Onshore Grab Sample

Sample: BV-45-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/28/08
Splits? N/A

County: Brevard
Latitude: 28° 16' 42.6"
Longitude: 80° 36' 21.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	56.873	grams
Total Fines in Sample	0.113	grams
Total Percent Fines	0.20	%

Dry Sieving Summary

Total Sample Weight	56.708	grams
Total Digested Weight	45.201	grams
Total Carbonate Weight	11.507	grams
Total Silica %	79.71	%
Total Carbonate %	20.29	%
Carbonate/Silica Ratio	0.255	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-45-BB

Total Sample Mass: 56.708 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	0.000	0.000	0.000
-1.25	-1.375	0.018	0.032	0.032
-1.00	-1.125	0.000	0.000	0.032
-0.75	-0.875	0.000	0.000	0.032
-0.50	-0.625	0.038	0.067	0.099
-0.25	-0.375	0.032	0.056	0.155
0.00	-0.125	0.046	0.081	0.236
0.25	0.125	0.077	0.136	0.372
0.50	0.375	0.181	0.319	0.691
0.75	0.625	0.514	0.906	1.598
1.00	0.875	2.834	4.998	6.595
1.25	1.125	5.620	9.910	16.506
1.50	1.375	12.500	22.043	38.548
1.75	1.625	15.704	27.693	66.241
2.00	1.875	12.443	21.942	88.183
2.25	2.125	4.961	8.748	96.932
2.50	2.375	1.106	1.950	98.882
2.75	2.625	0.403	0.711	99.593
3.00	2.875	0.178	0.314	99.907
3.25	3.125	0.037	0.065	99.972
3.50	3.375	0.009	0.016	99.988
3.75	3.625	0.003	0.005	99.993
4.00	3.875	0.001	0.002	99.995
5.00	4.50	0.003	0.005	100.000

Statistical Results			
Mean:	1.5886	phi	(0.3325 mm)
Standard Dev:	0.3968	phi-units	(0.7595 mm)
Skewness:	-0.3933	dimensionless	
Kurtosis:	5.6791	dimensionless	
5th Moment:	-12.5090	dimensionless	
6th Moment:	121.8136	dimensionless	
RARD *	0.2498	dimensionless	
Median	1.4784	phi	(0.3589 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

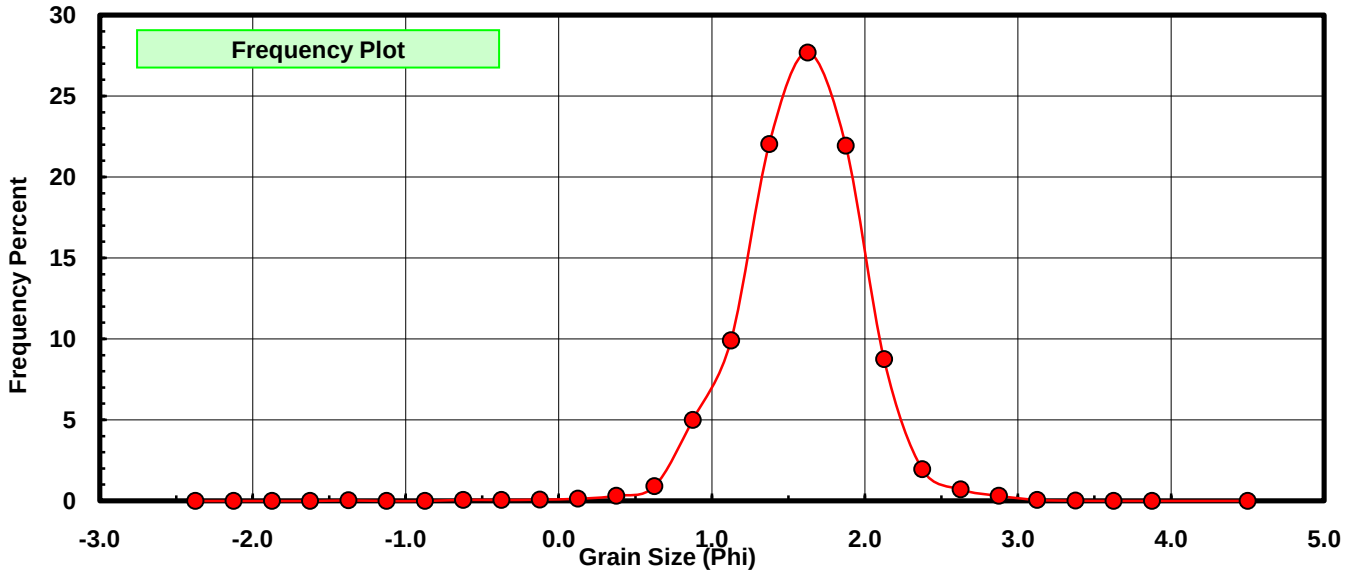
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

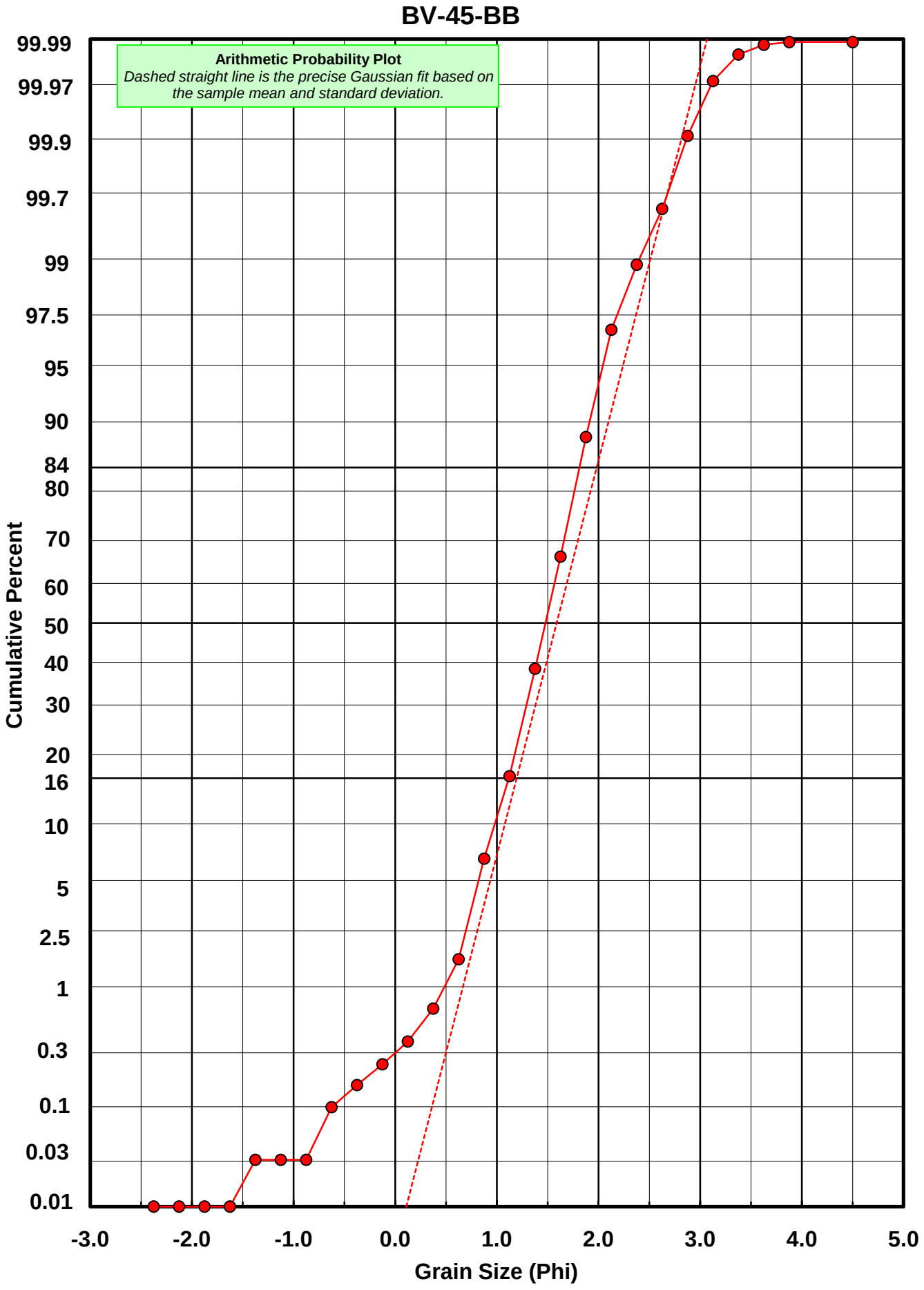
For Further Explanation, See Basillle et al. 2002

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-45-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-45-BB

Total Carbonate Mass: 11.518 grams

% Carbonate: 20.3 %

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	0.018	0.156	0.156
-1.00	-1.125	0.000	0.000	0.156
-0.75	-0.875	0.000	0.000	0.156
-0.50	-0.625	0.038	0.330	0.486
-0.25	-0.375	0.021	0.182	0.669
0.00	-0.125	0.039	0.339	1.007
0.25	0.125	0.058	0.504	1.511
0.50	0.375	0.136	1.181	2.691
0.75	0.625	0.329	2.856	5.548
1.00	0.875	1.111	9.646	15.194
1.25	1.125	1.396	12.120	27.314
1.50	1.375	2.765	24.006	51.320
1.75	1.625	2.628	22.816	74.136
2.00	1.875	1.787	15.515	89.651
2.25	2.125	0.919	7.979	97.630
2.50	2.375	0.217	1.884	99.514
2.75	2.625	0.046	0.399	99.913
3.00	2.875	0.008	0.069	99.983
3.25	3.125	0.002	0.017	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	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:	1.4574	phi	(0.3641 mm)
Standard Dev:	0.4952	phi-units	(0.7094 mm)
Skewness:	-0.8758	dimensionless	
Kurtosis:	5.6159	dimensionless	
5th Moment:	-18.4803	dimensionless	
6th Moment:	96.3077	dimensionless	
RARD *	0.3398	dimensionless	
Median	1.3613	phi	(0.3892 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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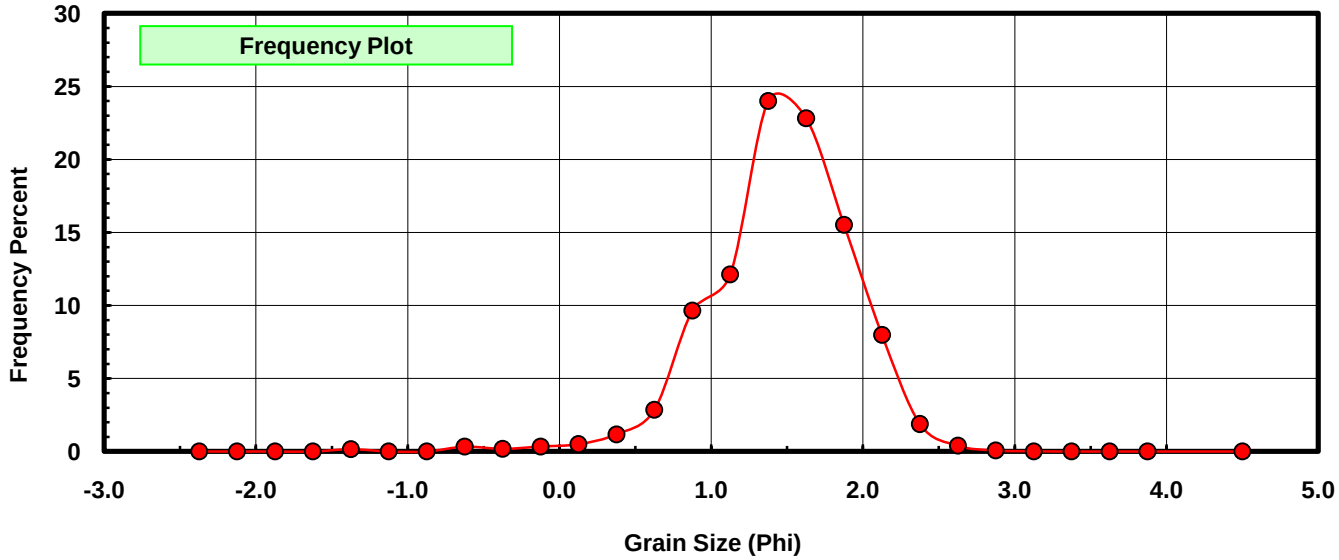

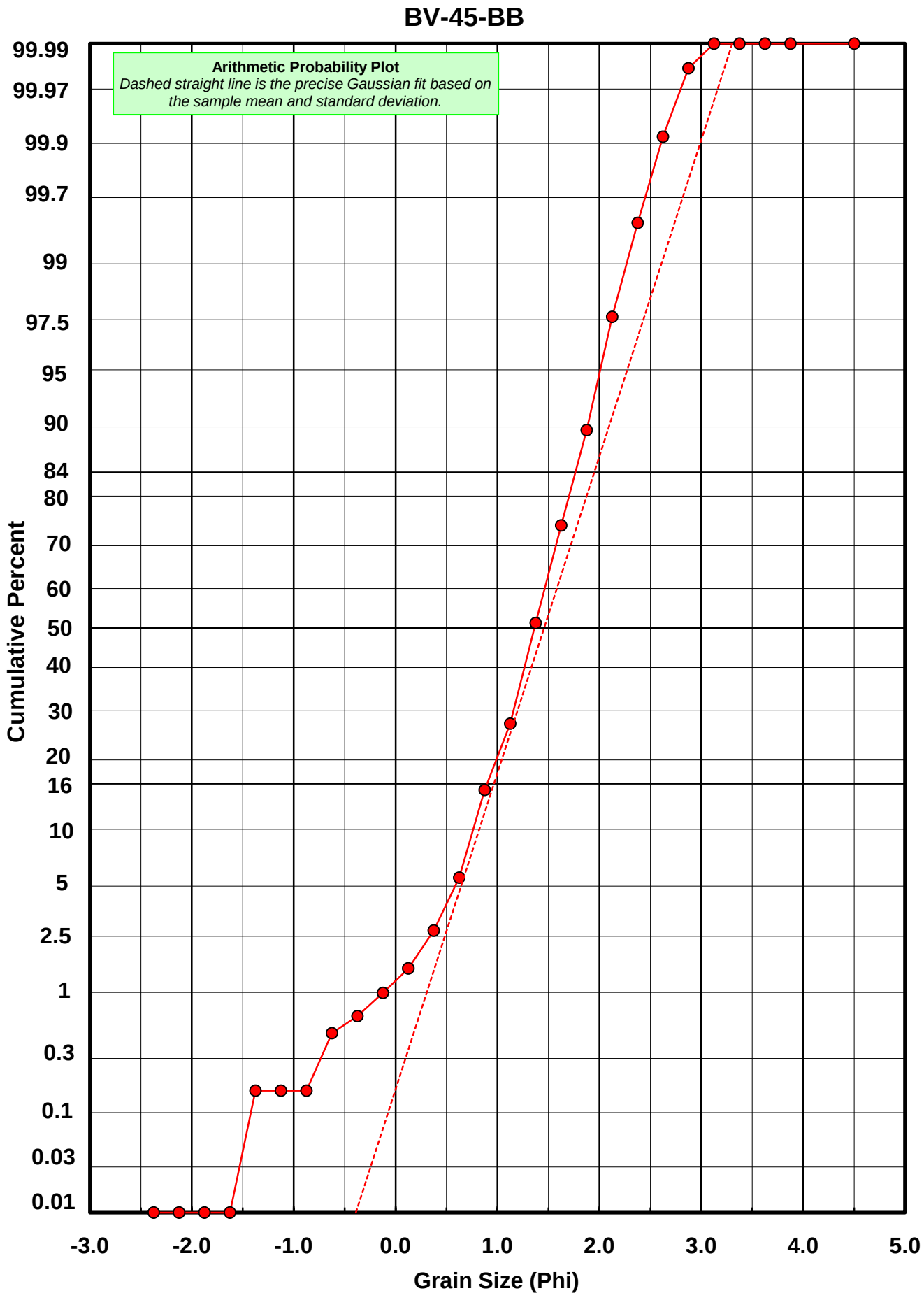
BV-45-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
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16
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2.5
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0.3
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-45-BB

Total Digested Mass: 45.201 grams

% Silica: 79.7 %

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	0.011	0.024	0.024
0.00	-0.125	0.007	0.015	0.040
0.25	0.125	0.019	0.042	0.082
0.50	0.375	0.045	0.100	0.181
0.75	0.625	0.185	0.409	0.591
1.00	0.875	1.723	3.812	4.403
1.25	1.125	4.224	9.345	13.747
1.50	1.375	9.735	21.537	35.285
1.75	1.625	13.076	28.929	64.213
2.00	1.875	10.656	23.575	87.788
2.25	2.125	4.042	8.942	96.730
2.50	2.375	0.889	1.967	98.697
2.75	2.625	0.357	0.790	99.487
3.00	2.875	0.170	0.376	99.863
3.25	3.125	0.035	0.077	99.940
3.50	3.375	0.013	0.029	99.969
3.75	3.625	0.006	0.013	99.982
4.00	3.875	0.003	0.007	99.989
5.00	4.500	0.005	0.011	100.000

Statistical Results			
Mean:	1.6225	phi	(0.3248 mm)
Standard Dev:	0.3683	phi-units	(0.7747 mm)
Skewness:	0.1358	dimensionless	
Kurtosis:	4.4812	dimensionless	
5th Moment:	5.3800	dimensionless	
6th Moment:	67.7792	dimensionless	
RARD *	0.2270	dimensionless	
Median	1.5022	phi	(0.353 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

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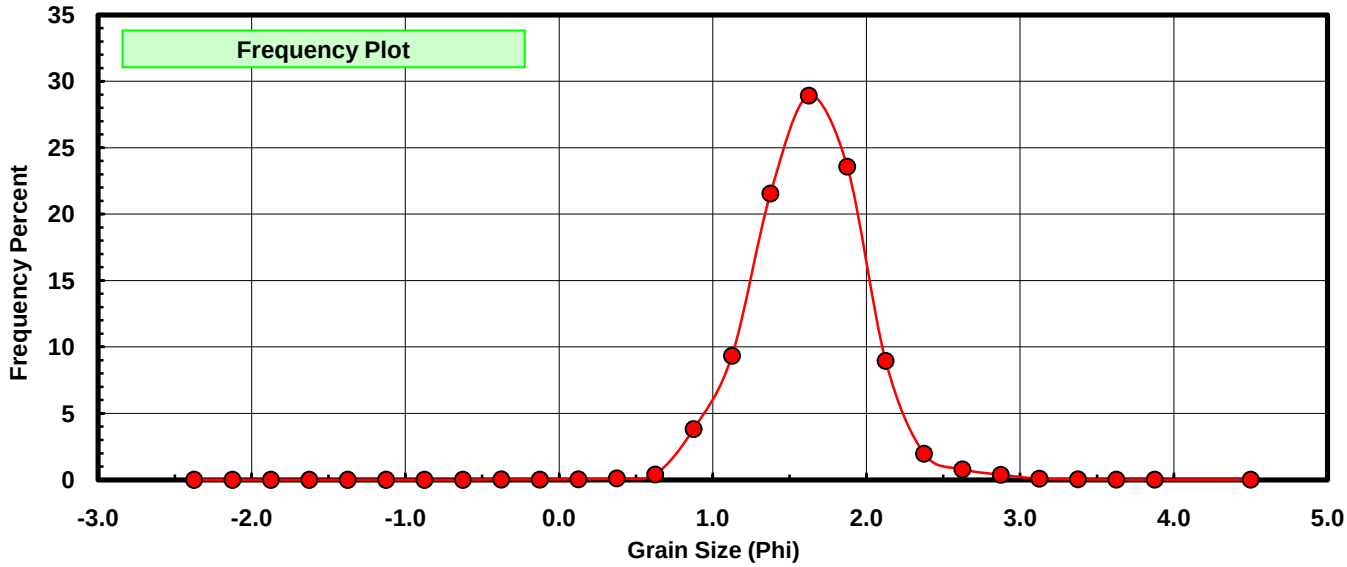
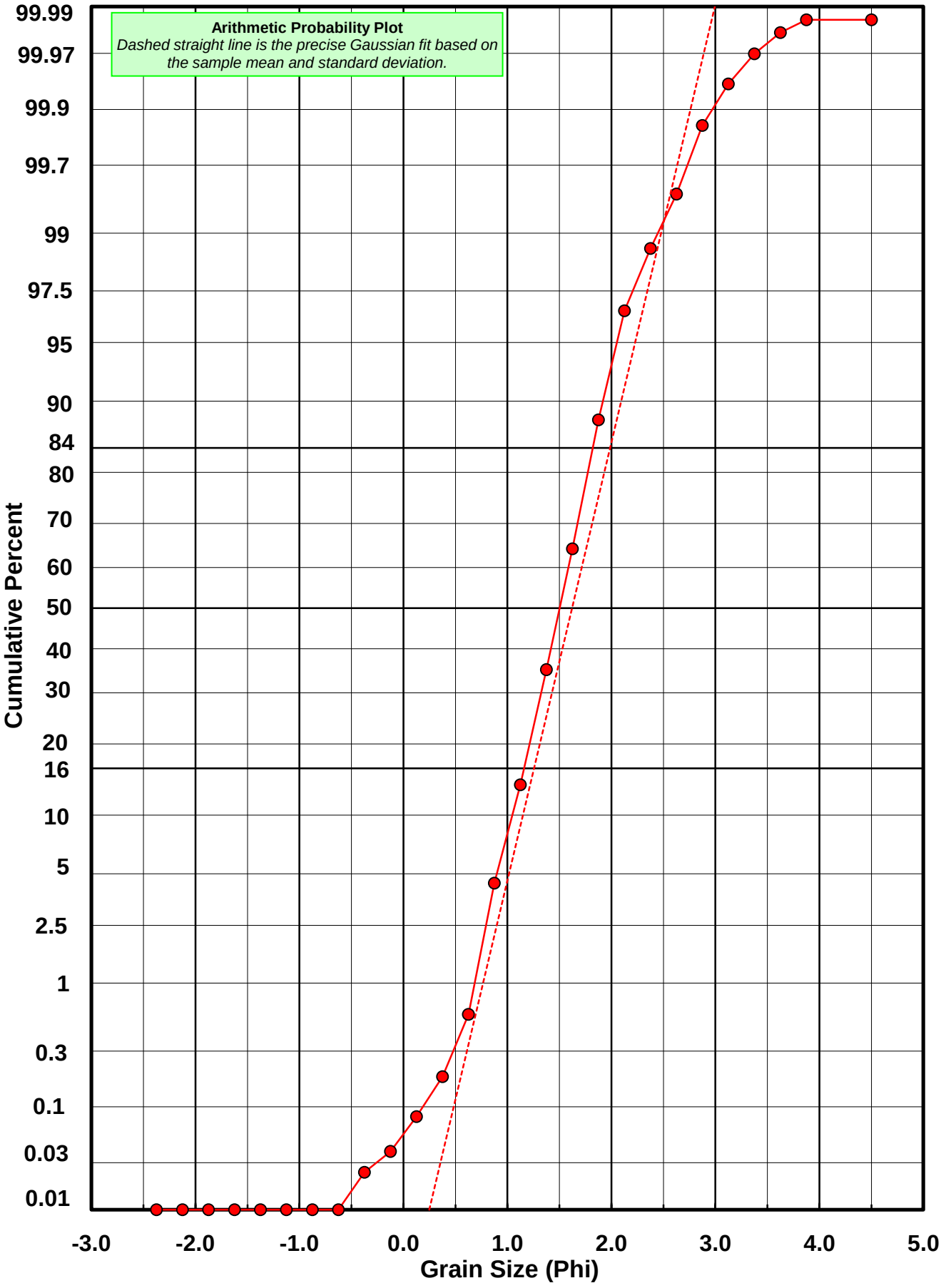


BV-45-BB


Arithmetic Probability Plot
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-2.0
-1.0
0.0
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2.0
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5.0
Grain Size (Phi)