Onshore Grab Sample

Sample: SR-02-SS
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Santa Rosa
Latitude: 30° 22' 59.62"
Longitude: 86° 50' 15.92"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	90.894	grams
Total Fines in Sample	0.830	grams
Total Percent Fines	0.90	%

Dry Sieving Summary

Total Sample Weight	89.975	grams
Total Digested Weight	89.883	grams
Total Carbonate Weight	0.092	grams
Total Silica %	99.90	%
Total Carbonate %	0.10	%
Carbonate/Silica Ratio	0.001	

General Comments:

Original Weight (with Beaker): 377.466

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SR-02-SS

Total Sample Mass: 89.975 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	0.010	0.011	0.011
0.25	0.125	0.026	0.029	0.040
0.50	0.375	0.162	0.180	0.220
0.75	0.625	0.823	0.915	1.135
1.00	0.875	7.836	8.709	9.844
1.25	1.125	24.607	27.349	37.193
1.50	1.375	35.358	39.298	76.490
1.75	1.625	16.777	18.646	95.136
2.00	1.875	3.938	4.377	99.513
2.25	2.125	0.385	0.428	99.941
2.50	2.375	0.023	0.026	99.967
2.75	2.625	0.009	0.010	99.977
3.00	2.875	0.003	0.003	99.980
3.25	3.125	0.006	0.007	99.987
3.50	3.375	0.005	0.006	99.992
3.75	3.625	0.003	0.003	99.996
4.00	3.875	0.001	0.001	99.997
5.00	4.50	0.003	0.003	100.000

Statistical Results			
Mean:	1.3265	phi	(0.3987 mm)
Standard Dev:	0.2673	phi-units	(0.8309 mm)
Skewness:	0.0936	dimensionless	
Kurtosis:	4.6143	dimensionless	
5th Moment:	12.0132	dimensionless	
6th Moment:	158.6713	dimensionless	
RARD *	0.2015	dimensionless	
Median	1.2065	phi	(0.4333 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

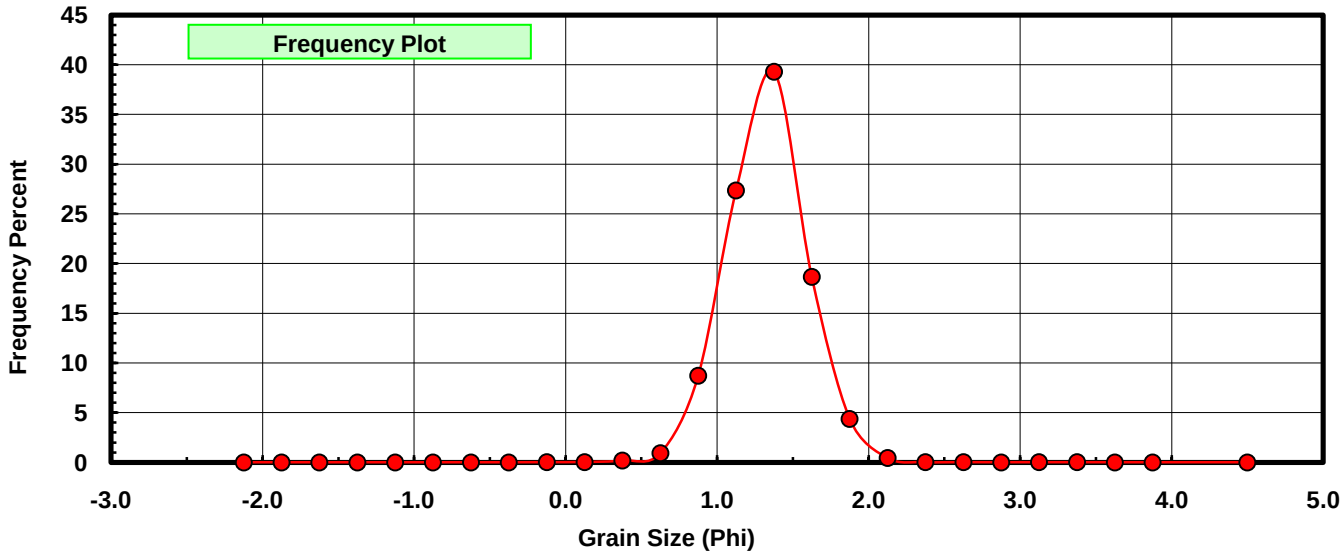
Statistical Explanation

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 Basillle et al. 2002

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)



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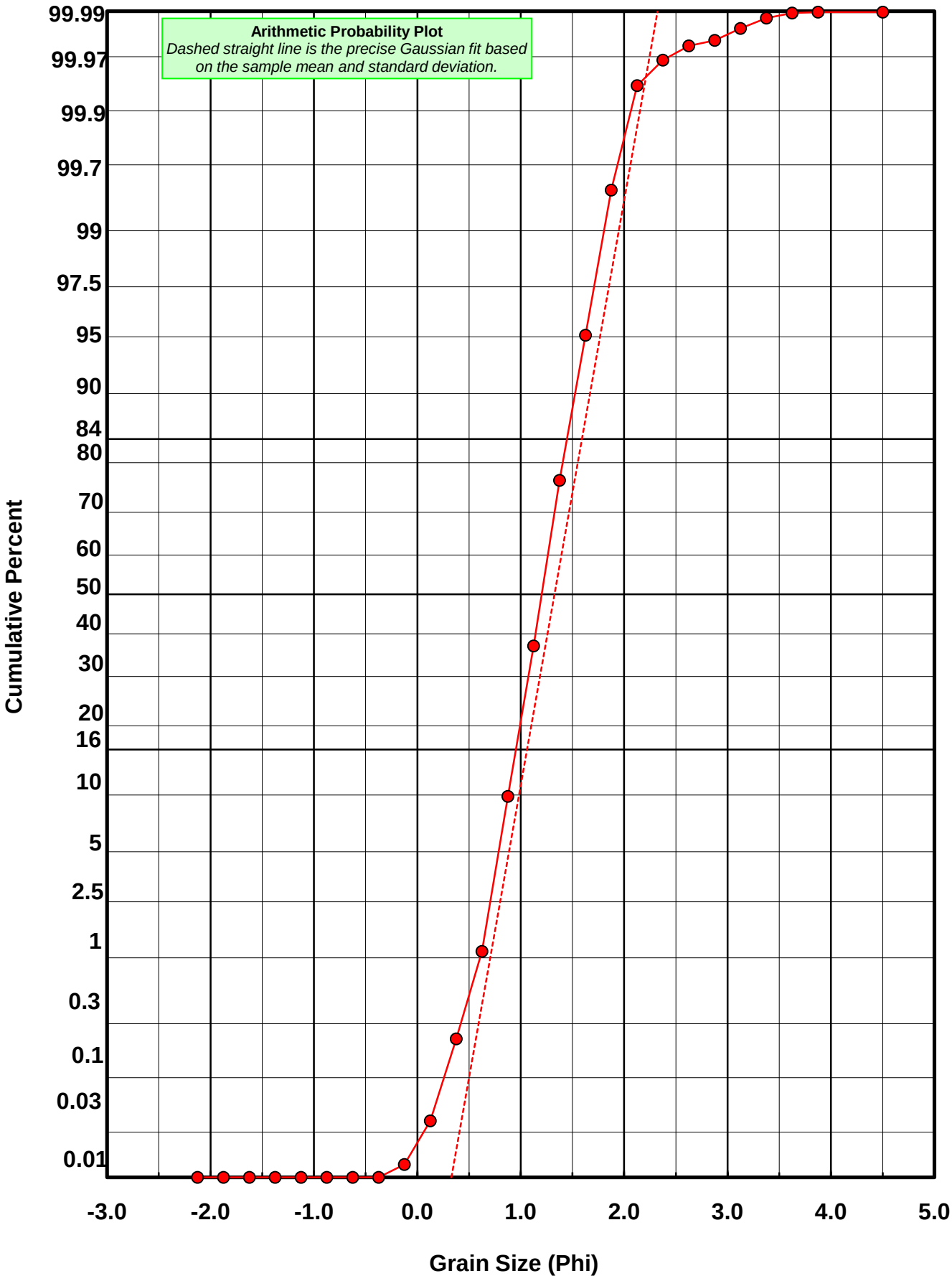
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SR-02-SS

Total Carbonate Mass: 1.513 grams

% Carbonate: 0.1 %

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	0.012	0.793	0.793
0.75	0.625	0.000	0.000	0.793
1.00	0.875	0.000	0.000	0.793
1.25	1.125	1.494	98.744	99.537
1.50	1.375	0.000	0.000	99.537
1.75	1.625	0.000	0.000	99.537
2.00	1.875	0.000	0.000	99.537
2.25	2.125	0.000	0.000	99.537
2.50	2.375	0.002	0.132	99.670
2.75	2.625	0.000	0.000	99.670
3.00	2.875	0.000	0.000	99.670
3.25	3.125	0.000	0.000	99.670
3.50	3.375	0.003	0.198	99.868
3.75	3.625	0.002	0.132	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:	1.1285	phi	(0.4574 mm)
Standard Dev:	0.1575	phi-units	(0.8966 mm)
Skewness:	10.8002	dimensionless	
Kurtosis:	174.7477	dimensionless	
5th Moment:	2512.5156	dimensionless	
6th Moment:	#########	dimensionless	
RARD *	0.1396	dimensionless	
Median	0.9996	phi	(0.5001 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 Basillle et al. 2002

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
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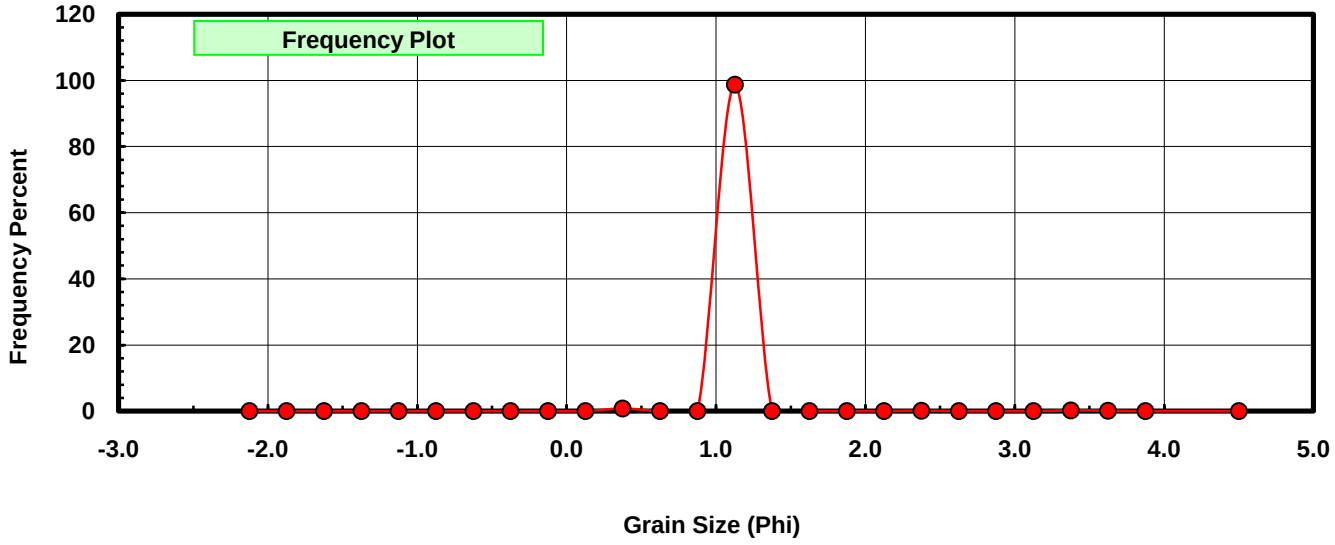

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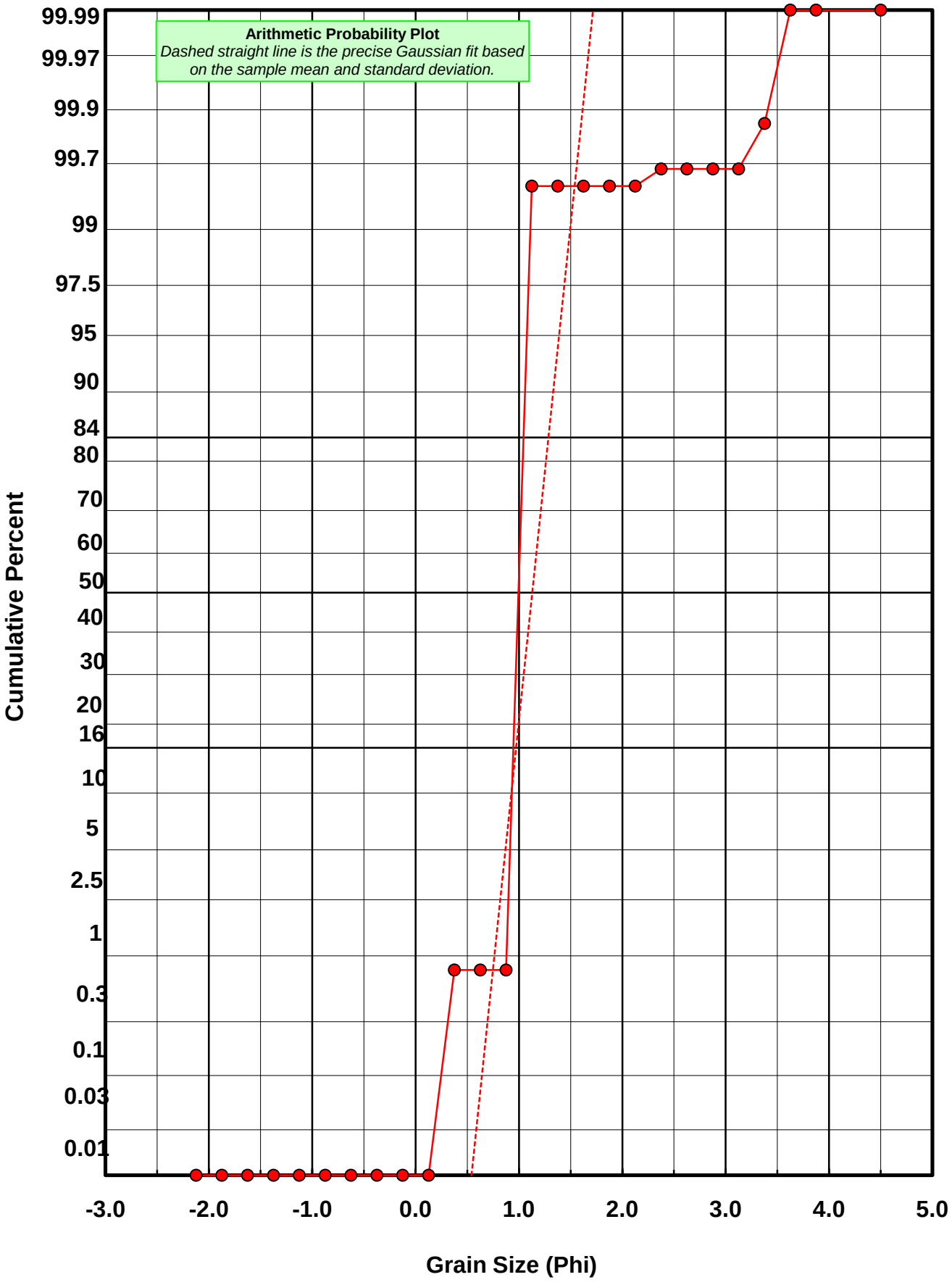
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SR-02-SS

Total Digested Mass: 89.883 grams

% Silica: 99.9 %

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	0.011	0.012	0.012
0.25	0.125	0.028	0.031	0.043
0.50	0.375	0.150	0.167	0.210
0.75	0.625	0.882	0.981	1.192
1.00	0.875	8.227	9.153	10.345
1.25	1.125	23.113	25.715	36.059
1.50	1.375	35.953	40.000	76.059
1.75	1.625	16.948	18.856	94.914
2.00	1.875	4.088	4.548	99.463
2.25	2.125	0.431	0.480	99.942
2.50	2.375	0.021	0.023	99.966
2.75	2.625	0.011	0.012	99.978
3.00	2.875	0.005	0.006	99.983
3.25	3.125	0.006	0.007	99.990
3.50	3.375	0.002	0.002	99.992
3.75	3.625	0.001	0.001	99.993
4.00	3.875	0.002	0.002	99.996
5.00	4.500	0.004	0.004	100.000

Statistical Results			
Mean:	1.3297	phi	(0.3979 mm)
Standard Dev:	0.2702	phi-units	(0.8292 mm)
Skewness:	0.0667	dimensionless	
Kurtosis:	4.6529	dimensionless	
5th Moment:	12.8333	dimensionless	
6th Moment:	172.4511	dimensionless	
RARD *	0.2032	dimensionless	
Median	1.2121	phi	(0.4316 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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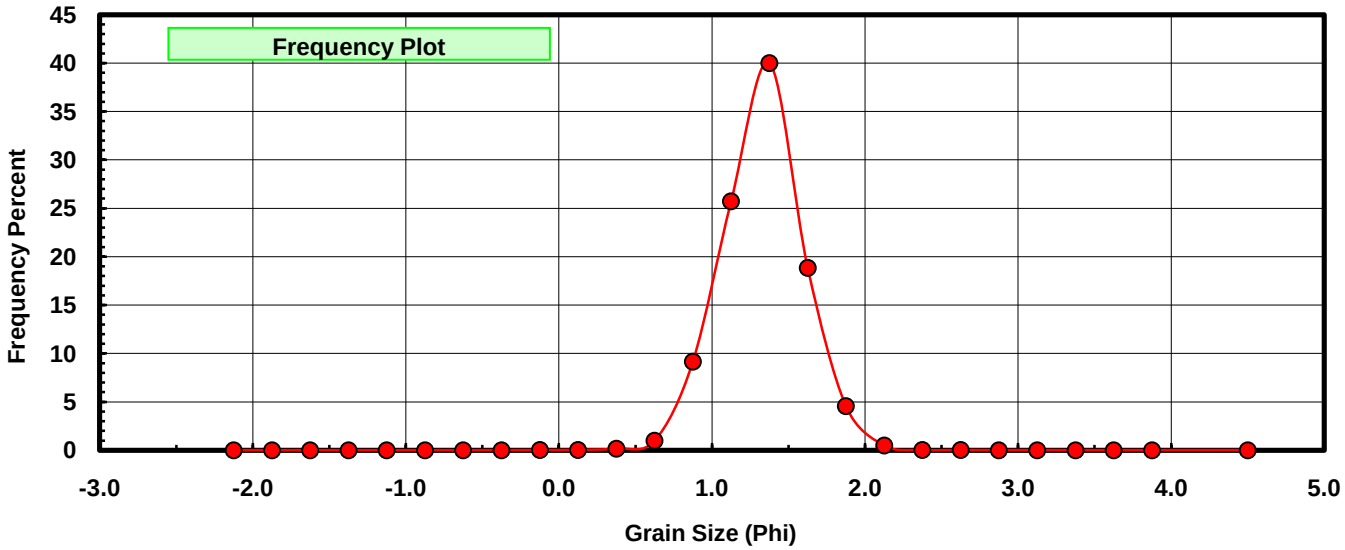

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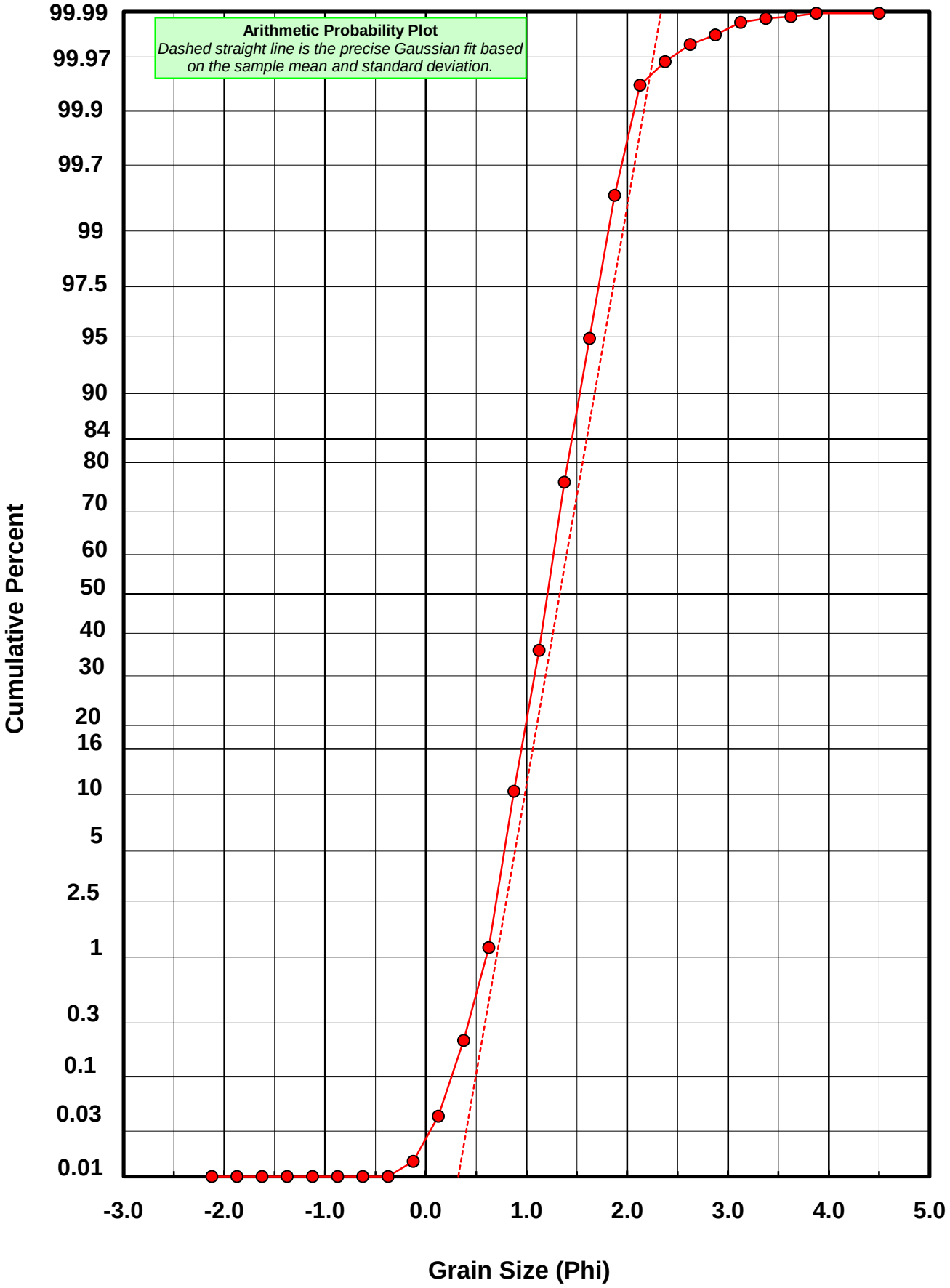
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Grain Size (Phi)