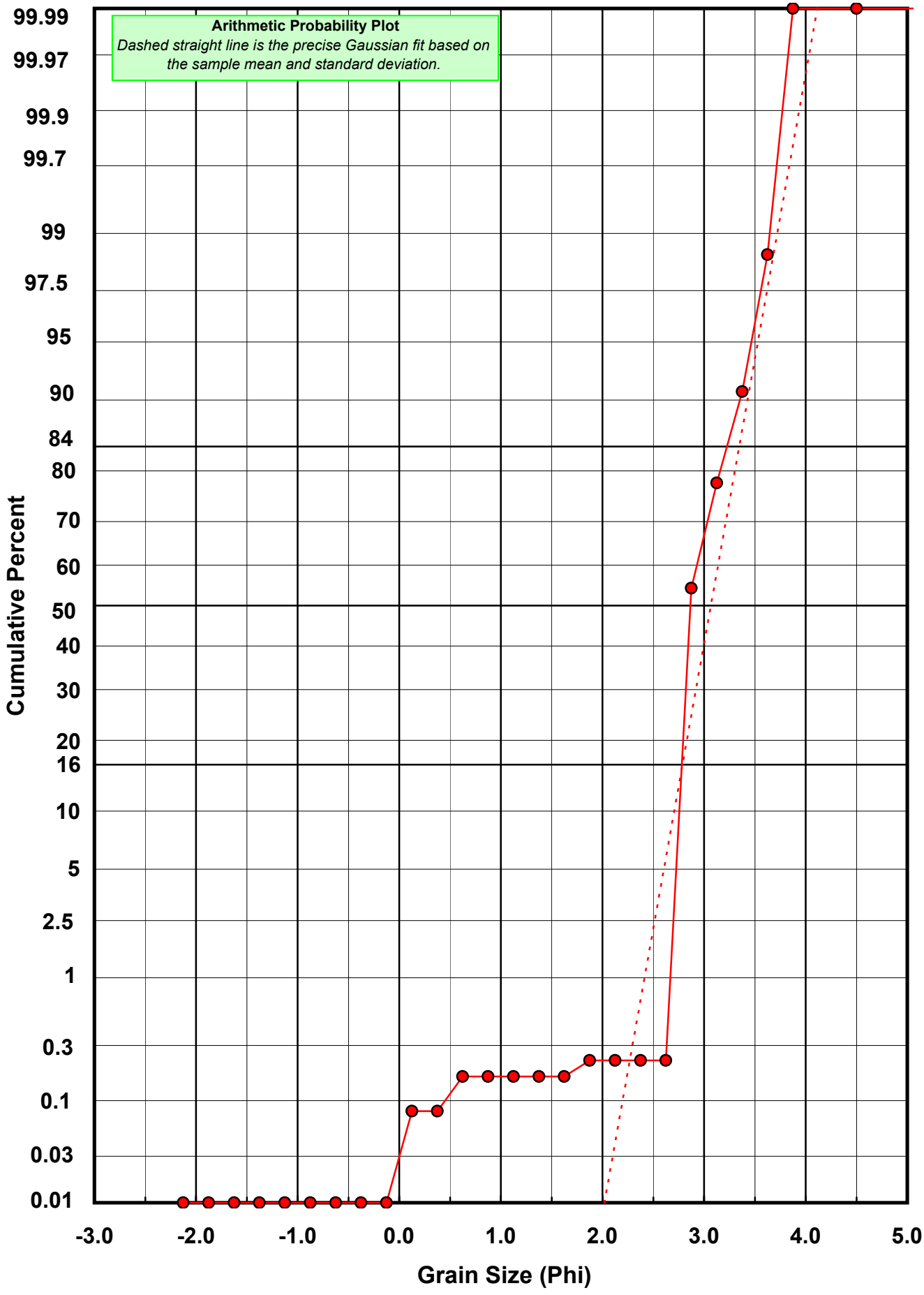
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-32-MB

Total Digested Mass: 47.247 grams

% Silica: 97.2 %

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	0.005	0.011	0.011
0.75	0.625	0.001	0.002	0.013
1.00	0.875	0.008	0.017	0.030
1.25	1.125	0.007	0.015	0.044
1.50	1.375	0.002	0.004	0.049
1.75	1.625	0.005	0.011	0.059
2.00	1.875	0.041	0.087	0.146
2.25	2.125	0.501	1.060	1.206
2.50	2.375	5.254	11.120	12.327
2.75	2.625	18.723	39.628	51.955
3.00	2.875	15.318	32.421	84.376
3.25	3.125	6.031	12.765	97.141
3.50	3.375	0.951	2.013	99.153
3.75	3.625	0.272	0.576	99.729
4.00	3.875	0.128	0.271	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7594	phi	(0.1477 mm)
Standard Dev:	0.2619	phi-units	(0.834 mm)
Skewness:	0.2647	dimensionless	
Kurtosis:	5.3925	dimensionless	
5th Moment:	-6.3559	dimensionless	
6th Moment:	135.6836	dimensionless	
RARD *	0.0949	dimensionless	
Median	2.6127	phi	(0.1635 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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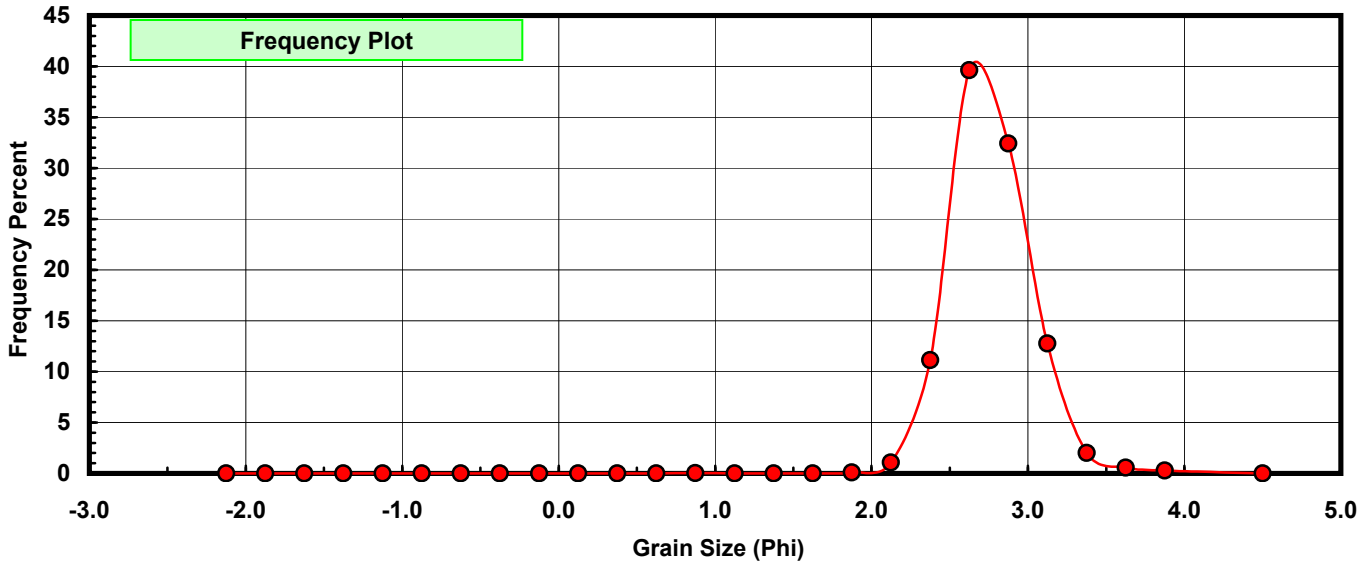

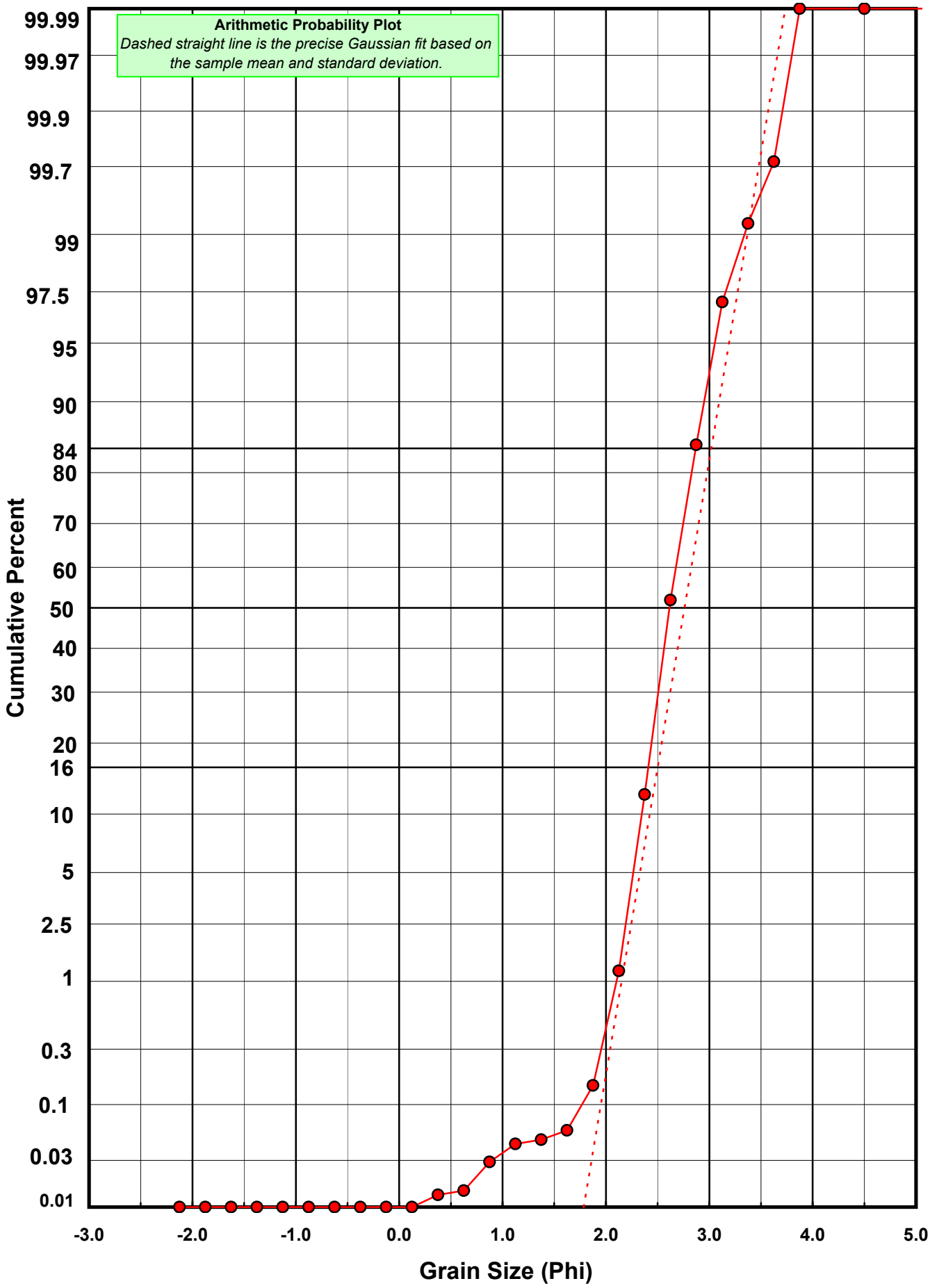
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-2.0
-1.0
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1.0
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Grain Size (Phi)