Onshore Grab Sample

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

County: St. Johns
Latitude: 29° 45' 59.6"
Longitude: 81° 15' 3.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	48.523	grams
Total Fines in Sample	0.140	grams
Total Percent Fines	0.29	%

Dry Sieving Summary

Total Sample Weight	48.371	grams
Total Digested Weight	47.549	grams
Total Carbonate Weight	0.822	grams
Total Silica %	98.30	%
Total Carbonate %	1.70	%
Carbonate/Silica Ratio	0.017	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-36-BB

Total Sample Mass: 48.371 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	0.001	0.002	0.004
0.75	0.625	0.006	0.012	0.017
1.00	0.875	0.008	0.017	0.033
1.25	1.125	0.005	0.010	0.043
1.50	1.375	0.005	0.010	0.054
1.75	1.625	0.029	0.060	0.114
2.00	1.875	0.423	0.874	0.988
2.25	2.125	2.387	4.935	5.923
2.50	2.375	8.636	17.854	23.777
2.75	2.625	17.556	36.294	60.071
3.00	2.875	13.452	27.810	87.881
3.25	3.125	4.155	8.590	96.471
3.50	3.375	0.997	2.061	98.532
3.75	3.625	0.468	0.968	99.500
4.00	3.875	0.188	0.389	99.888
5.00	4.500	0.054	0.112	100.000

Statistical Results			
Mean:	2.6922	phi	(0.1547 mm)
Standard Dev:	0.3135	phi-units	(0.8047 mm)
Skewness:	0.4132	dimensionless	
Kurtosis:	5.5767	dimensionless	
5th Moment:	7.1788	dimensionless	
6th Moment:	97.6404	dimensionless	
RARD *	0.1165	dimensionless	
Median	2.5556	phi	(0.1701 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

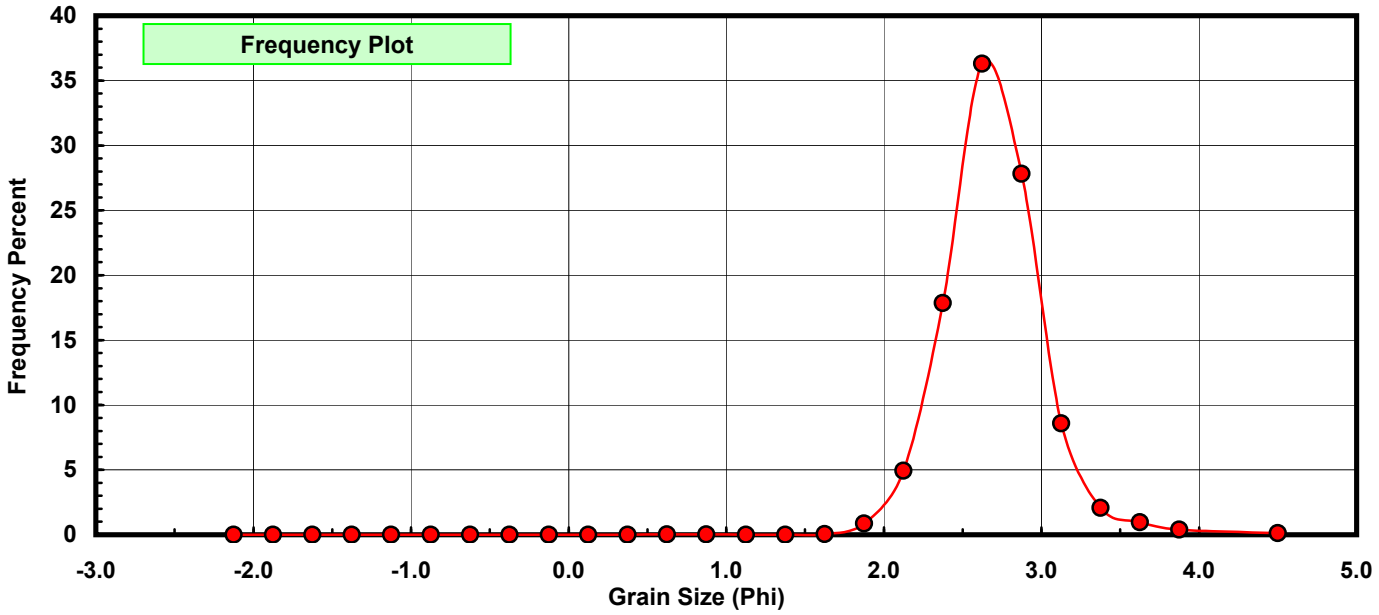
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

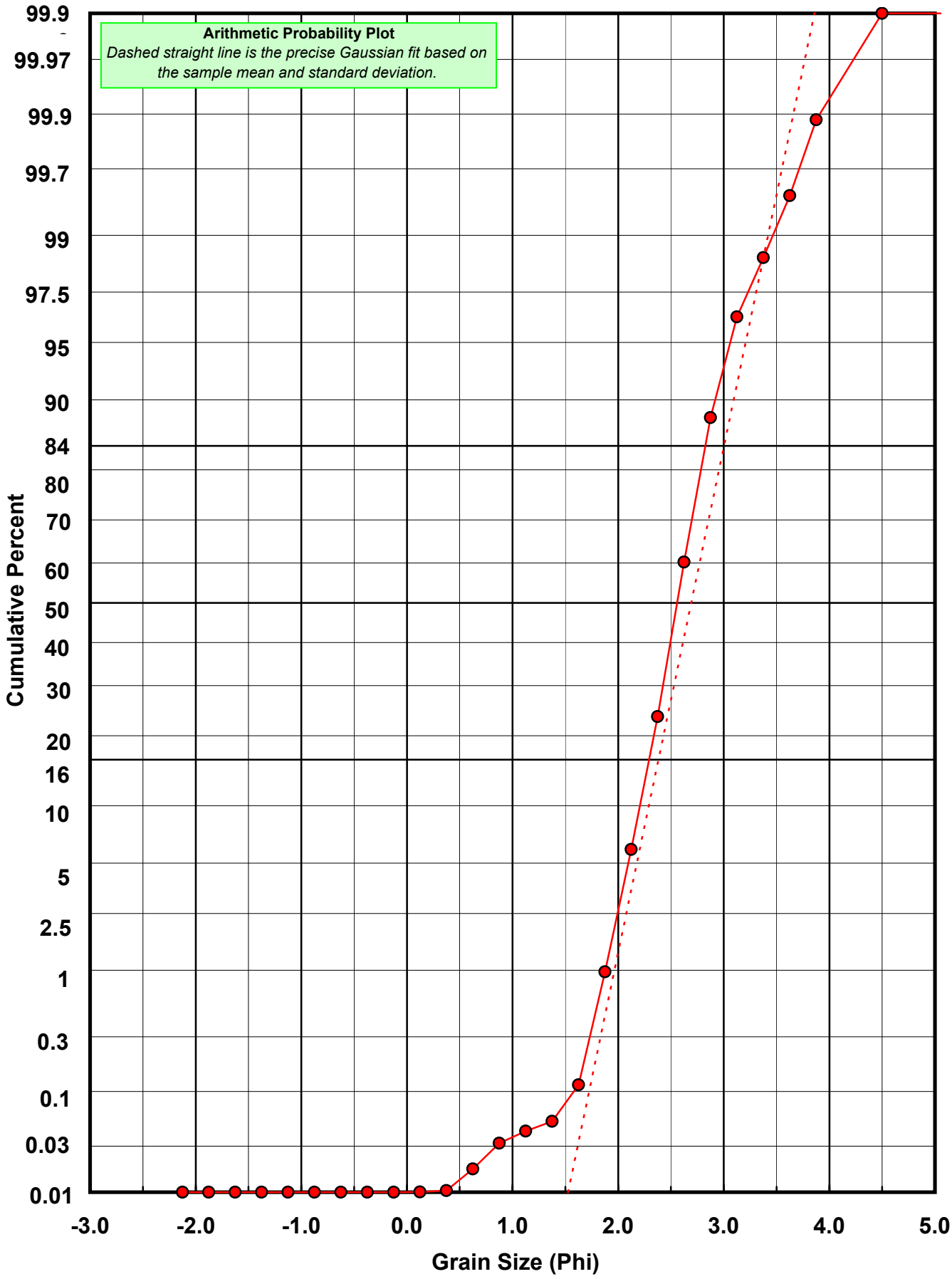
For Further Explanation, See Calculation Sheets

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-BB

Total Carbonate Mass: 1.278 grams

% Carbonate: 1.7 %

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	0.078	0.078
0.50	0.375	0.001	0.078	0.156
0.75	0.625	0.000	0.000	0.156
1.00	0.875	0.005	0.391	0.548
1.25	1.125	0.000	0.000	0.548
1.50	1.375	0.003	0.235	0.782
1.75	1.625	0.006	0.469	1.252
2.00	1.875	0.133	10.407	11.659
2.25	2.125	0.207	16.197	27.856
2.50	2.375	0.250	19.562	47.418
2.75	2.625	0.000	0.000	47.418
3.00	2.875	0.481	37.637	85.055
3.25	3.125	0.000	0.000	85.055
3.50	3.375	0.151	11.815	96.870
3.75	3.625	0.004	0.313	97.183
4.00	3.875	0.036	2.817	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6199	phi	(0.1627 mm)
Standard Dev:	0.5268	phi-units	(0.6941 mm)
Skewness:	-0.0033	dimensionless	
Kurtosis:	3.2745	dimensionless	
5th Moment:	-2.5536	dimensionless	
6th Moment:	26.5700	dimensionless	
RARD *	0.2011	dimensionless	
Median	2.6422	phi	(0.1602 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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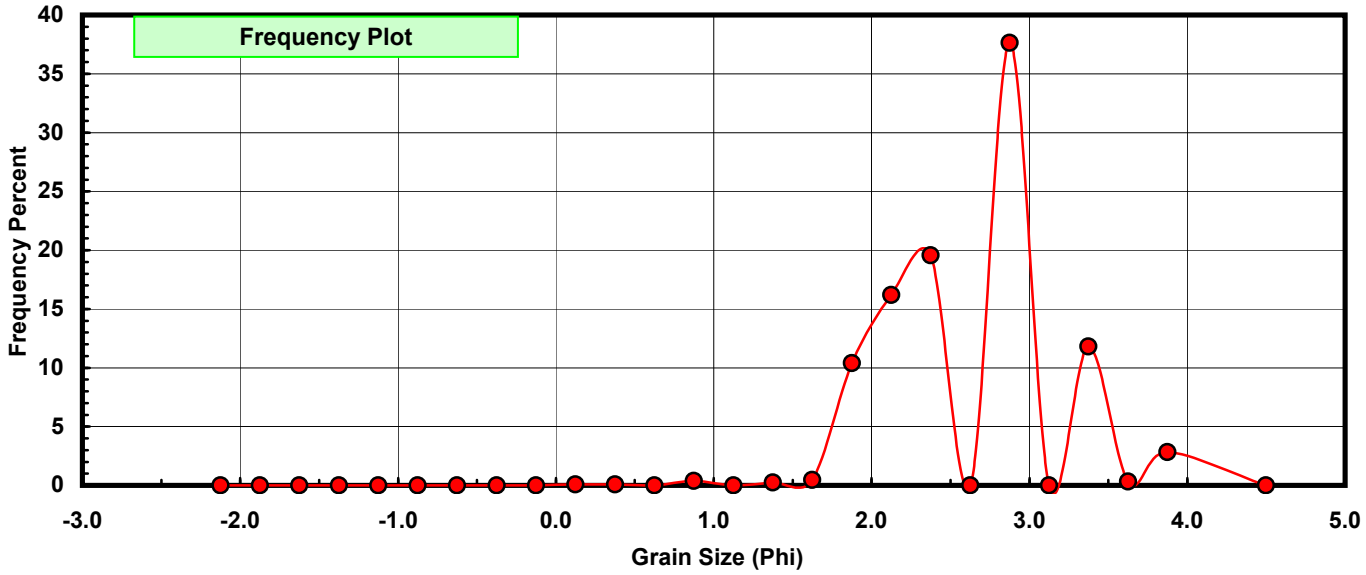

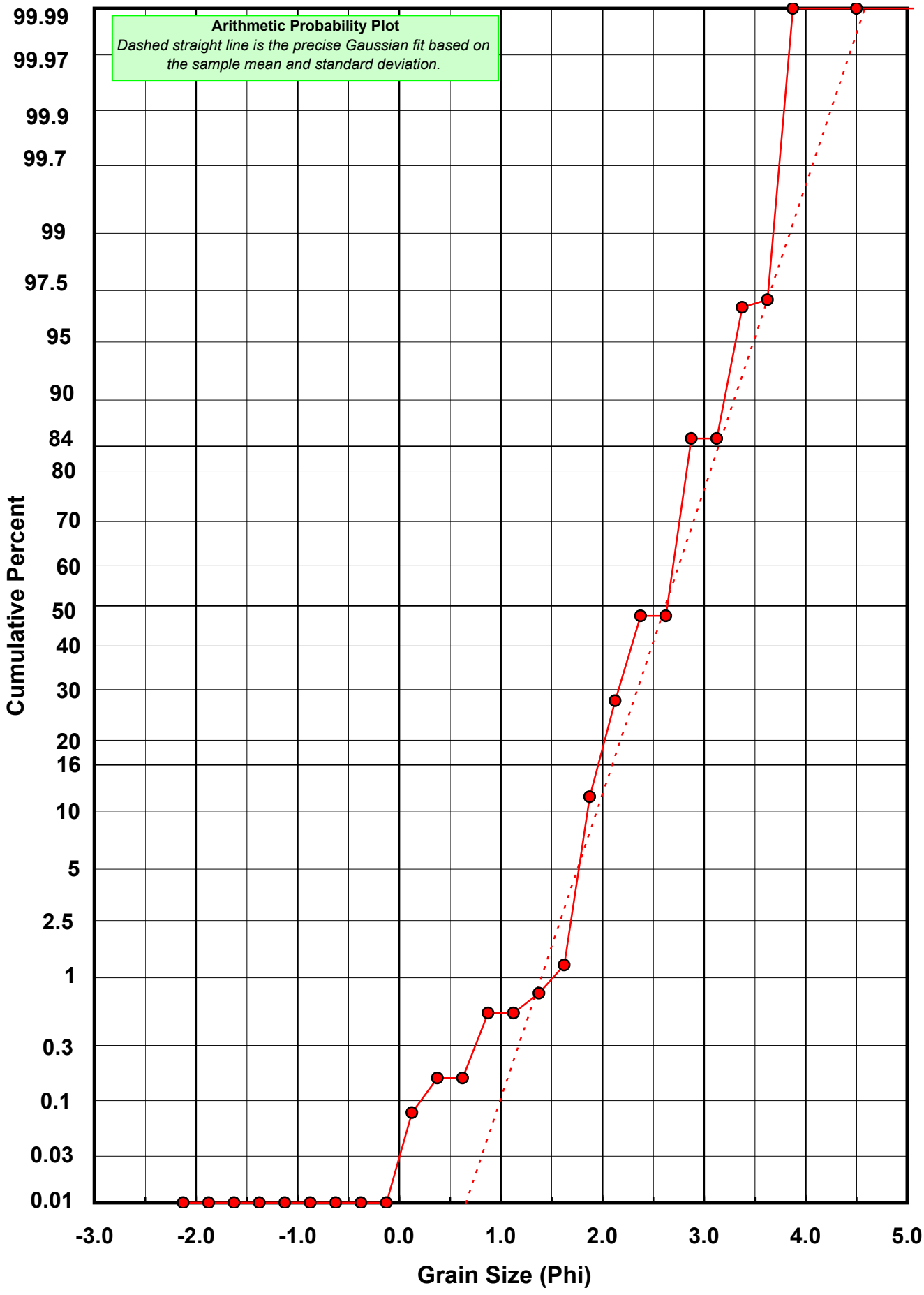
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-36-BB

Total Digested Mass: 47.504 grams

% Silica: 98.3 %

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	0.009	0.019	0.019
1.00	0.875	0.003	0.006	0.025
1.25	1.125	0.005	0.011	0.036
1.50	1.375	0.002	0.004	0.040
1.75	1.625	0.023	0.048	0.088
2.00	1.875	0.290	0.610	0.699
2.25	2.125	2.180	4.589	5.288
2.50	2.375	8.386	17.653	22.941
2.75	2.625	17.996	37.883	60.824
3.00	2.875	12.971	27.305	88.129
3.25	3.125	4.177	8.793	96.922
3.50	3.375	0.846	1.781	98.703
3.75	3.625	0.464	0.977	99.680
4.00	3.875	0.152	0.320	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6915	phi	(0.1548 mm)
Standard Dev:	0.2983	phi-units	(0.8132 mm)
Skewness:	0.2799	dimensionless	
Kurtosis:	4.6137	dimensionless	
5th Moment:	1.1862	dimensionless	
6th Moment:	59.0246	dimensionless	
RARD *	0.1108	dimensionless	
Median	2.5536	phi	(0.1703 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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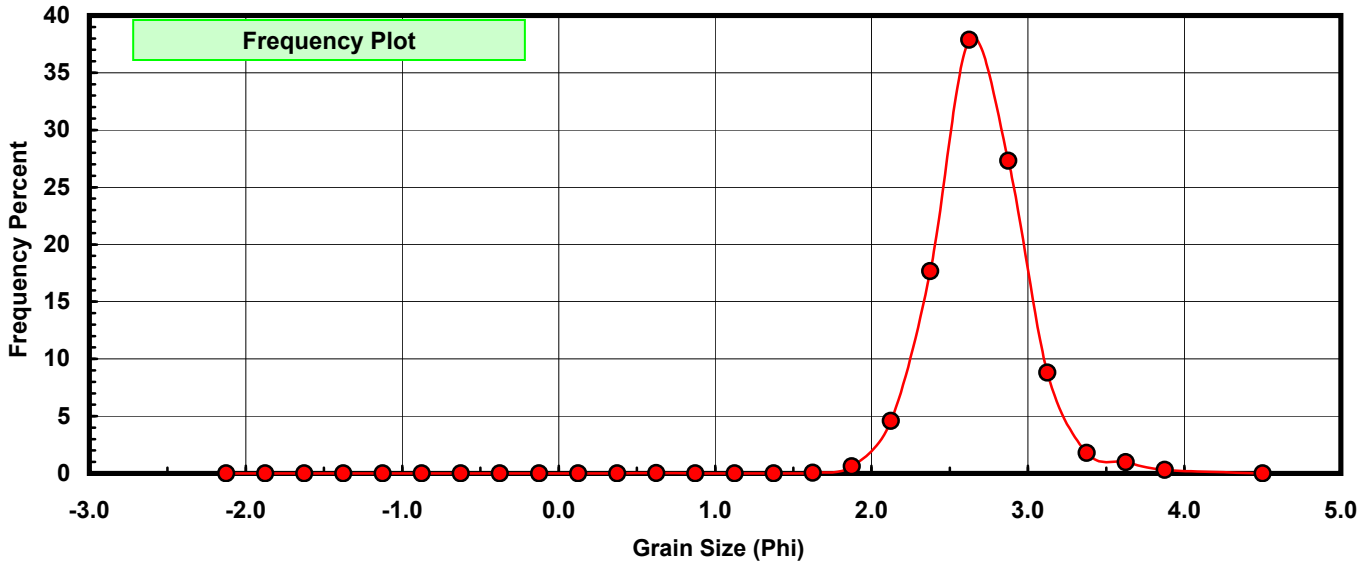

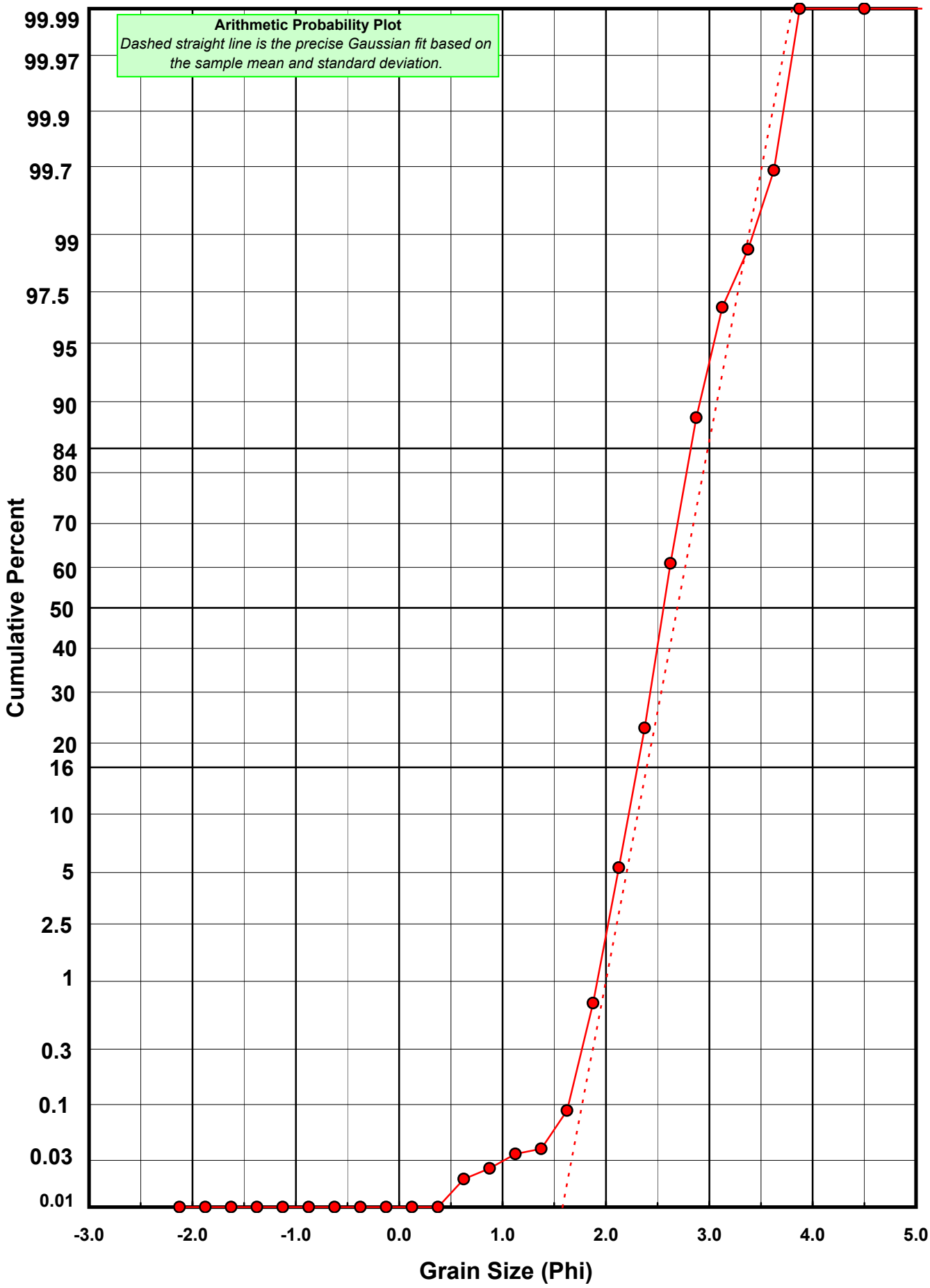
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0.1
0.03
0.01
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-2.0
-1.0
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3.0
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5.0
Grain Size (Phi)