Onshore Grab Sample

Sample: SJ-36-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 45' 59.7"
Longitude: 81° 15' 1.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	62.234	grams
Total Fines in Sample	1.006	grams
Total Percent Fines	1.59	%

Dry Sieving Summary

Total Sample Weight	61.145	grams
Total Digested Weight	59.910	grams
Total Carbonate Weight	1.235	grams
Total Silica %	97.98	%
Total Carbonate %	2.02	%
Carbonate/Silica Ratio	0.021	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-36-SS

Total Sample Mass: 61.145 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	0.005	0.008	0.008
-0.50	-0.625	0.006	0.010	0.018
-0.25	-0.375	0.001	0.002	0.020
0.00	-0.125	0.011	0.018	0.038
0.25	0.125	0.026	0.043	0.080
0.50	0.375	0.040	0.065	0.146
0.75	0.625	0.037	0.061	0.206
1.00	0.875	0.083	0.136	0.342
1.25	1.125	0.124	0.203	0.545
1.50	1.375	0.267	0.437	0.981
1.75	1.625	0.598	0.978	1.959
2.00	1.875	2.162	3.536	5.495
2.25	2.125	5.738	9.384	14.879
2.50	2.375	13.151	21.508	36.387
2.75	2.625	19.487	31.870	68.257
3.00	2.875	13.856	22.661	90.918
3.25	3.125	4.546	7.435	98.353
3.50	3.375	0.810	1.325	99.678
3.75	3.625	0.156	0.255	99.933
4.00	3.875	0.033	0.054	99.987
5.00	4.500	0.008	0.013	100.000

Statistical Results			
Mean:	2.5795	phi	(0.1673 mm)
Standard Dev:	0.3719	phi-units	(0.7728 mm)
Skewness:	-1.0055	dimensionless	
Kurtosis:	7.6262	dimensionless	
5th Moment:	-33.5848	dimensionless	
6th Moment:	240.0531	dimensionless	
RARD *	0.1442	dimensionless	
Median	2.4818	phi	(0.179 mm)

* RARD = reciprocal absolute relative dispersion (see below)

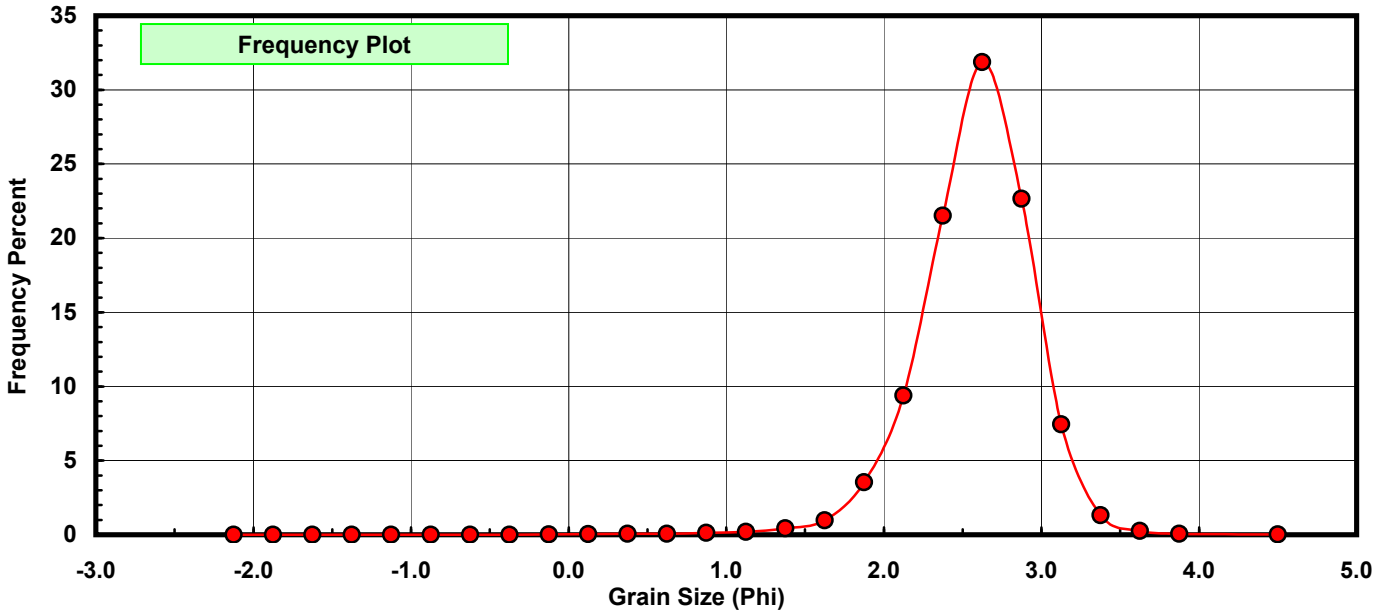
Statistical Explanation

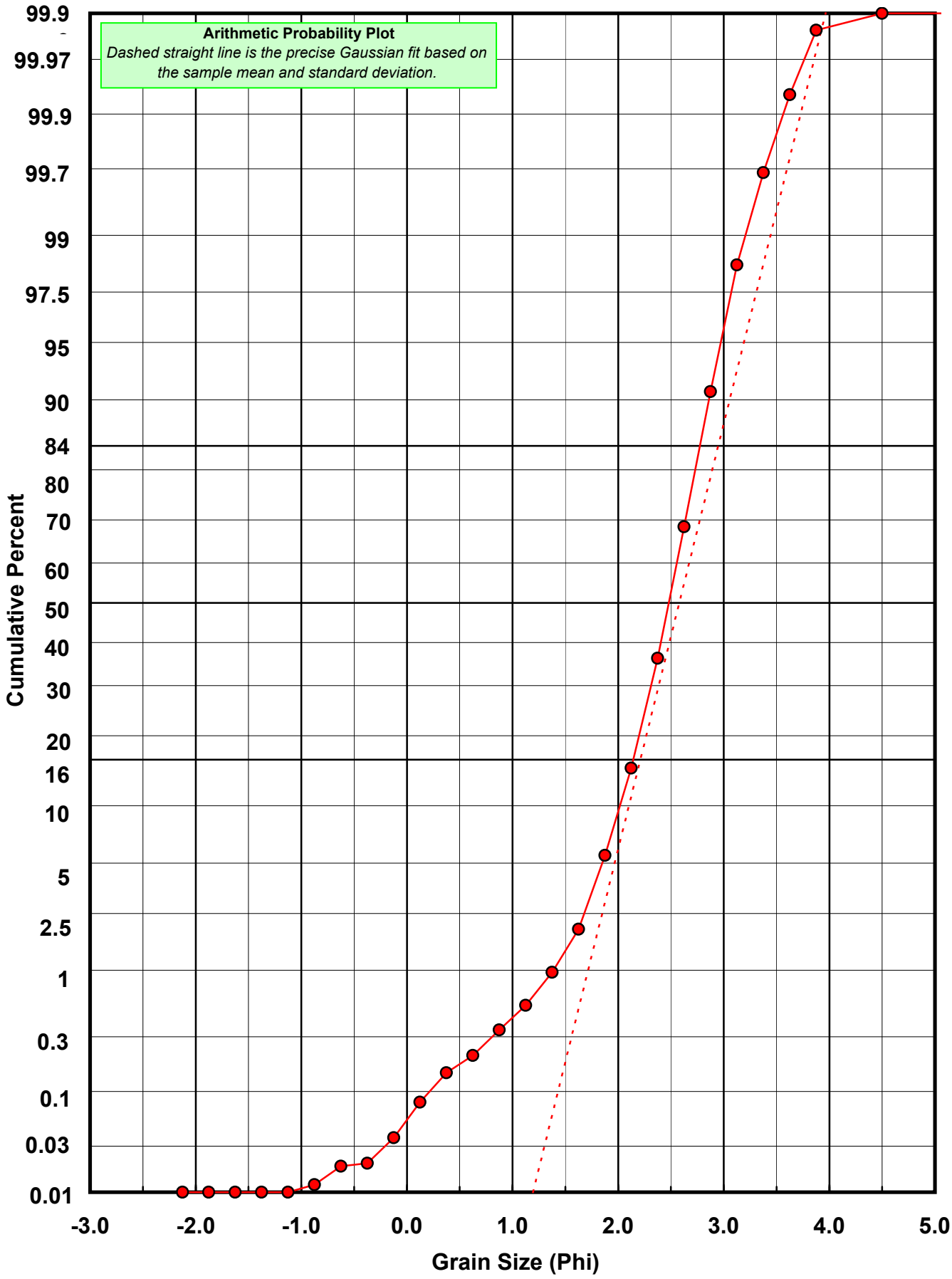
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-36-SS

Total Carbonate Mass: 1.795 grams

% Carbonate: 2.0 %

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	0.005	0.279	0.279
-0.50	-0.625	0.006	0.334	0.613
-0.25	-0.375	0.001	0.056	0.669
0.00	-0.125	0.011	0.613	1.281
0.25	0.125	0.026	1.448	2.730
0.50	0.375	0.036	2.006	4.735
0.75	0.625	0.031	1.727	6.462
1.00	0.875	0.064	3.565	10.028
1.25	1.125	0.073	4.067	14.095
1.50	1.375	0.137	7.632	21.727
1.75	1.625	0.176	9.805	31.532
2.00	1.875	0.201	11.198	42.730
2.25	2.125	0.000	0.000	42.730
2.50	2.375	0.191	10.641	53.370
2.75	2.625	0.000	0.000	53.370
3.00	2.875	0.000	0.000	53.370
3.25	3.125	0.673	37.493	90.864
3.50	3.375	0.141	7.855	98.719
3.75	3.625	0.023	1.281	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:	2.3017	phi	(0.2028 mm)
Standard Dev:	0.9570	phi-units	(0.5151 mm)
Skewness:	-0.6609	dimensionless	
Kurtosis:	2.5399	dimensionless	
5th Moment:	-4.6662	dimensionless	
6th Moment:	13.2065	dimensionless	
RARD *	0.4158	dimensionless	
Median	2.2958	phi	(0.2037 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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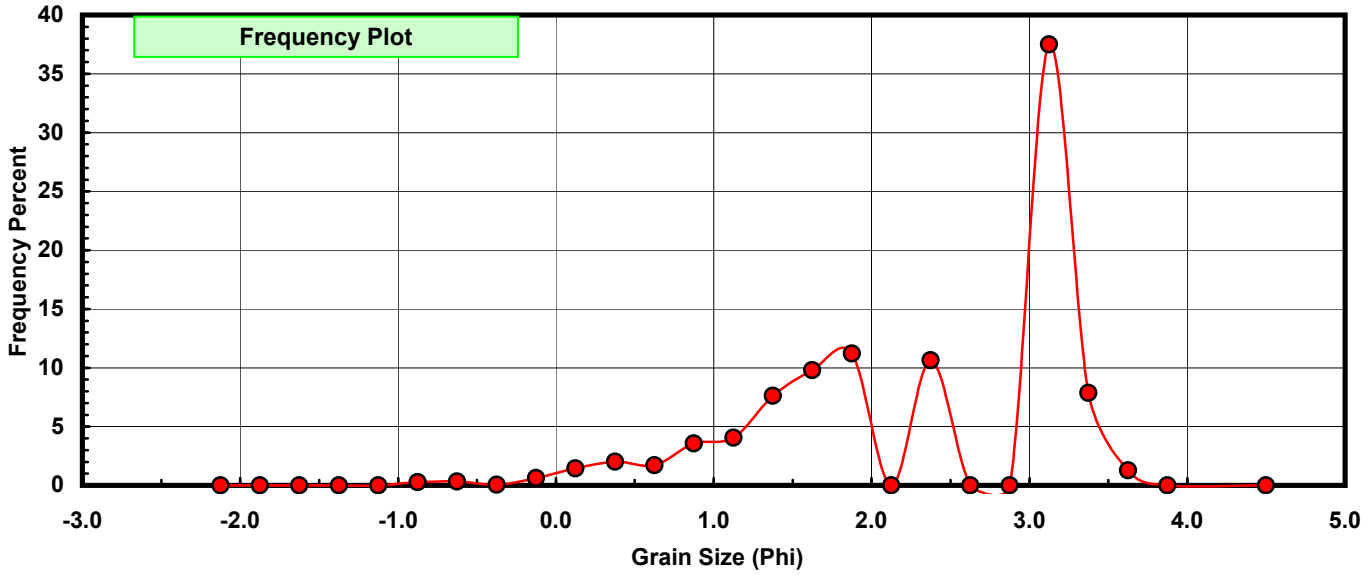

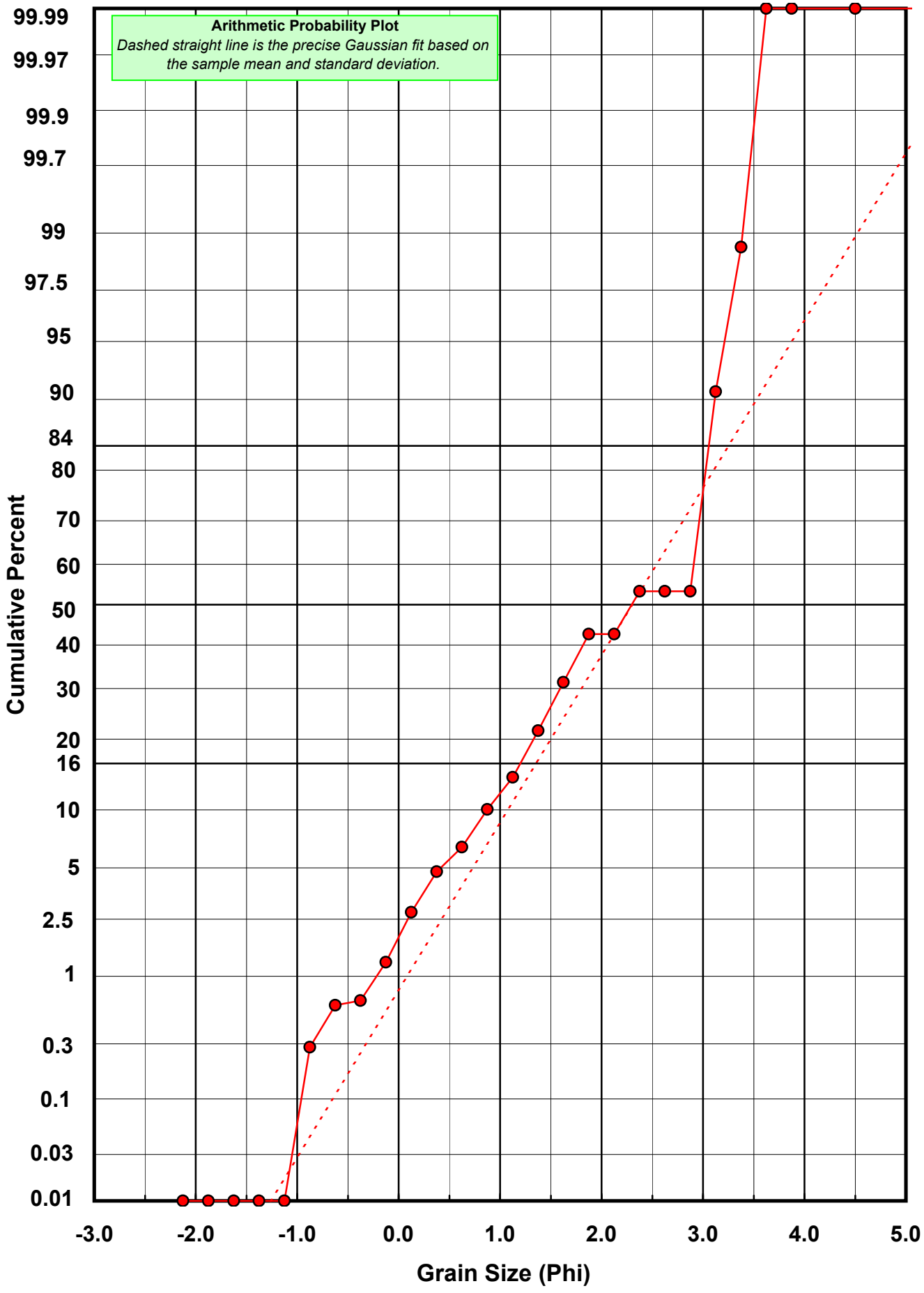
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-36-SS

Total Digested Mass: 59.902 grams

% Silica: 98.0 %

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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.004	0.007	0.007
0.75	0.625	0.006	0.010	0.017
1.00	0.875	0.019	0.032	0.048
1.25	1.125	0.051	0.085	0.134
1.50	1.375	0.130	0.217	0.351
1.75	1.625	0.422	0.704	1.055
2.00	1.875	1.961	3.274	4.329
2.25	2.125	5.763	9.621	13.949
2.50	2.375	12.960	21.635	35.585
2.75	2.625	19.580	32.687	68.272
3.00	2.875	14.288	23.852	92.124
3.25	3.125	3.873	6.466	98.589
3.50	3.375	0.669	1.117	99.706
3.75	3.625	0.133	0.222	99.928
4.00	3.875	0.043	0.072	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5898	phi	(0.1661 mm)
Standard Dev:	0.3337	phi-units	(0.7935 mm)
Skewness:	-0.4071	dimensionless	
Kurtosis:	4.0775	dimensionless	
5th Moment:	-6.1615	dimensionless	
6th Moment:	42.9747	dimensionless	
RARD *	0.1289	dimensionless	
Median	2.4853	phi	(0.1786 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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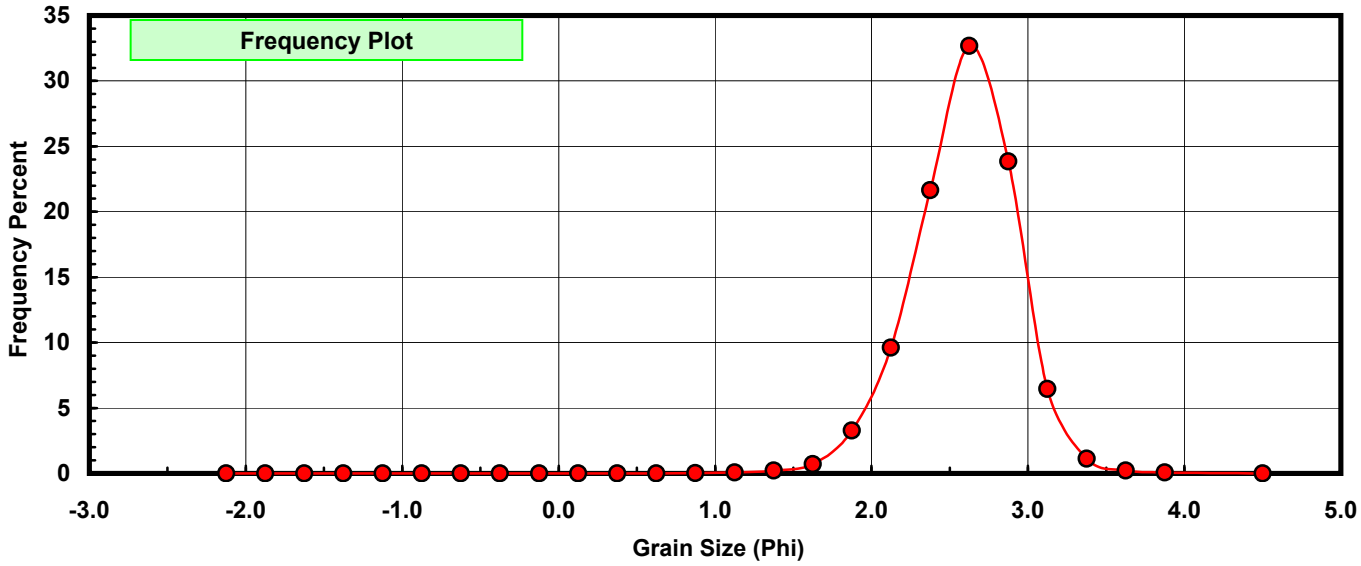

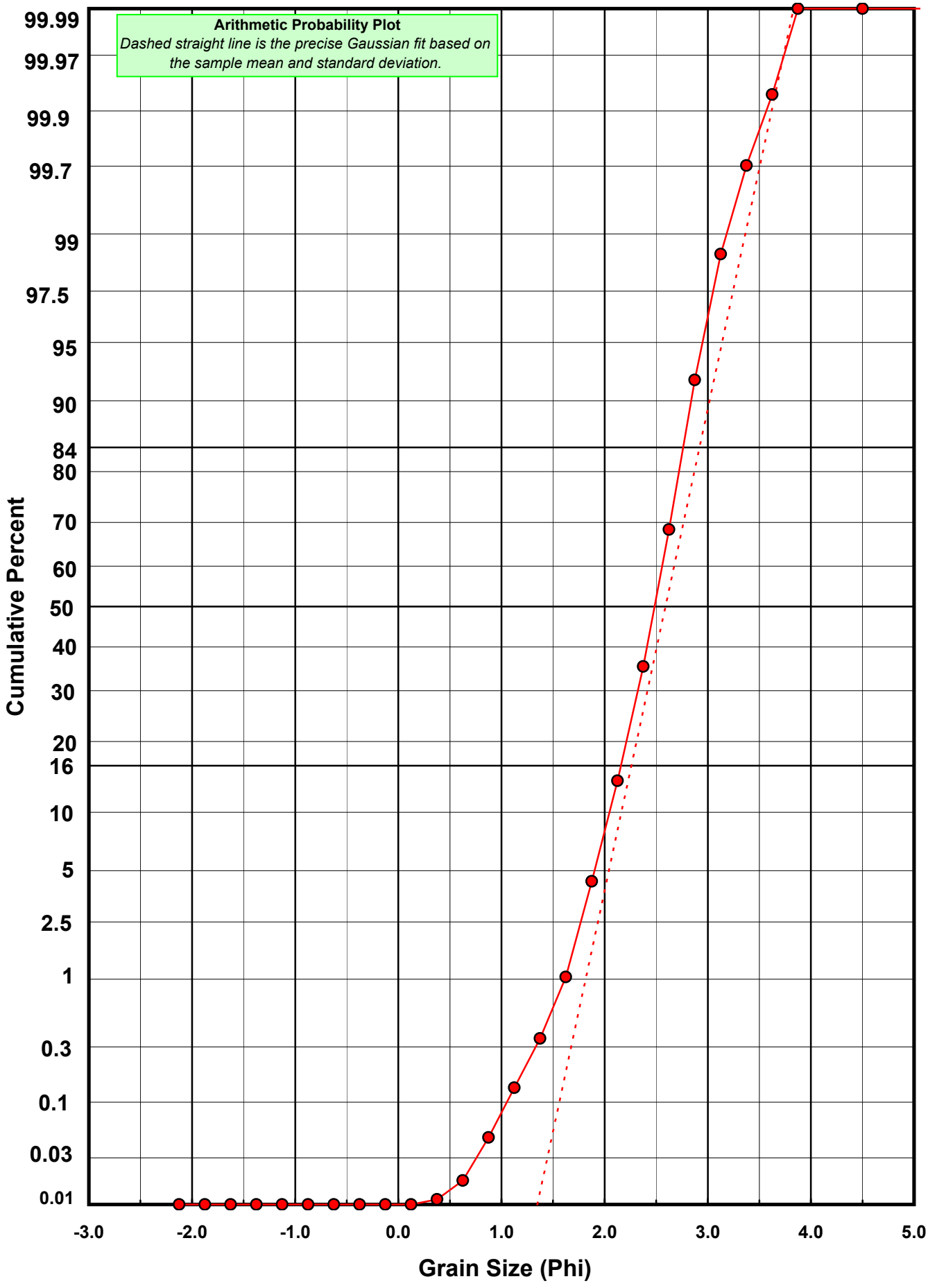
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0.03
0.01
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-2.0
-1.0
0.0
1.0
2.0
3.0
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5.0
Grain Size (Phi)