

Onshore Grab Sample

Sample: BV-05-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/19/09
Splits? N/A

County: Brevard
Latitude: 28° 44' 06.3"
Longitude: 80° 41' 36.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 68.354 grams
Total Fines in Sample 0.169 grams
Total Percent Fines 0.25 %

Dry Sieving Summary

Total Sample Weight 68.086 grams
Total Digested Weight 37.812 grams
Total Carbonate Weight 30.274 grams
Total Silica % 55.54 %
Total Carbonate % 44.46 %
Carbonate/Silica Ratio 0.801

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-05-BB

Total Sample Mass: 68.086 grams

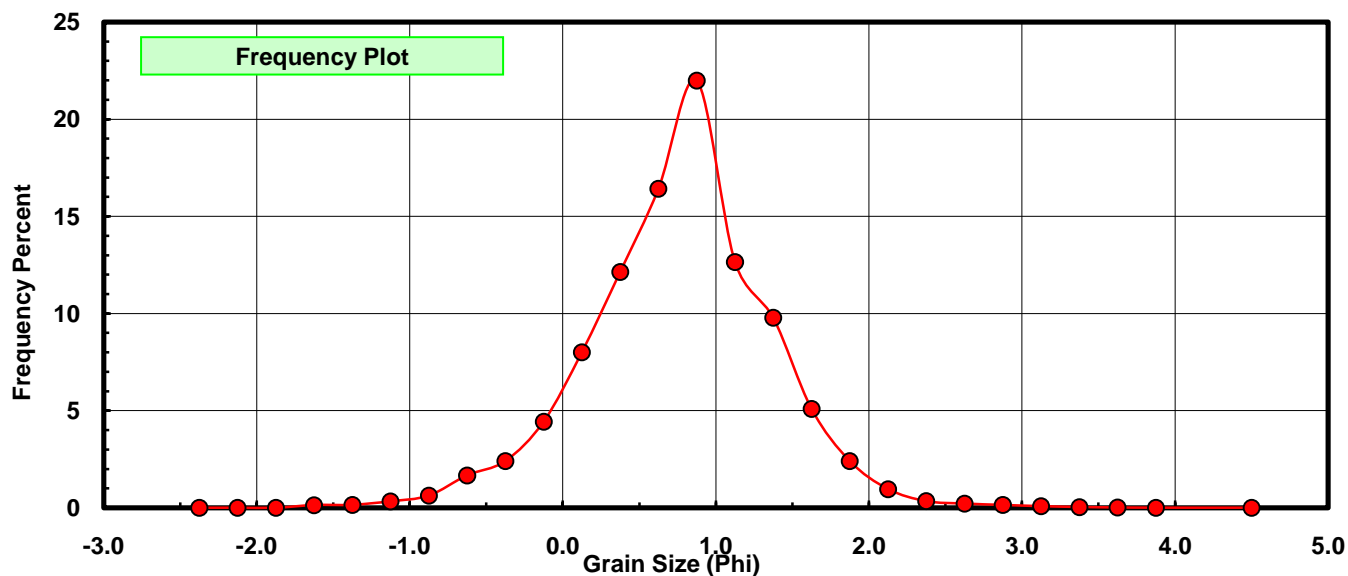
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.094	0.138	0.138
-1.25	-1.375	0.103	0.151	0.289
-1.00	-1.125	0.226	0.332	0.621
-0.75	-0.875	0.426	0.626	1.247
-0.50	-0.625	1.137	1.670	2.917
-0.25	-0.375	1.636	2.403	5.320
0.00	-0.125	3.017	4.431	9.751
0.25	0.125	5.451	8.006	17.757
0.50	0.375	8.263	12.136	29.893
0.75	0.625	11.174	16.412	46.305
1.00	0.875	14.964	21.978	68.283
1.25	1.125	8.609	12.644	80.927
1.50	1.375	6.659	9.780	90.707
1.75	1.625	3.468	5.094	95.801
2.00	1.875	1.636	2.403	98.204
2.25	2.125	0.655	0.962	99.166
2.50	2.375	0.231	0.339	99.505
2.75	2.625	0.146	0.214	99.719
3.00	2.875	0.098	0.144	99.863
3.25	3.125	0.055	0.081	99.944
3.50	3.375	0.026	0.038	99.982
3.75	3.625	0.009	0.013	99.996
4.00	3.875	0.002	0.003	99.999
5.00	4.50	0.001	0.001	100.000

Statistical Results			
Mean:	0.7592	phi	(0.5908 mm)
Standard Dev:	0.6114	phi-units	(0.6546 mm)
Skewness:	-0.1602	dimensionless	
Kurtosis:	4.0503	dimensionless	
5th Moment:	-0.8095	dimensionless	
6th Moment:	32.6369	dimensionless	
RARD *	0.8054	dimensionless	
Median	0.6670	phi	(0.6298 mm)

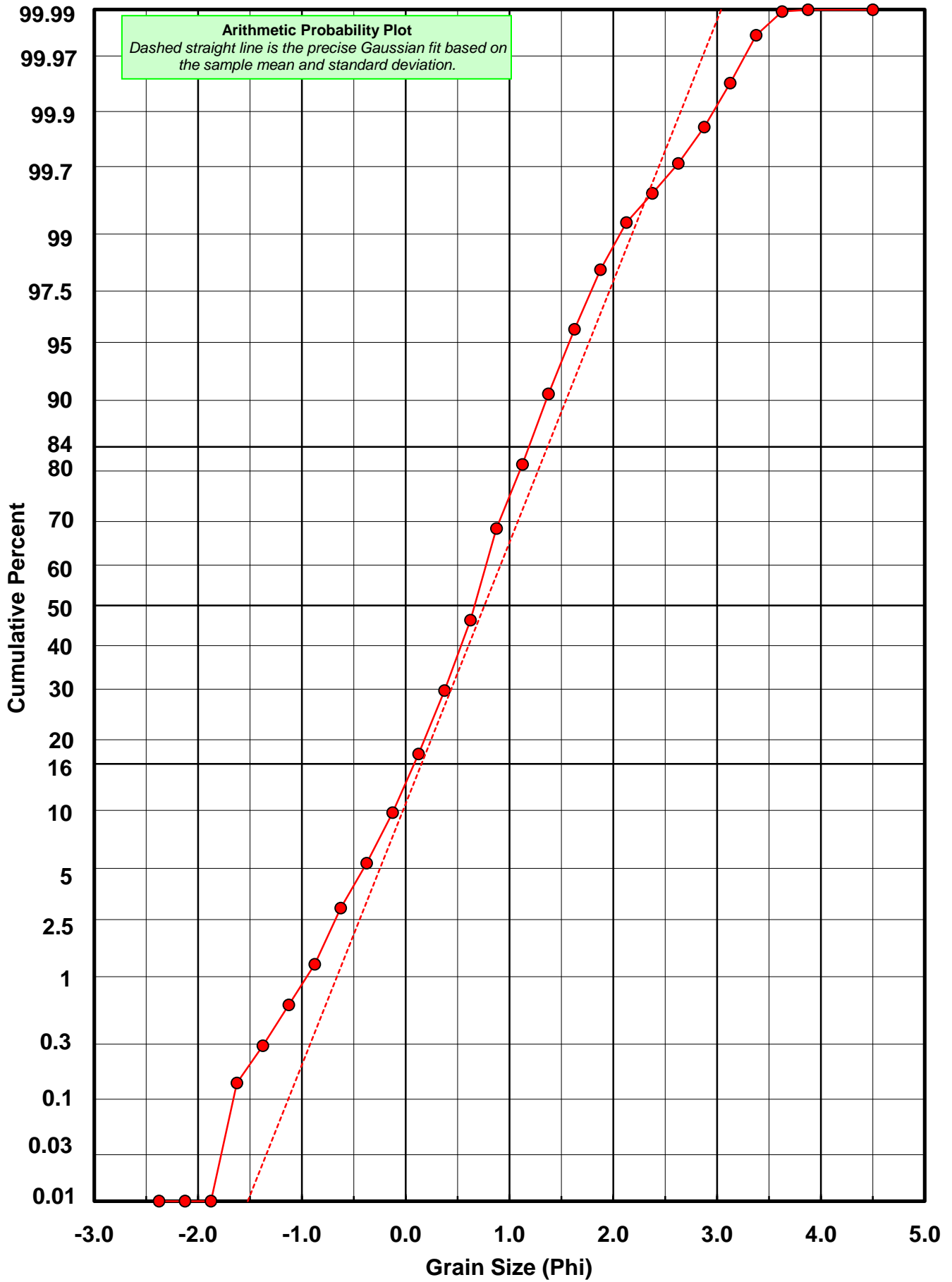
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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-05-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BV-05-BB

Total Carbonate Mass: 30.293 grams

% Carbonate: 44.5 %

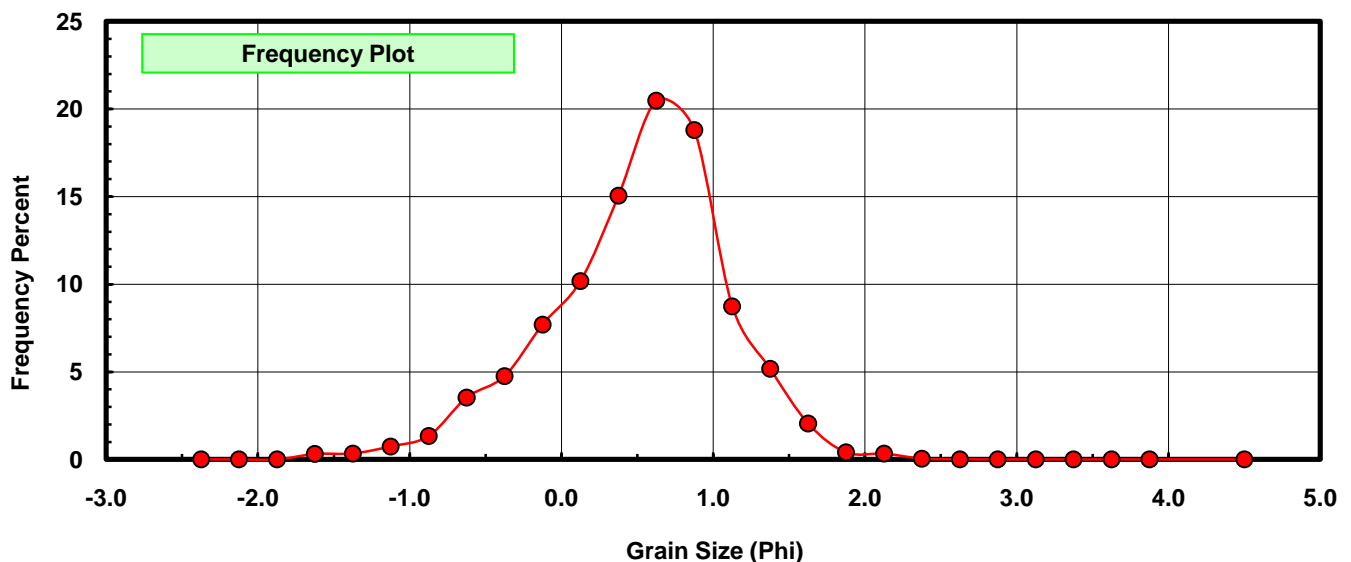
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.094	0.310	0.310
-1.25	-1.375	0.103	0.340	0.650
-1.00	-1.125	0.226	0.746	1.396
-0.75	-0.875	0.406	1.340	2.737
-0.50	-0.625	1.071	3.535	6.272
-0.25	-0.375	1.442	4.760	11.032
0.00	-0.125	2.333	7.701	18.734
0.25	0.125	3.085	10.184	28.918
0.50	0.375	4.559	15.050	43.967
0.75	0.625	6.205	20.483	64.451
1.00	0.875	5.693	18.793	83.244
1.25	1.125	2.649	8.745	91.988
1.50	1.375	1.567	5.173	97.161
1.75	1.625	0.621	2.050	99.211
2.00	1.875	0.122	0.403	99.614
2.25	2.125	0.100	0.330	99.944
2.50	2.375	0.014	0.046	99.990
2.75	2.625	0.003	0.010	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	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:	0.5010	phi	(0.7066 mm)
Standard Dev:	0.5988	phi-units	(0.6603 mm)
Skewness:	-0.4942	dimensionless	
Kurtosis:	3.4543	dimensionless	
5th Moment:	-4.2528	dimensionless	
6th Moment:	21.2914	dimensionless	
RARD *	1.1953	dimensionless	
Median	0.4486	phi	(0.7327 mm)

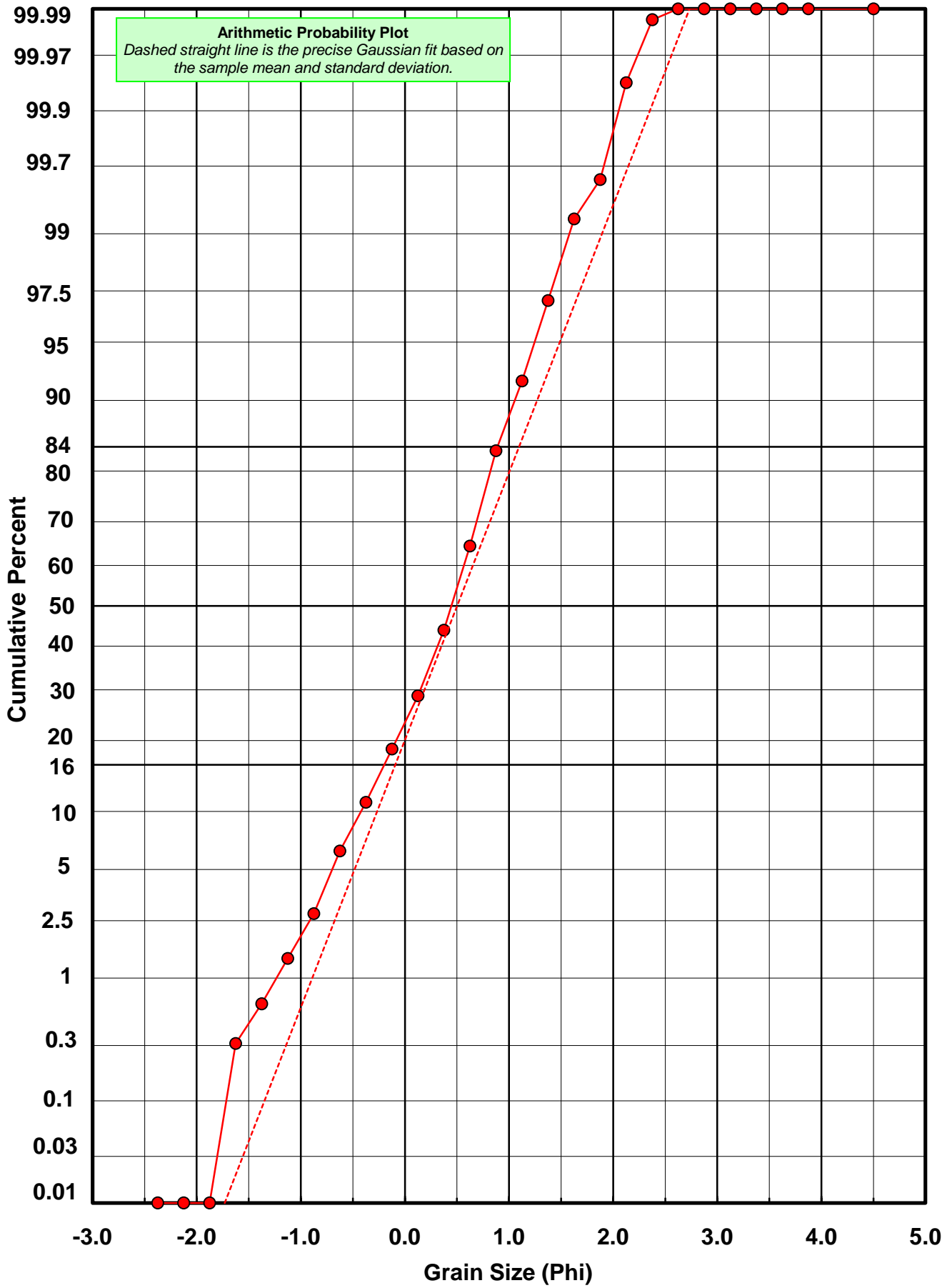
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-\phi)}$	

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BV-05-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-05-BB

Total Digested Mass: 37.812 grams

% Silica: 55.5 %

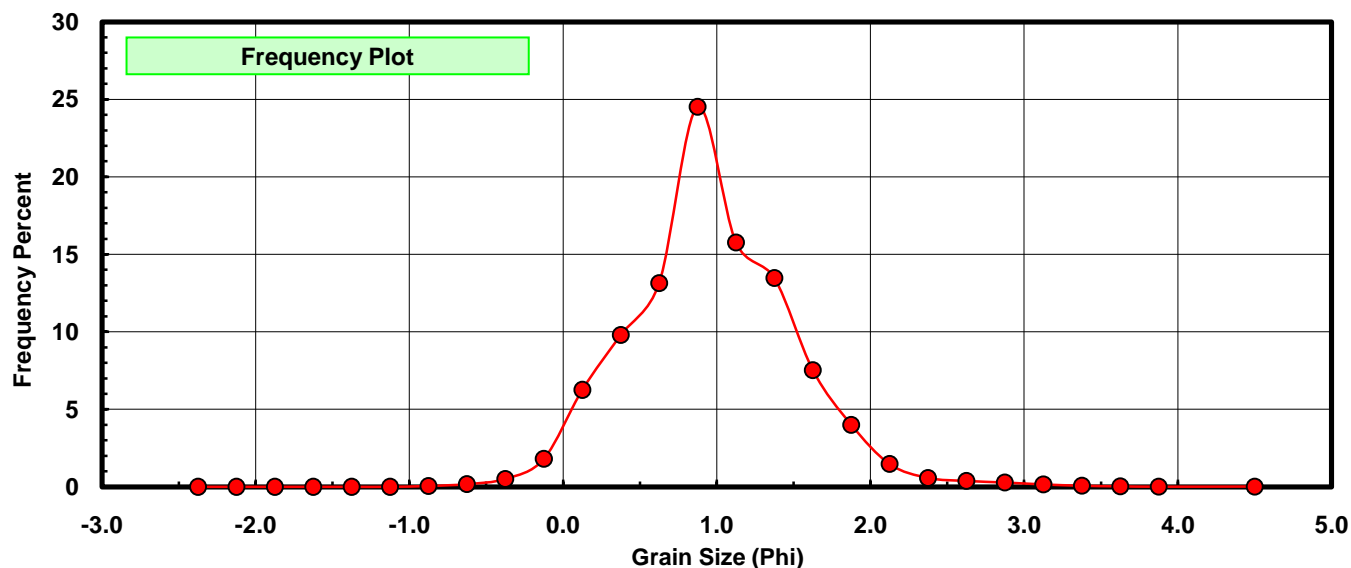
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-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.020	0.053	0.053
-0.50	-0.625	0.066	0.175	0.227
-0.25	-0.375	0.194	0.513	0.741
0.00	-0.125	0.684	1.809	2.549
0.25	0.125	2.366	6.257	8.807
0.50	0.375	3.704	9.796	18.603
0.75	0.625	4.969	13.141	31.744
1.00	0.875	9.271	24.519	56.263
1.25	1.125	5.960	15.762	72.025
1.50	1.375	5.092	13.467	85.491
1.75	1.625	2.847	7.529	93.021
2.00	1.875	1.514	4.004	97.025
2.25	2.125	0.555	1.468	98.493
2.50	2.375	0.217	0.574	99.066
2.75	2.625	0.143	0.378	99.445
3.00	2.875	0.105	0.278	99.722
3.25	3.125	0.058	0.153	99.876
3.50	3.375	0.026	0.069	99.944
3.75	3.625	0.011	0.029	99.974
4.00	3.875	0.003	0.008	99.981
5.00	4.500	0.007	0.019	100.000

Statistical Results			
Mean:	0.9674	phi	(0.5114 mm)
Standard Dev:	0.5485	phi-units	(0.6837 mm)
Skewness:	0.4190	dimensionless	
Kurtosis:	4.1970	dimensionless	
5th Moment:	7.9757	dimensionless	
6th Moment:	47.4228	dimensionless	
RARD *	0.5669	dimensionless	
Median	0.8111	phi	(0.5699 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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