Onshore Grab Sample

Sample: BV-14-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/17/09
Splits? N/A

County: Brevard
Latitude: 28° 38' 0.5"
Longitude: 80° 36' 56.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	58.505	grams
Total Fines in Sample	0.042	grams
Total Percent Fines	0.07	%

Dry Sieving Summary

Total Sample Weight	58.447	grams
Total Digested Weight	43.471	grams
Total Carbonate Weight	14.976	grams
Total Silica %	74.38	%
Total Carbonate %	25.62	%
Carbonate/Silica Ratio	0.345	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-14-BB

Total Sample Mass: 58.447 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.014	0.024	0.024
-1.25	-1.375	0.000	0.000	0.024
-1.00	-1.125	0.000	0.000	0.024
-0.75	-0.875	0.018	0.031	0.055
-0.50	-0.625	0.054	0.092	0.147
-0.25	-0.375	0.167	0.286	0.433
0.00	-0.125	0.468	0.801	1.234
0.25	0.125	1.240	2.122	3.355
0.50	0.375	2.537	4.341	7.696
0.75	0.625	4.286	7.333	15.029
1.00	0.875	9.656	16.521	31.550
1.25	1.125	8.047	13.768	45.318
1.50	1.375	9.473	16.208	61.526
1.75	1.625	7.228	12.367	73.893
2.00	1.875	5.806	9.934	83.826
2.25	2.125	3.656	6.255	90.082
2.50	2.375	2.321	3.971	94.053
2.75	2.625	2.039	3.489	97.541
3.00	2.875	1.061	1.815	99.357
3.25	3.125	0.297	0.508	99.865
3.50	3.375	0.066	0.113	99.978
3.75	3.625	0.011	0.019	99.997
4.00	3.875	0.001	0.002	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.3625	phi	(0.3889 mm)
Standard Dev:	0.6582	phi-units	(0.6337 mm)
Skewness:	0.2381	dimensionless	
Kurtosis:	3.0228	dimensionless	
5th Moment:	1.0699	dimensionless	
6th Moment:	15.6423	dimensionless	
RARD *	0.4831	dimensionless	
Median	1.1972	phi	(0.4361 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

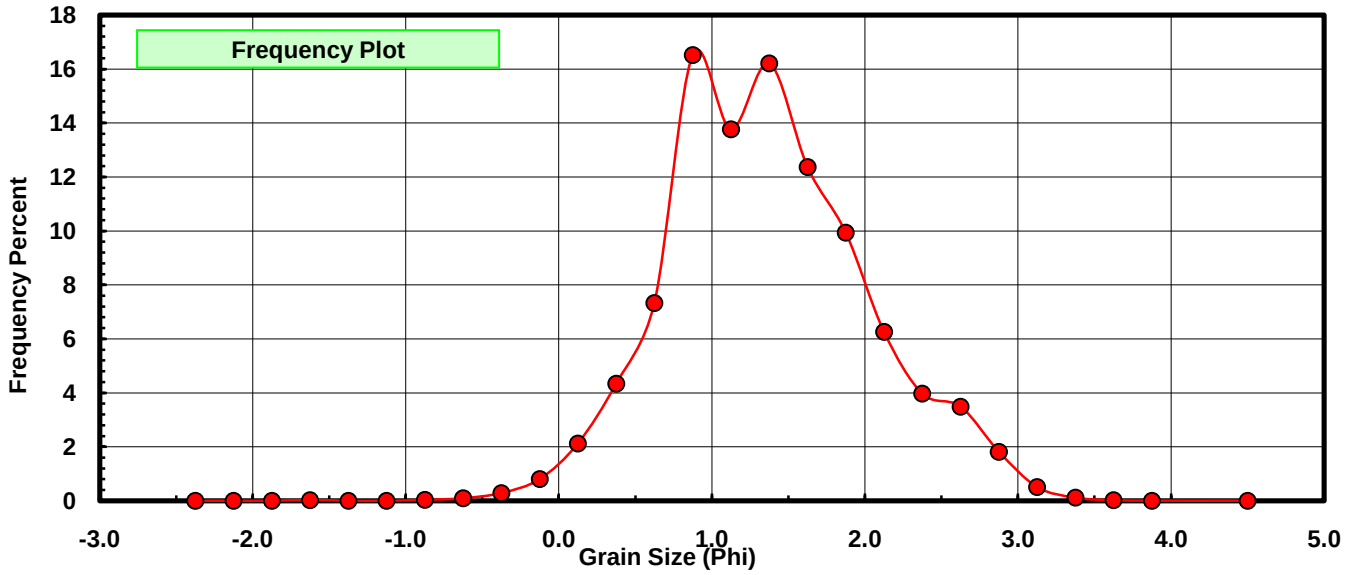
Statistical Explanation

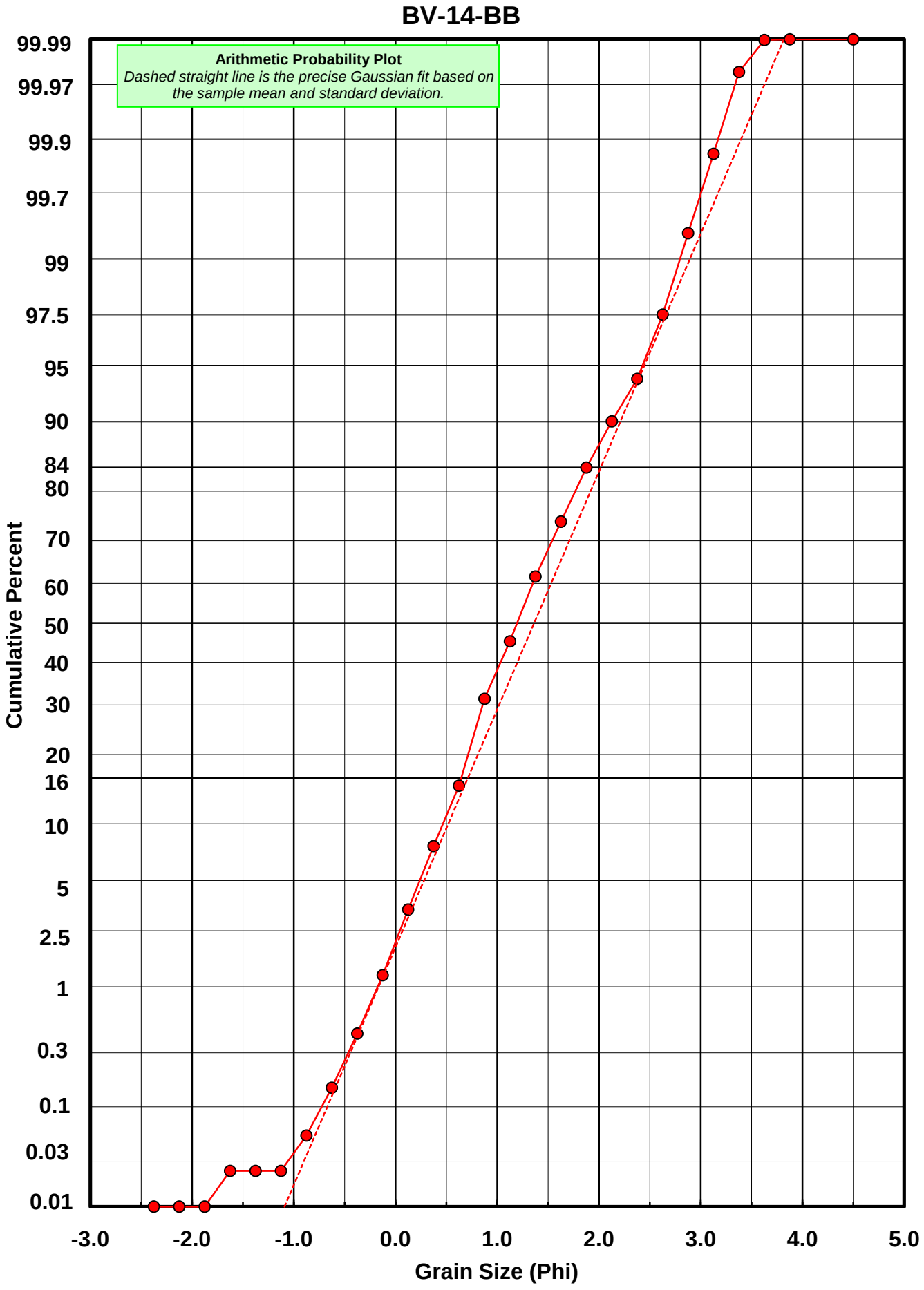
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




BV-14-BB
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: BV-14-BB

Total Carbonate Mass: 14.982 grams

% Carbonate: 25.6 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.014	0.093	0.093
-1.25	-1.375	0.000	0.000	0.093
-1.00	-1.125	0.000	0.000	0.093
-0.75	-0.875	0.018	0.120	0.214
-0.50	-0.625	0.054	0.360	0.574
-0.25	-0.375	0.163	1.088	1.662
0.00	-0.125	0.398	2.657	4.319
0.25	0.125	0.801	5.346	9.665
0.50	0.375	1.315	8.777	18.442
0.75	0.625	1.609	10.740	29.182
1.00	0.875	3.347	22.340	51.522
1.25	1.125	2.317	15.465	66.987
1.50	1.375	2.518	16.807	83.794
1.75	1.625	0.919	6.134	89.928
2.00	1.875	0.686	4.579	94.507
2.25	2.125	0.606	4.045	98.552
2.50	2.375	0.039	0.260	98.812
2.75	2.625	0.038	0.254	99.066
3.00	2.875	0.102	0.681	99.746
3.25	3.125	0.028	0.187	99.933
3.50	3.375	0.009	0.060	99.993
3.75	3.625	0.001	0.007	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:	1.0071	phi	(0.4976 mm)
Standard Dev:	0.6144	phi-units	(0.6532 mm)
Skewness:	0.1152	dimensionless	
Kurtosis:	3.6690	dimensionless	
5th Moment:	1.1896	dimensionless	
6th Moment:	26.8099	dimensionless	
RARD *	0.6100	dimensionless	
Median	0.8580	phi	(0.5517 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	
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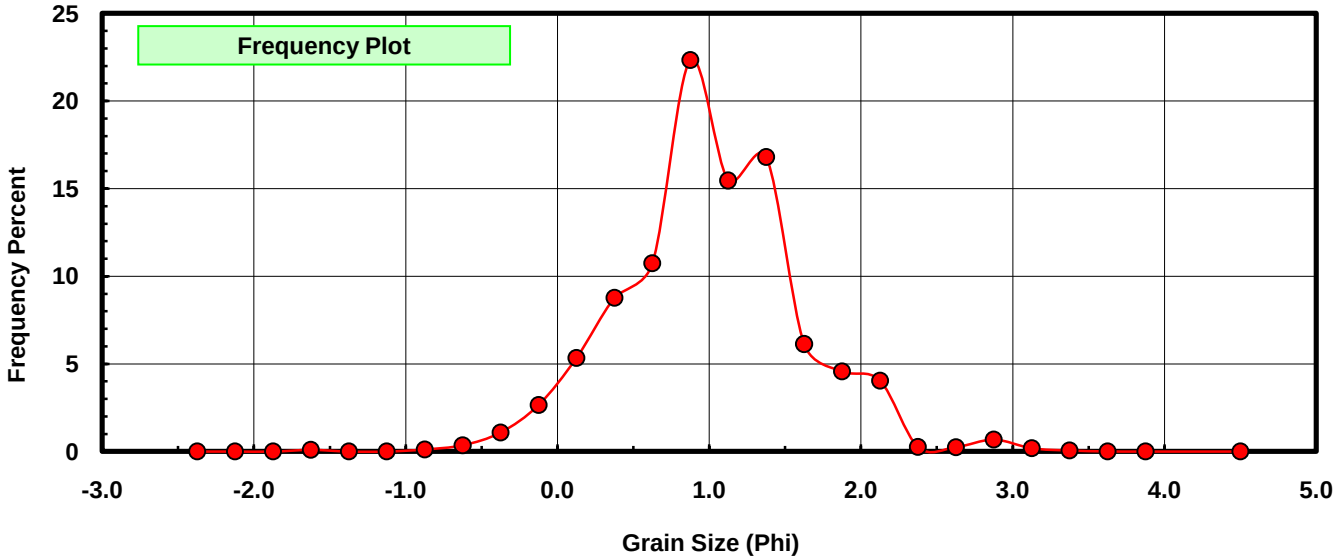

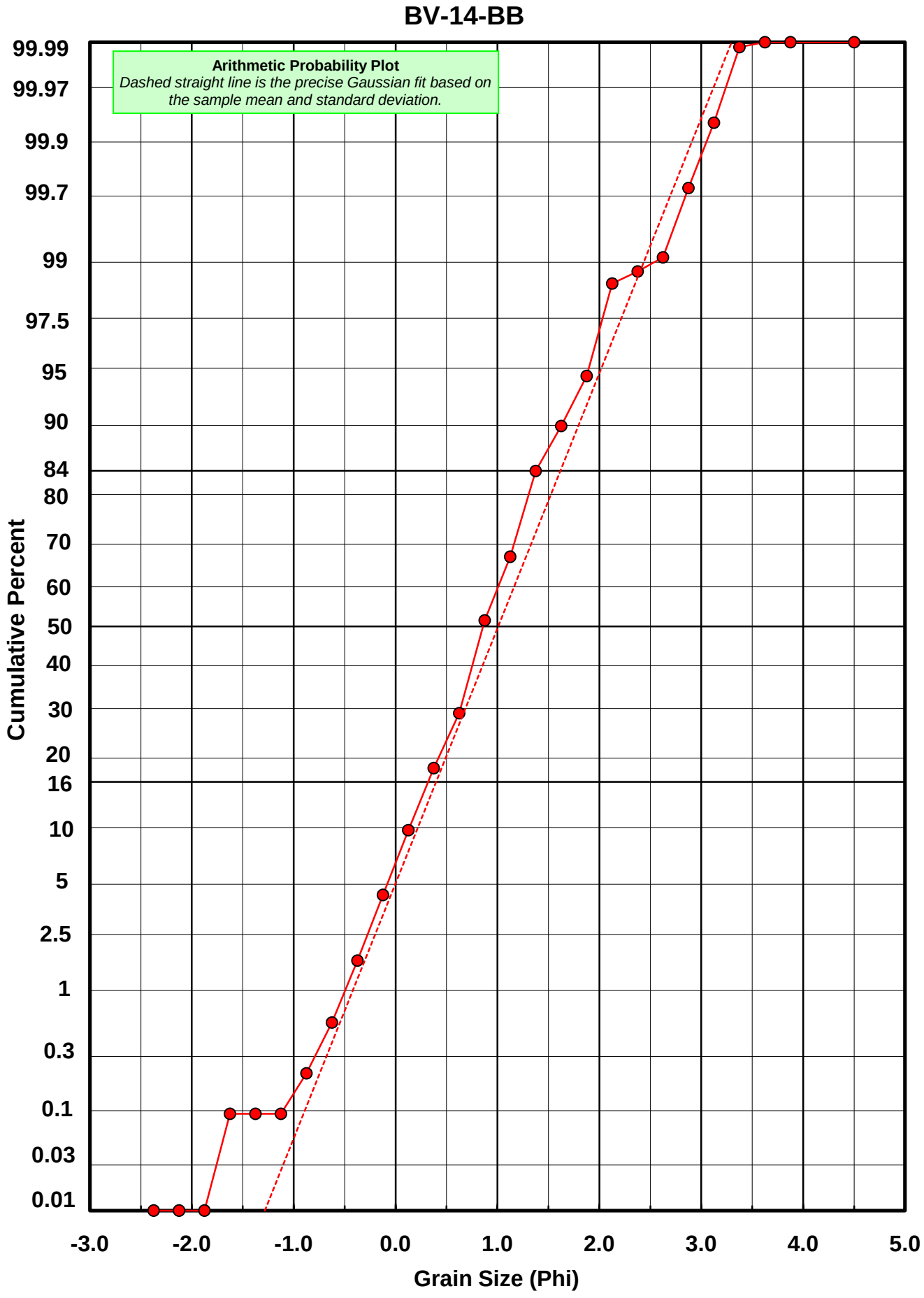
BV-14-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
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99
97.5
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16
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5
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: BV-14-BB

Total Digested Mass: 43.471 grams

% Silica: 74.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-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	0.004	0.009	0.009
0.00	-0.125	0.070	0.161	0.170
0.25	0.125	0.439	1.010	1.180
0.50	0.375	1.222	2.811	3.991
0.75	0.625	2.677	6.158	10.149
1.00	0.875	6.309	14.513	24.662
1.25	1.125	5.730	13.181	37.844
1.50	1.375	6.955	15.999	53.843
1.75	1.625	6.309	14.513	68.356
2.00	1.875	5.120	11.778	80.134
2.25	2.125	3.050	7.016	87.150
2.50	2.375	2.282	5.249	92.400
2.75	2.625	2.001	4.603	97.003
3.00	2.875	0.959	2.206	99.209
3.25	3.125	0.269	0.619	99.827
3.50	3.375	0.057	0.131	99.959
3.75	3.625	0.010	0.023	99.982
4.00	3.875	0.001	0.002	99.984
5.00	4.500	0.007	0.016	100.000

Statistical Results			
Mean:	1.4854	phi	(0.3571 mm)
Standard Dev:	0.6349	phi-units	(0.644 mm)
Skewness:	0.3327	dimensionless	
Kurtosis:	2.7268	dimensionless	
5th Moment:	2.3954	dimensionless	
6th Moment:	12.4871	dimensionless	
RARD *	0.4274	dimensionless	
Median	1.3150	phi	(0.4019 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

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

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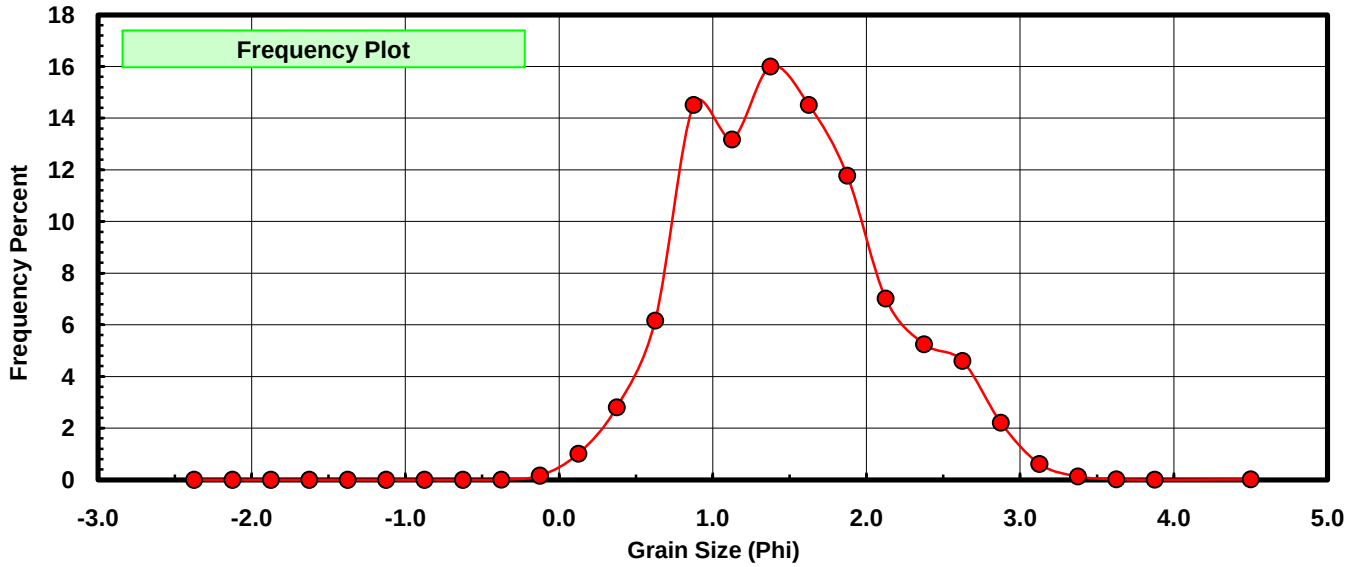
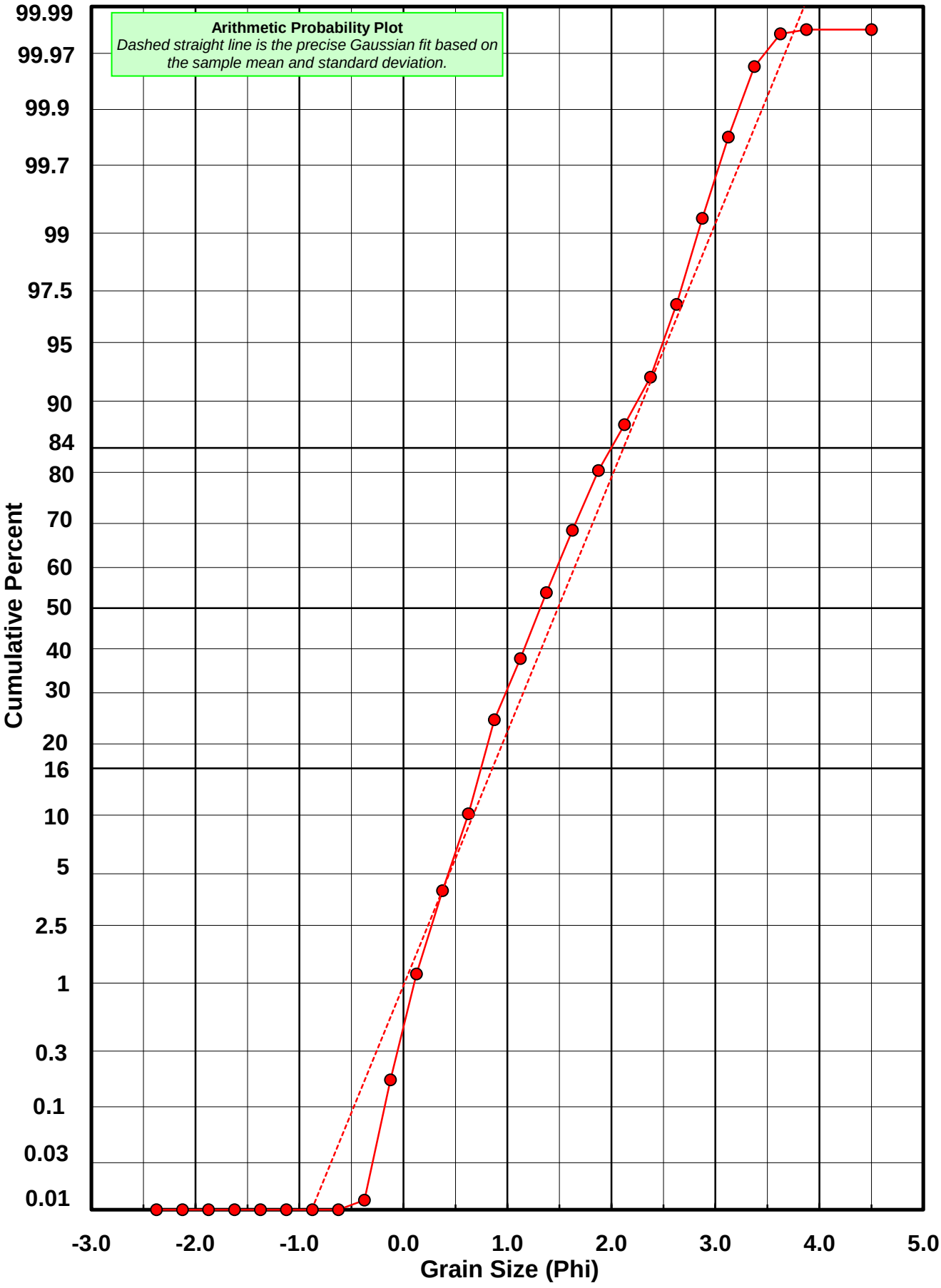


BV-14-BB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0.03
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-2.0
-1.0
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3.0
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5.0
Grain Size (Phi)