Onshore Grab Sample

Sample: SJ-36-MB
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' 2.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.184	grams
Total Fines in Sample	0.301	grams
Total Percent Fines	0.55	%

Dry Sieving Summary

Total Sample Weight	53.694	grams
Total Digested Weight	52.741	grams
Total Carbonate Weight	0.953	grams
Total Silica %	98.23	%
Total Carbonate %	1.77	%
Carbonate/Silica Ratio	0.018	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-36-MB

Total Sample Mass: 53.694 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	0.004	0.007	0.007
0.25	0.125	0.003	0.006	0.013
0.50	0.375	0.005	0.009	0.022
0.75	0.625	0.002	0.004	0.026
1.00	0.875	0.004	0.007	0.034
1.25	1.125	0.003	0.006	0.039
1.50	1.375	0.001	0.002	0.041
1.75	1.625	0.006	0.011	0.052
2.00	1.875	0.117	0.218	0.270
2.25	2.125	1.233	2.296	2.566
2.50	2.375	6.366	11.856	14.422
2.75	2.625	17.877	33.294	47.717
3.00	2.875	19.060	35.497	83.214
3.25	3.125	7.277	13.553	96.767
3.50	3.375	1.399	2.606	99.372
3.75	3.625	0.237	0.441	99.814
4.00	3.875	0.083	0.155	99.968
5.00	4.500	0.017	0.032	100.000

Statistical Results			
Mean:	2.7643	phi	(0.1472 mm)
Standard Dev:	0.2777	phi-units	(0.8249 mm)
Skewness:	-0.0702	dimensionless	
Kurtosis:	5.9965	dimensionless	
5th Moment:	-15.9465	dimensionless	
6th Moment:	235.6030	dimensionless	
RARD *	0.1005	dimensionless	
Median	2.6411	phi	(0.1603 mm)

* RARD = reciprocal absolute relative dispersion (see below)

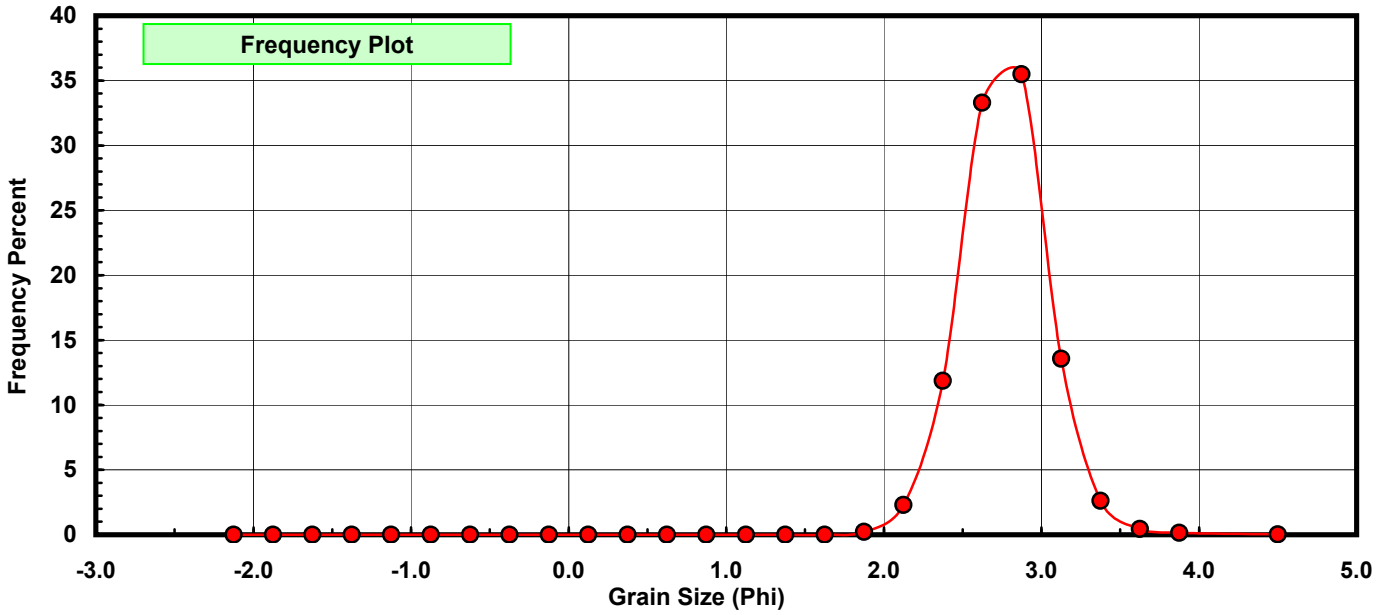
Statistical Explanation

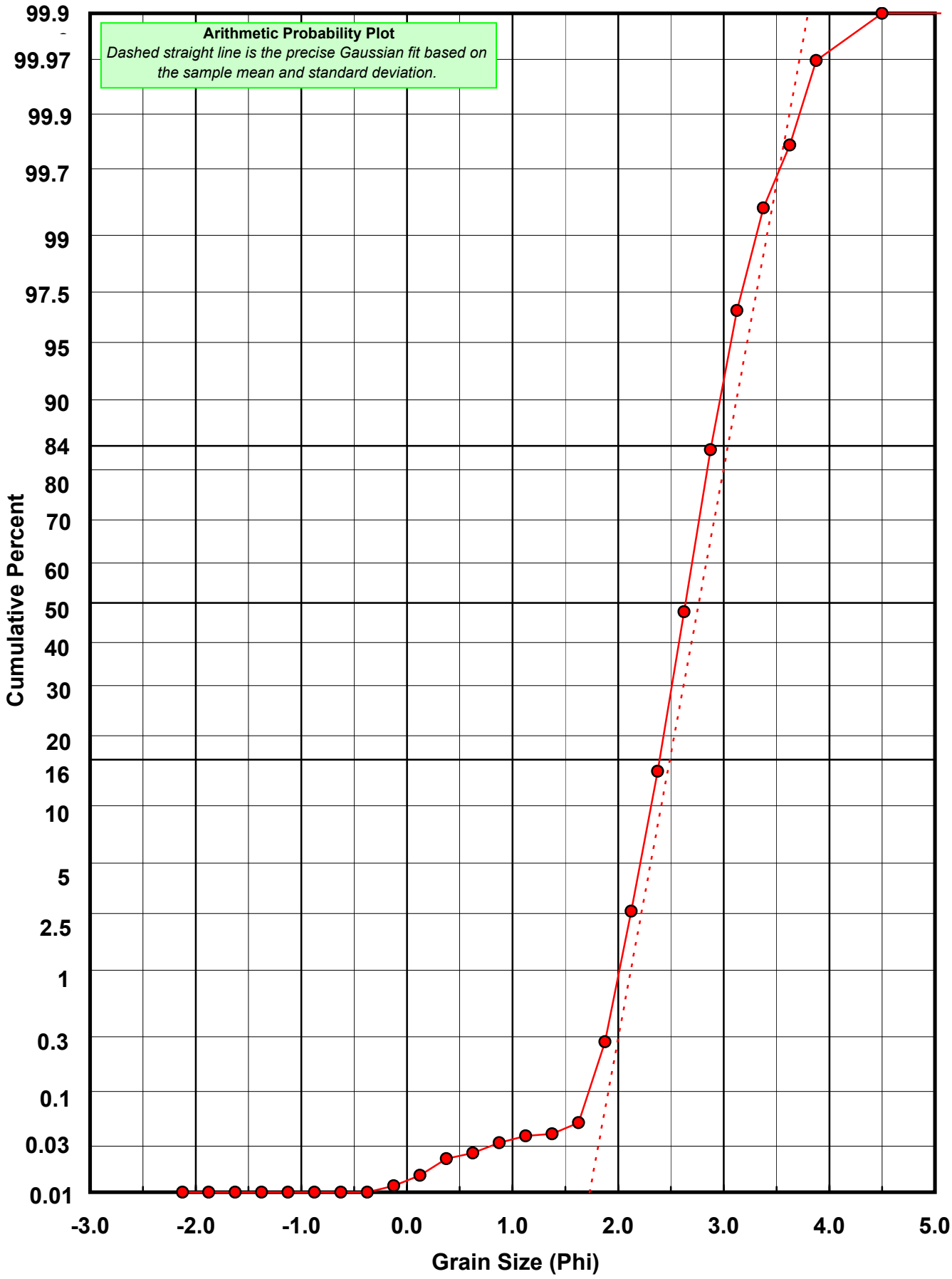
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-36-MB

Total Carbonate Mass: 2.318 grams

% Carbonate: 1.8 %

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	0.004	0.173	0.173
0.25	0.125	0.003	0.129	0.302
0.50	0.375	0.003	0.129	0.431
0.75	0.625	0.000	0.000	0.431
1.00	0.875	0.003	0.129	0.561
1.25	1.125	0.000	0.000	0.561
1.50	1.375	0.000	0.000	0.561
1.75	1.625	0.001	0.043	0.604
2.00	1.875	0.024	1.035	1.639
2.25	2.125	0.090	3.883	5.522
2.50	2.375	0.000	0.000	5.522
2.75	2.625	0.000	0.000	5.522
3.00	2.875	1.170	50.475	55.997
3.25	3.125	0.790	34.081	90.078
3.50	3.375	0.185	7.981	98.059
3.75	3.625	0.013	0.561	98.619
4.00	3.875	0.032	1.381	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.9635	phi	(0.1282 mm)
Standard Dev:	0.3490	phi-units	(0.7851 mm)
Skewness:	-3.1336	dimensionless	
Kurtosis:	25.0687	dimensionless	
5th Moment:	-183.1496	dimensionless	
6th Moment:	1500.8815	dimensionless	
RARD *	0.1178	dimensionless	
Median	2.8453	phi	(0.1391 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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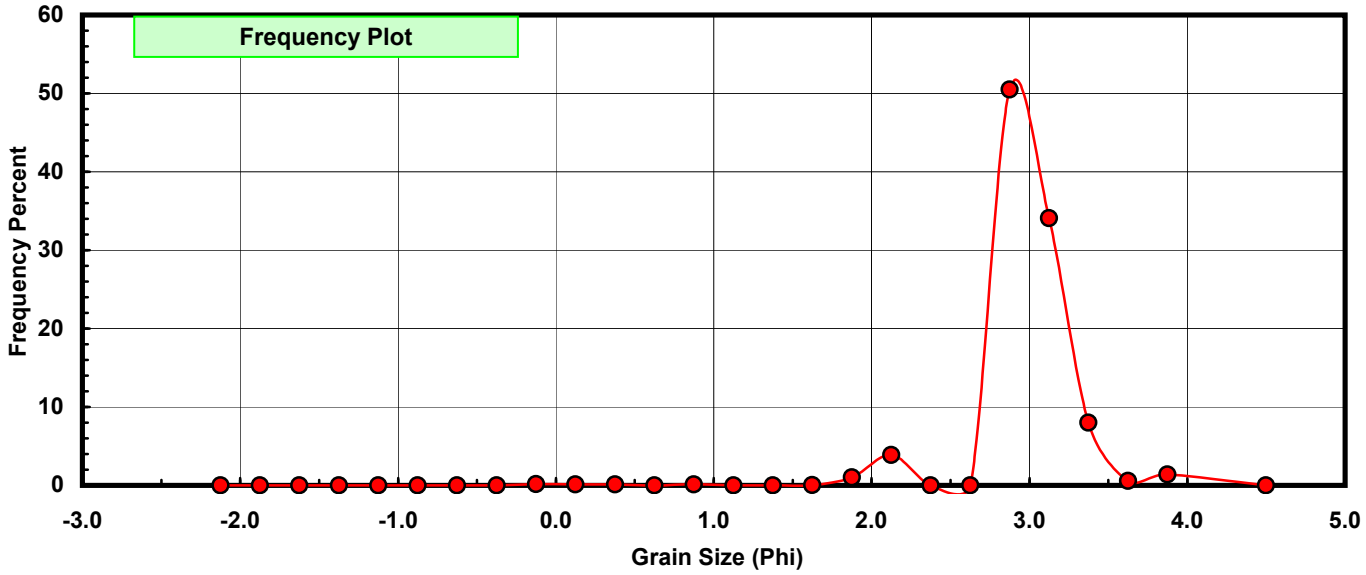

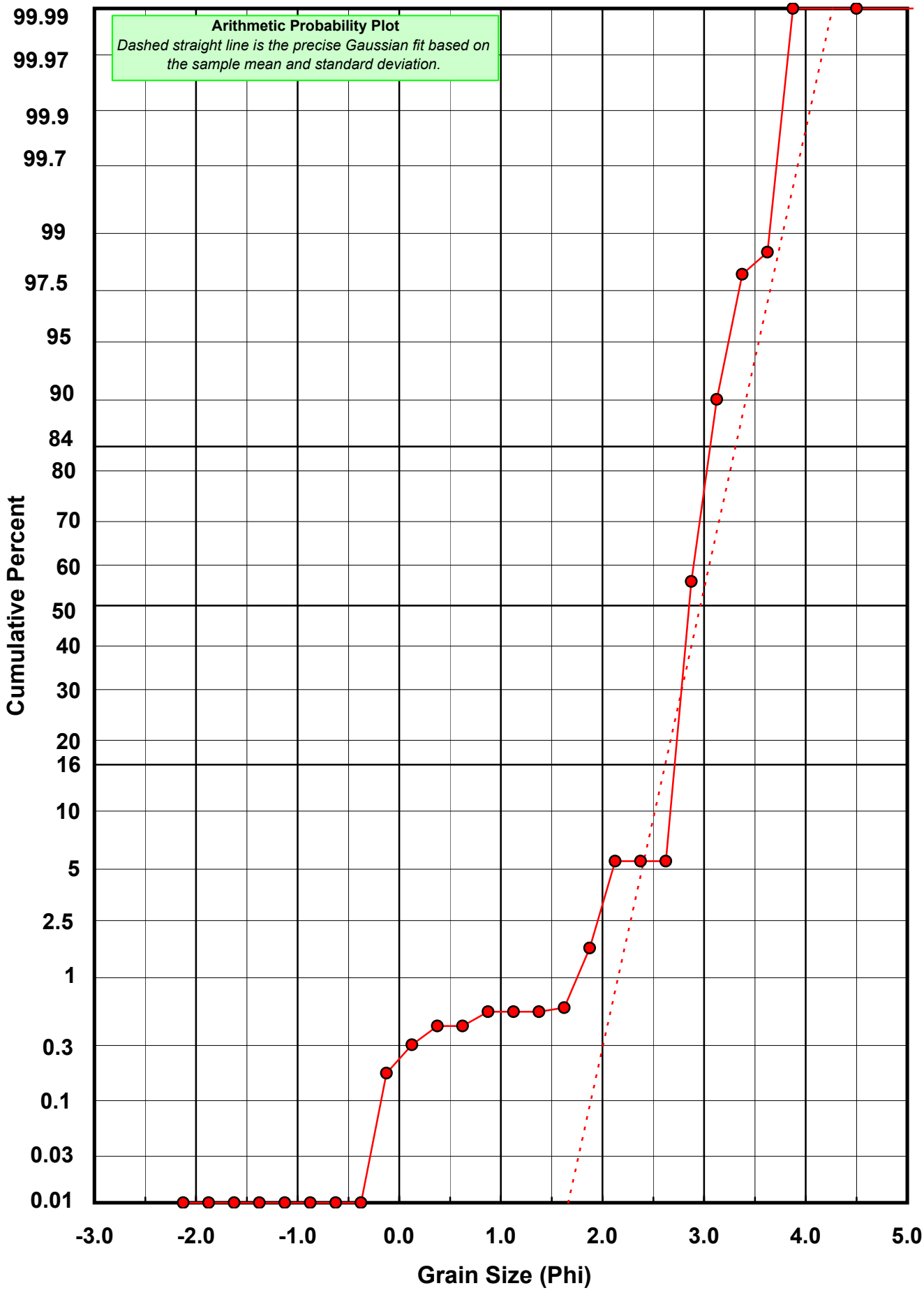
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-36-MB

Total Digested Mass: 52.730 grams

% Silica: 98.2 %

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	0.002	0.004	0.004
0.75	0.625	0.003	0.006	0.009
1.00	0.875	0.001	0.002	0.011
1.25	1.125	0.006	0.011	0.023
1.50	1.375	0.001	0.002	0.025
1.75	1.625	0.005	0.009	0.034
2.00	1.875	0.093	0.176	0.211
2.25	2.125	1.143	2.168	2.378
2.50	2.375	6.835	12.962	15.340
2.75	2.625	18.775	35.606	50.946
3.00	2.875	17.890	33.928	84.874
3.25	3.125	6.487	12.302	97.176
3.50	3.375	1.214	2.302	99.478
3.75	3.625	0.224	0.425	99.903
4.00	3.875	0.051	0.097	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7490	phi	(0.1488 mm)
Standard Dev:	0.2684	phi-units	(0.8302 mm)
Skewness:	0.0715	dimensionless	
Kurtosis:	4.0617	dimensionless	
5th Moment:	-3.0159	dimensionless	
6th Moment:	63.4936	dimensionless	
RARD *	0.0976	dimensionless	
Median	2.6184	phi	(0.1629 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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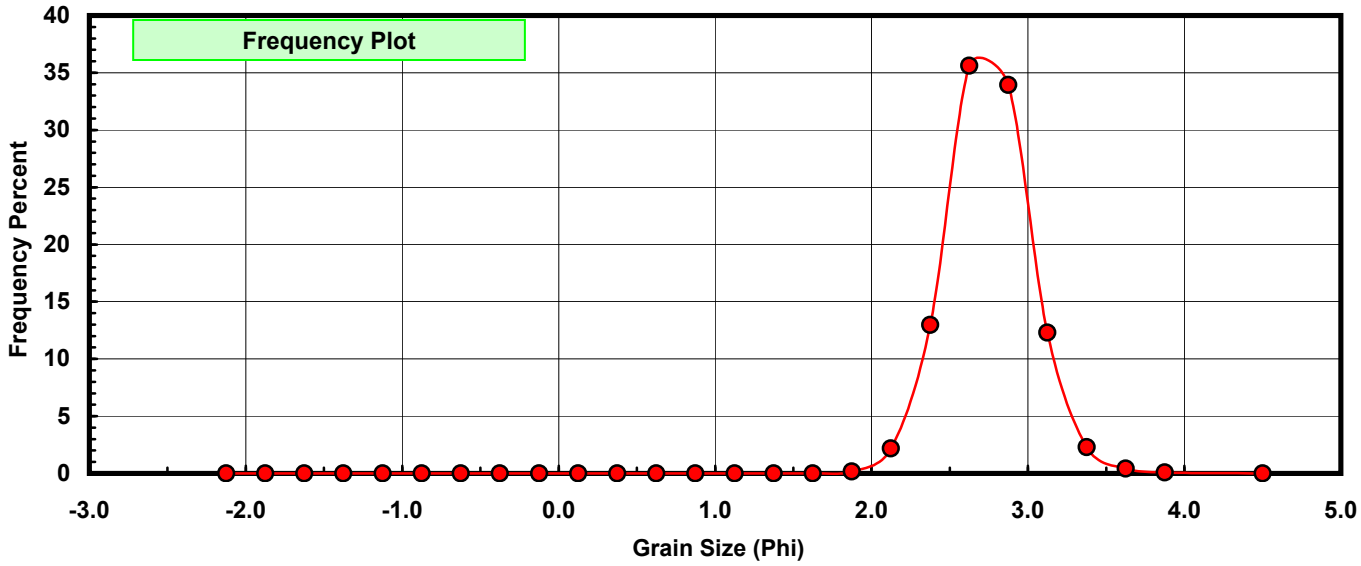

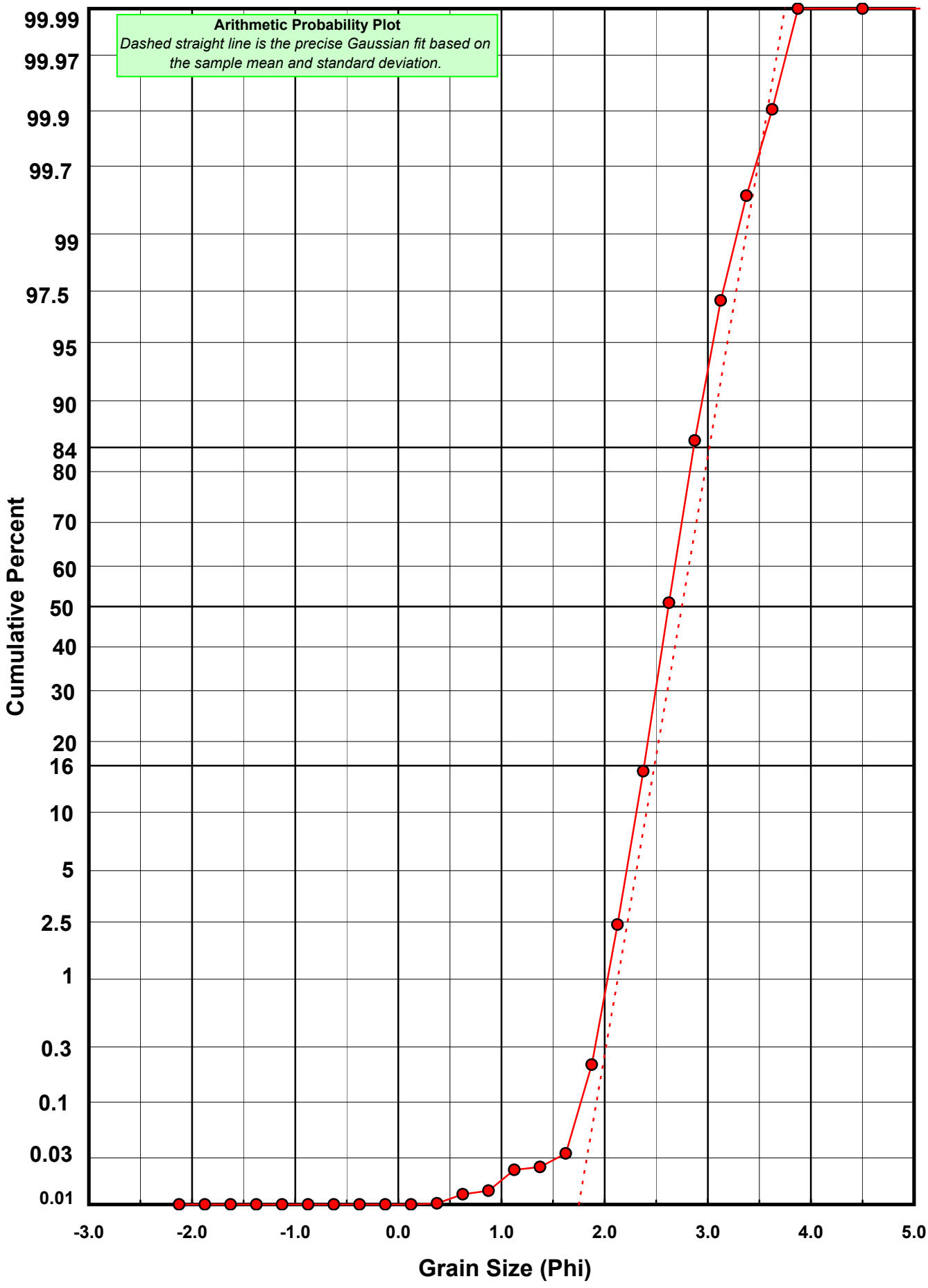
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-2.0
-1.0
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Grain Size (Phi)