Onshore Grab Sample

Sample: BV-25-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/18/09
Splits? N/A

County: Brevard
Latitude: 28° 29' 52.1"
Longitude: 80° 32' 44.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	69.232	grams
Total Fines in Sample	0.484	grams
Total Percent Fines	0.69	%

Dry Sieving Summary

Total Sample Weight	68.684	grams
Total Digested Weight	49.802	grams
Total Carbonate Weight	18.882	grams
Total Silica %	72.51	%
Total Carbonate %	27.49	%
Carbonate/Silica Ratio	0.379	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-25-BB

Total Sample Mass: 68.684 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	0.065	0.095	0.095
-1.25	-1.375	0.000	0.000	0.095
-1.00	-1.125	0.090	0.131	0.226
-0.75	-0.875	0.067	0.098	0.323
-0.50	-0.625	0.196	0.285	0.609
-0.25	-0.375	0.262	0.381	0.990
0.00	-0.125	0.457	0.665	1.655
0.25	0.125	0.885	1.289	2.944
0.50	0.375	1.882	2.740	5.684
0.75	0.625	3.943	5.741	11.425
1.00	0.875	11.156	16.243	27.667
1.25	1.125	9.559	13.917	41.585
1.50	1.375	11.696	17.029	58.613
1.75	1.625	9.263	13.486	72.100
2.00	1.875	7.142	10.398	82.498
2.25	2.125	4.894	7.125	89.623
2.50	2.375	3.083	4.489	94.112
2.75	2.625	2.225	3.239	97.352
3.00	2.875	1.147	1.670	99.022
3.25	3.125	0.445	0.648	99.670
3.50	3.375	0.165	0.240	99.910
3.75	3.625	0.050	0.073	99.983
4.00	3.875	0.006	0.009	99.991
5.00	4.50	0.006	0.009	100.000

Statistical Results			
Mean:	1.4096	phi	(0.3764 mm)
Standard Dev:	0.6604	phi-units	(0.6327 mm)
Skewness:	0.0323	dimensionless	
Kurtosis:	3.8363	dimensionless	
5th Moment:	-2.2484	dimensionless	
6th Moment:	31.1792	dimensionless	
RARD *	0.4685	dimensionless	
Median	1.2485	phi	(0.4209 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

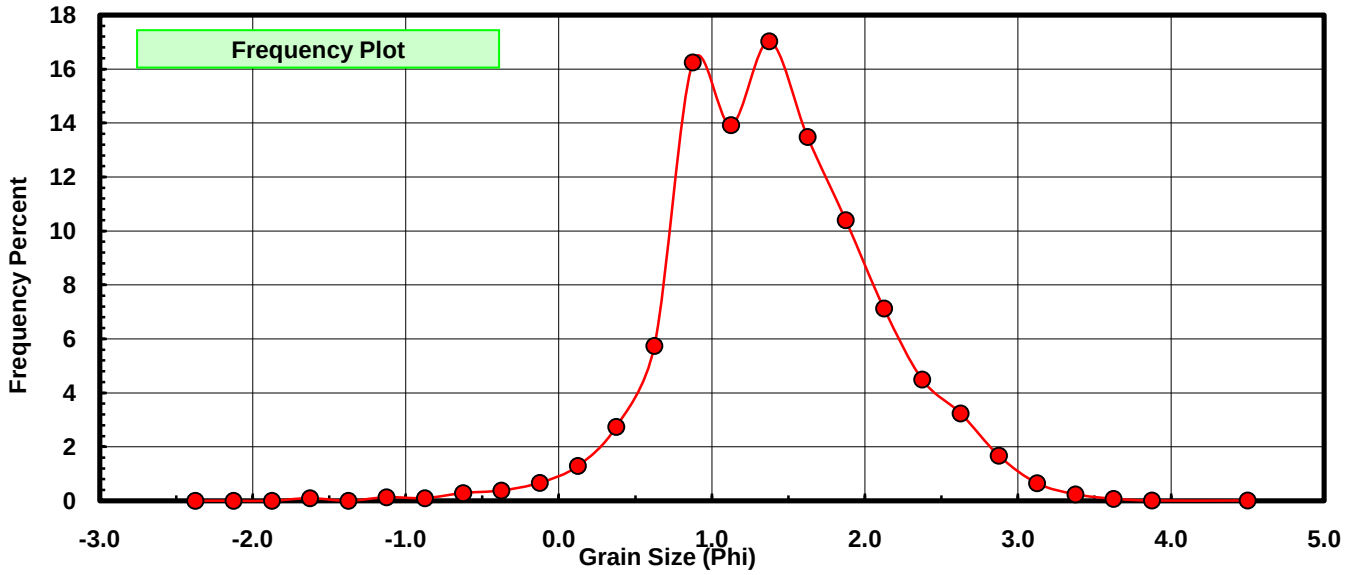
Statistical Explanation

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

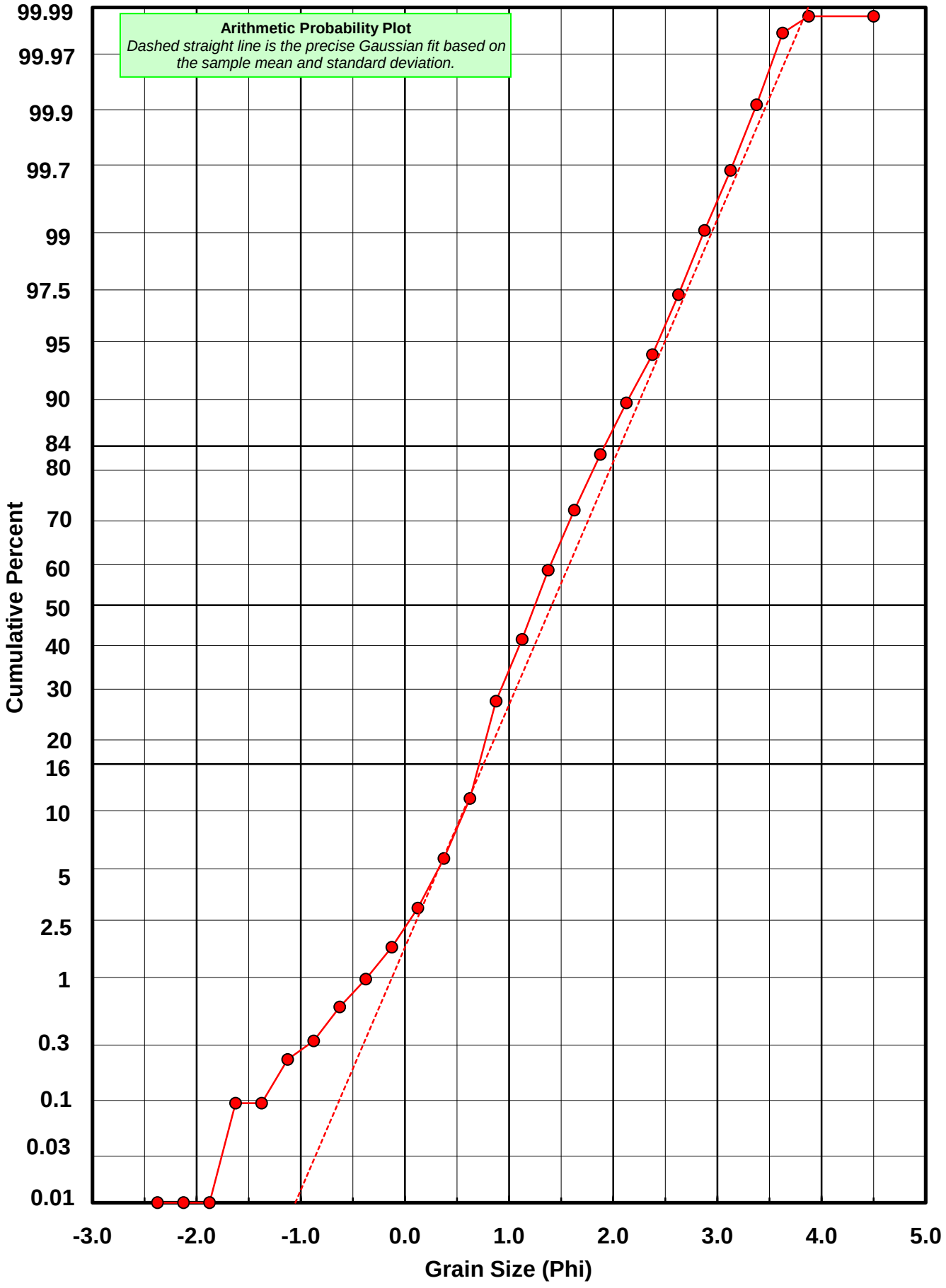
For Further Explanation, See Basillle et al. 2002

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-25-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-25-BB

Total Carbonate Mass: 18.887 grams

% Carbonate: 27.5 %

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	0.065	0.344	0.344
-1.25	-1.375	0.000	0.000	0.344
-1.00	-1.125	0.090	0.477	0.821
-0.75	-0.875	0.067	0.355	1.175
-0.50	-0.625	0.175	0.927	2.102
-0.25	-0.375	0.239	1.265	3.367
0.00	-0.125	0.344	1.821	5.189
0.25	0.125	0.615	3.256	8.445
0.50	0.375	0.960	5.083	13.528
0.75	0.625	1.455	7.704	21.232
1.00	0.875	4.147	21.957	43.188
1.25	1.125	3.004	15.905	59.094
1.50	1.375	3.291	17.425	76.518
1.75	1.625	1.835	9.716	86.234
2.00	1.875	1.251	6.624	92.858
2.25	2.125	0.804	4.257	97.114
2.50	2.375	0.315	1.668	98.782
2.75	2.625	0.118	0.625	99.407
3.00	2.875	0.056	0.297	99.703
3.25	3.125	0.029	0.154	99.857
3.50	3.375	0.017	0.090	99.947
3.75	3.625	0.009	0.048	99.995
4.00	3.875	0.001	0.005	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1019	phi	(0.4659 mm)
Standard Dev:	0.6672	phi-units	(0.6297 mm)
Skewness:	-0.4764	dimensionless	
Kurtosis:	4.5381	dimensionless	
5th Moment:	-6.5272	dimensionless	
6th Moment:	40.3122	dimensionless	
RARD *	0.6055	dimensionless	
Median	0.9821	phi	(0.5063 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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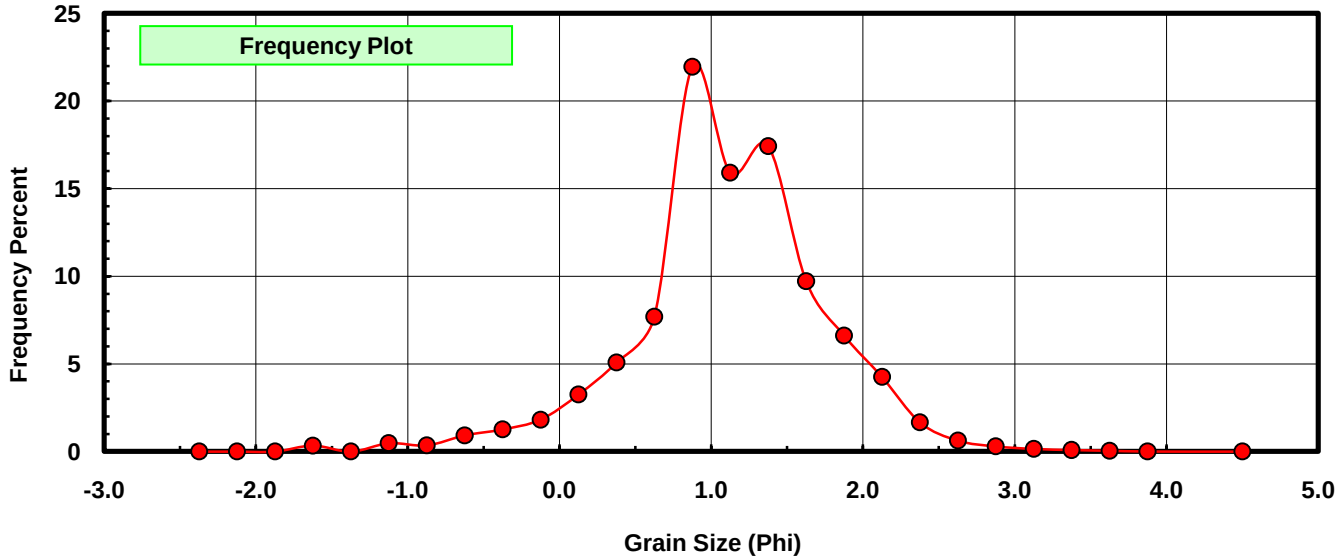

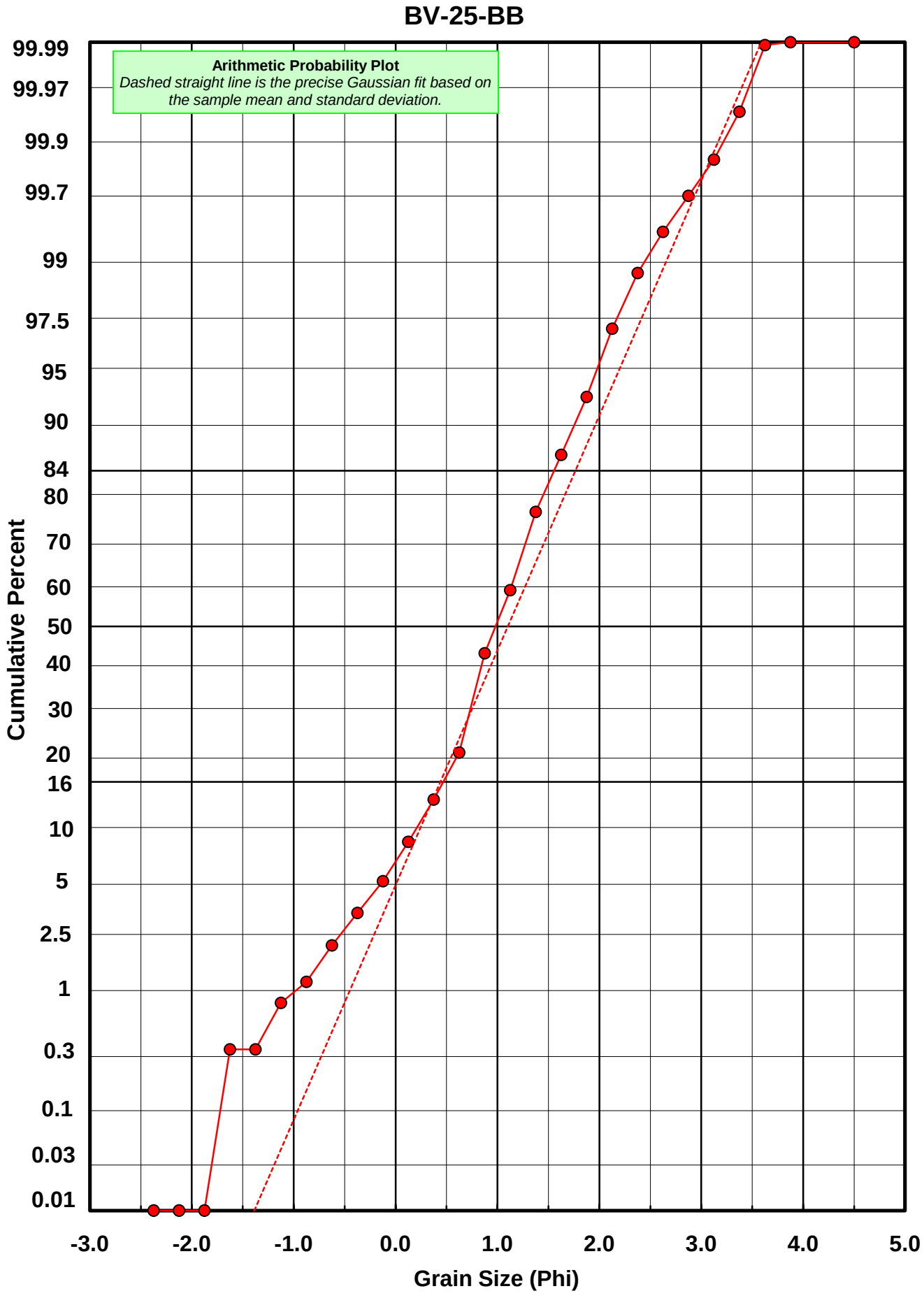
BV-25-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
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84
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50
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30
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: BV-25-BB

Total Digested Mass: 49.802 grams

% Silica: 72.5 %

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	0.021	0.042	0.042
-0.25	-0.375	0.023	0.046	0.088
0.00	-0.125	0.113	0.227	0.315
0.25	0.125	0.270	0.542	0.857
0.50	0.375	0.922	1.851	2.709
0.75	0.625	2.488	4.996	7.705
1.00	0.875	7.009	14.074	21.778
1.25	1.125	6.555	13.162	34.940
1.50	1.375	8.405	16.877	51.817
1.75	1.625	7.428	14.915	66.732
2.00	1.875	5.891	11.829	78.561
2.25	2.125	4.090	8.213	86.774
2.50	2.375	2.768	5.558	92.332
2.75	2.625	2.107	4.231	96.562
3.00	2.875	1.091	2.191	98.753
3.25	3.125	0.416	0.835	99.588
3.50	3.375	0.148	0.297	99.886
3.75	3.625	0.041	0.082	99.968
4.00	3.875	0.005	0.010	99.978
5.00	4.500	0.011	0.022	100.000

Statistical Results			
Mean:	1.5266	phi	(0.3471 mm)
Standard Dev:	0.6262	phi-units	(0.6479 mm)
Skewness:	0.3681	dimensionless	
Kurtosis:	2.9735	dimensionless	
5th Moment:	2.8260	dimensionless	
6th Moment:	16.2616	dimensionless	
RARD *	0.4102	dimensionless	
Median	1.3481	phi	(0.3928 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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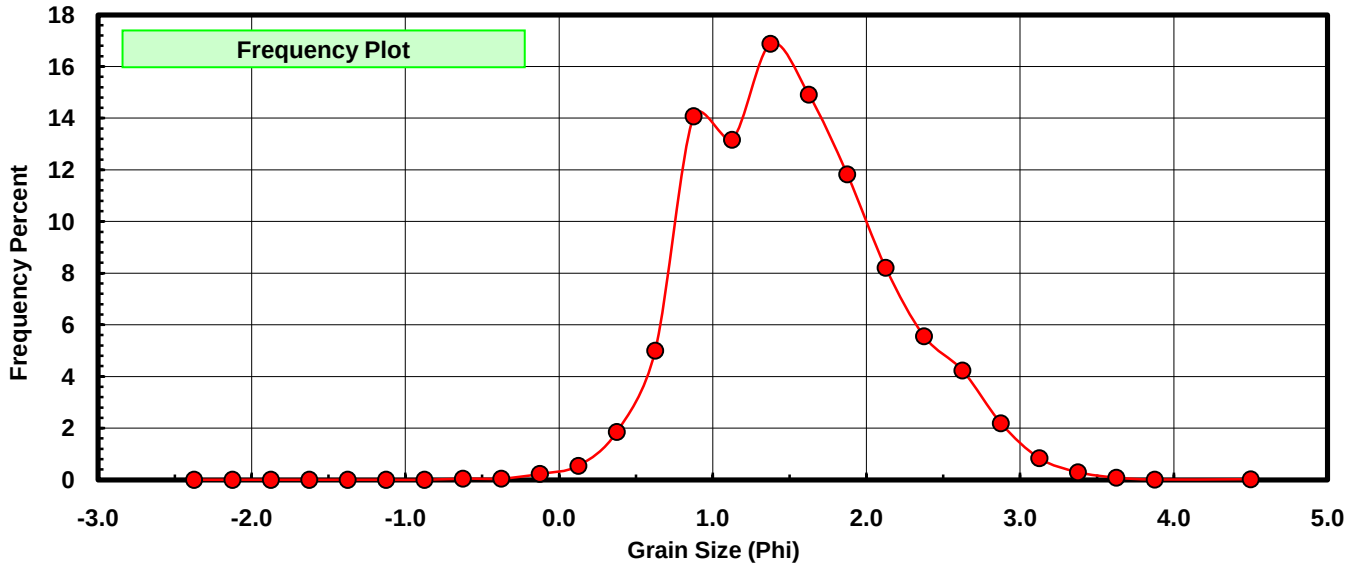

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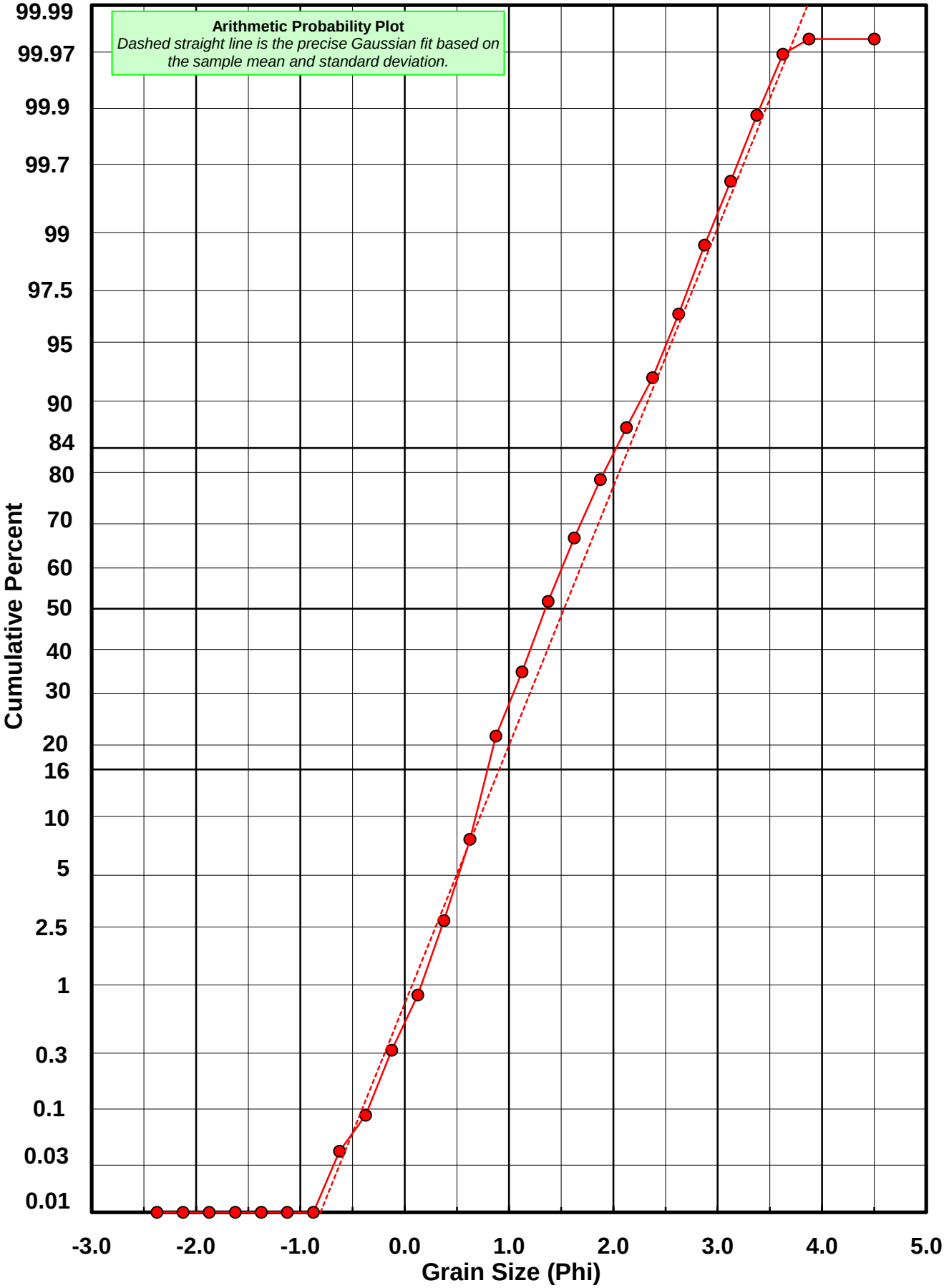
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-1.0
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5.0
Grain Size (Phi)