

Onshore Grab Sample

Sample: CR-12-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/5/09
Splits? N/A

County: Collier
Latitude: 26° 12' 14.3"
Longitude: 81° 48' 59.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 63.649 grams
Total Fines in Sample 0.123 grams
Total Percent Fines 0.19 %

Dry Sieving Summary

Total Sample Weight 63.546 grams
Total Digested Weight 43.475 grams
Total Carbonate Weight 20.071 grams
Total Silica % 68.42 %
Total Carbonate % 31.58 %
Carbonate/Silica Ratio 0.462

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-12-BB

Total Sample Mass: 63.546 grams

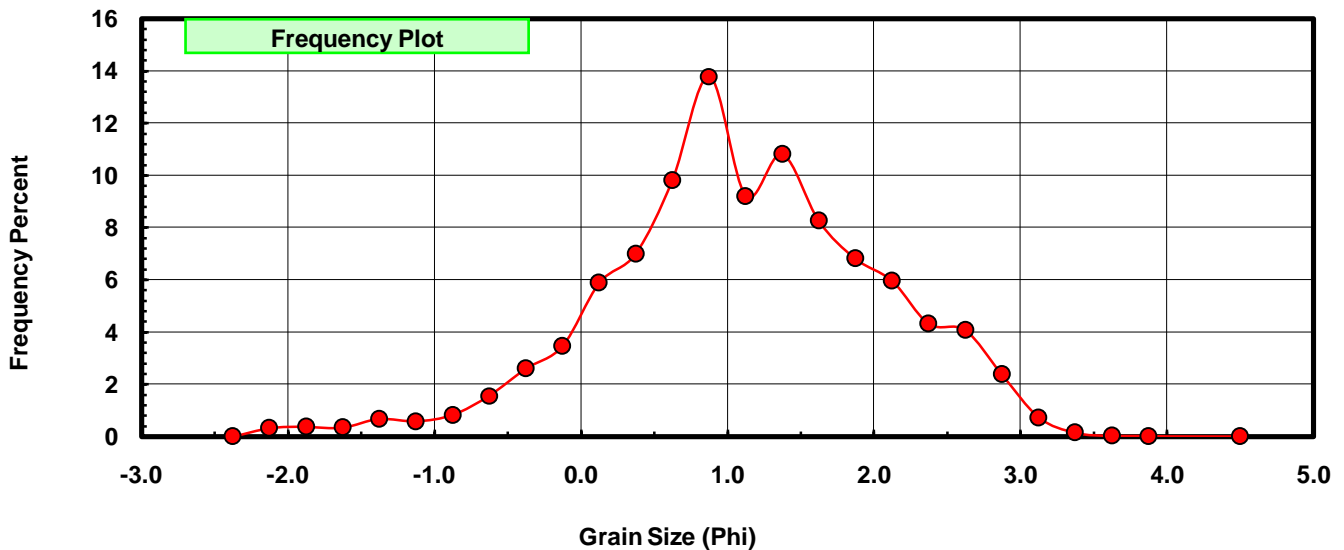
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.204	0.321	0.321
-1.75	-1.875	0.237	0.373	0.694
-1.50	-1.625	0.217	0.341	1.035
-1.25	-1.375	0.431	0.678	1.714
-1.00	-1.125	0.369	0.581	2.294
-0.75	-0.875	0.526	0.828	3.122
-0.50	-0.625	0.995	1.566	4.688
-0.25	-0.375	1.653	2.601	7.289
0.00	-0.125	2.203	3.467	10.756
0.25	0.125	3.737	5.881	16.637
0.50	0.375	4.448	7.000	23.636
0.75	0.625	6.233	9.809	33.445
1.00	0.875	8.763	13.790	47.235
1.25	1.125	5.850	9.206	56.441
1.50	1.375	6.868	10.808	67.249
1.75	1.625	5.248	8.259	75.508
2.00	1.875	4.334	6.820	82.328
2.25	2.125	3.789	5.963	88.290
2.50	2.375	2.744	4.318	92.609
2.75	2.625	2.590	4.076	96.684
3.00	2.875	1.514	2.383	99.067
3.25	3.125	0.464	0.730	99.797
3.50	3.375	0.094	0.148	99.945
3.75	3.625	0.021	0.033	99.978
4.00	3.875	0.008	0.013	99.991
5.00	4.50	0.006	0.009	100.000

Statistical Results			
Mean:	1.0982	phi	(0.4671 mm)
Standard Dev:	0.9497	phi-units	(0.5177 mm)
Skewness:	-0.3015	dimensionless	
Kurtosis:	3.2851	dimensionless	
5th Moment:	-3.7215	dimensionless	
6th Moment:	18.9758	dimensionless	
RARD *	0.8648	dimensionless	
Median	0.9501	phi	(0.5176 mm)

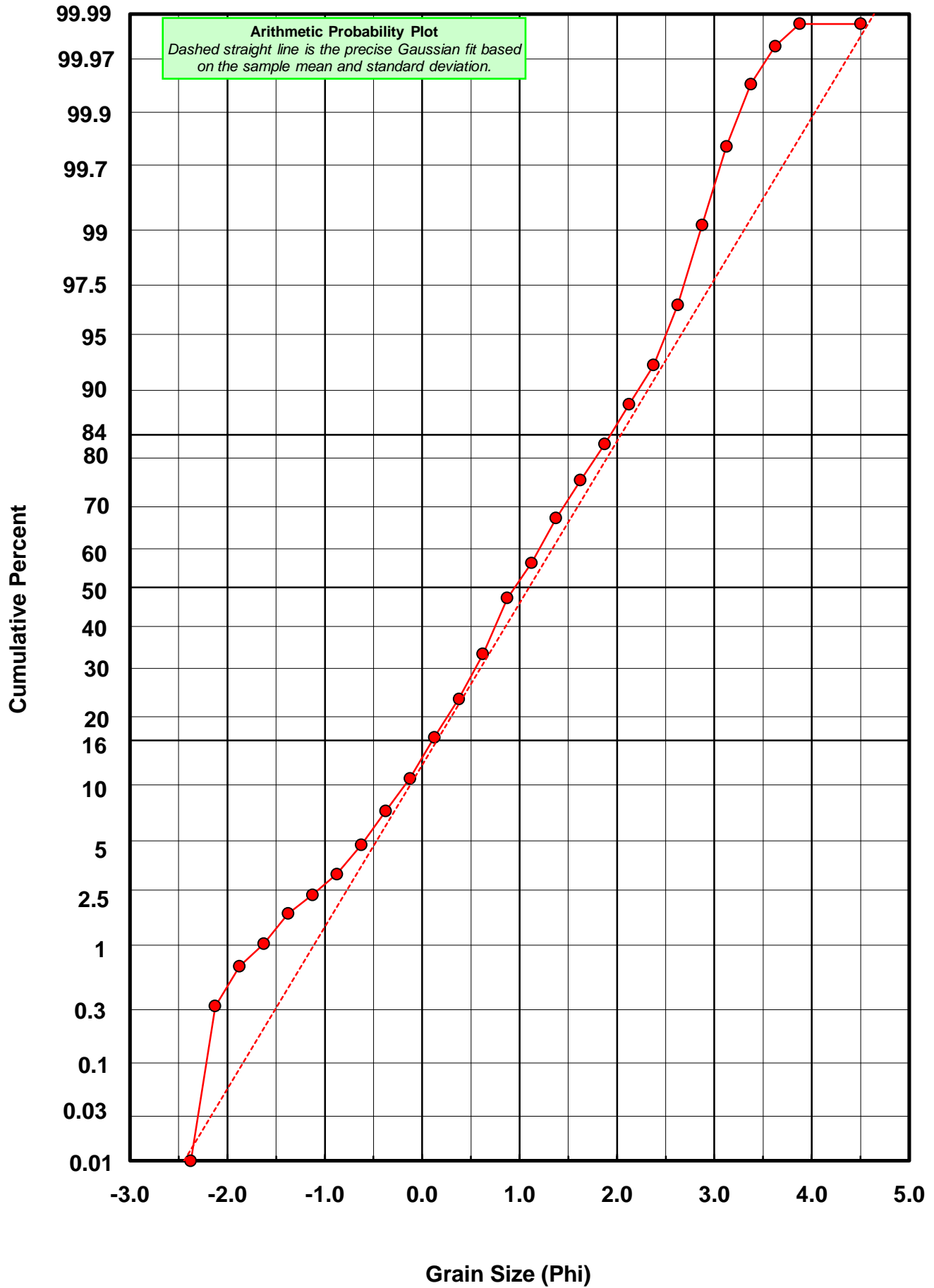
* RARD = reciprocal absolute relative dispersion (see below)

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)



CR-12-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-12-BB

Total Carbonate Mass: 20.077 grams

% Carbonate: 31.6 %

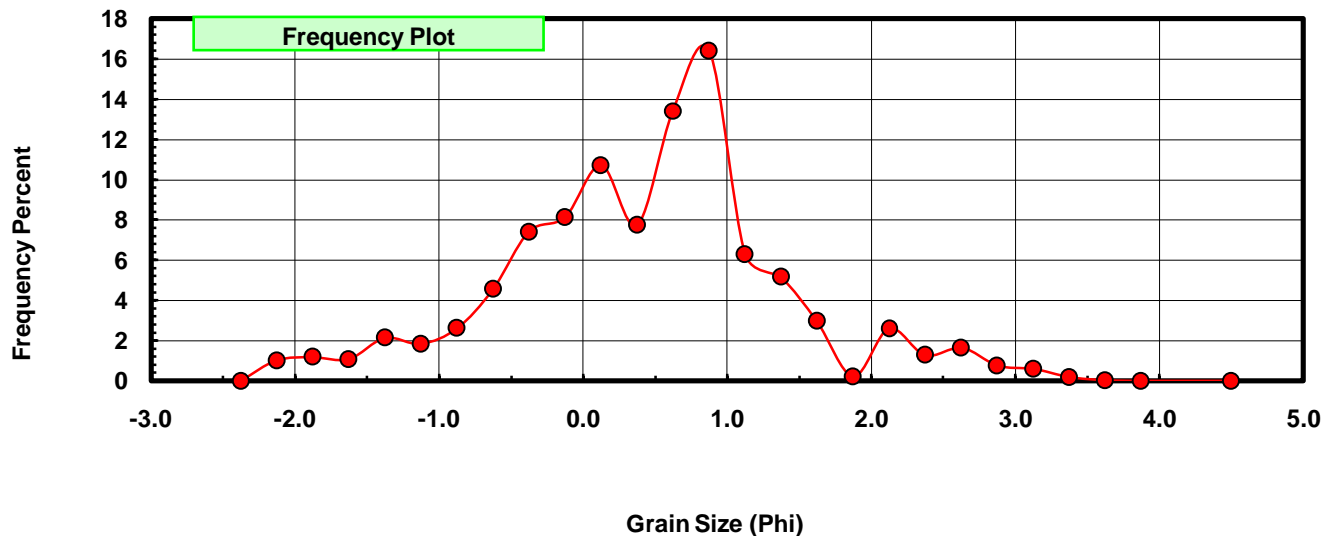
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.204	1.016	1.016
-1.75	-1.875	0.237	1.180	2.197
-1.50	-1.625	0.217	1.081	3.277
-1.25	-1.375	0.431	2.147	5.424
-1.00	-1.125	0.369	1.838	7.262
-0.75	-0.875	0.526	2.620	9.882
-0.50	-0.625	0.916	4.562	14.444
-0.25	-0.375	1.488	7.411	21.856
0.00	-0.125	1.634	8.139	29.995
0.25	0.125	2.150	10.709	40.703
0.50	0.375	1.554	7.740	48.443
0.75	0.625	2.695	13.423	61.867
1.00	0.875	3.289	16.382	78.249
1.25	1.125	1.264	6.296	84.545
1.50	1.375	1.036	5.160	89.705
1.75	1.625	0.597	2.974	92.678
2.00	1.875	0.045	0.224	92.902
2.25	2.125	0.522	2.600	95.502
2.50	2.375	0.256	1.275	96.777
2.75	2.625	0.331	1.649	98.426
3.00	2.875	0.153	0.762	99.188
3.25	3.125	0.120	0.598	99.786
3.50	3.375	0.037	0.184	99.970
3.75	3.625	0.006	0.030	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:	0.4398	phi	(0.7373 mm)
Standard Dev:	0.9942	phi-units	(0.502 mm)
Skewness:	0.0209	dimensionless	
Kurtosis:	3.3773	dimensionless	
5th Moment:	0.5745	dimensionless	
6th Moment:	16.7099	dimensionless	
RARD *	2.2608	dimensionless	
Median	0.4040	phi	(0.7558 mm)

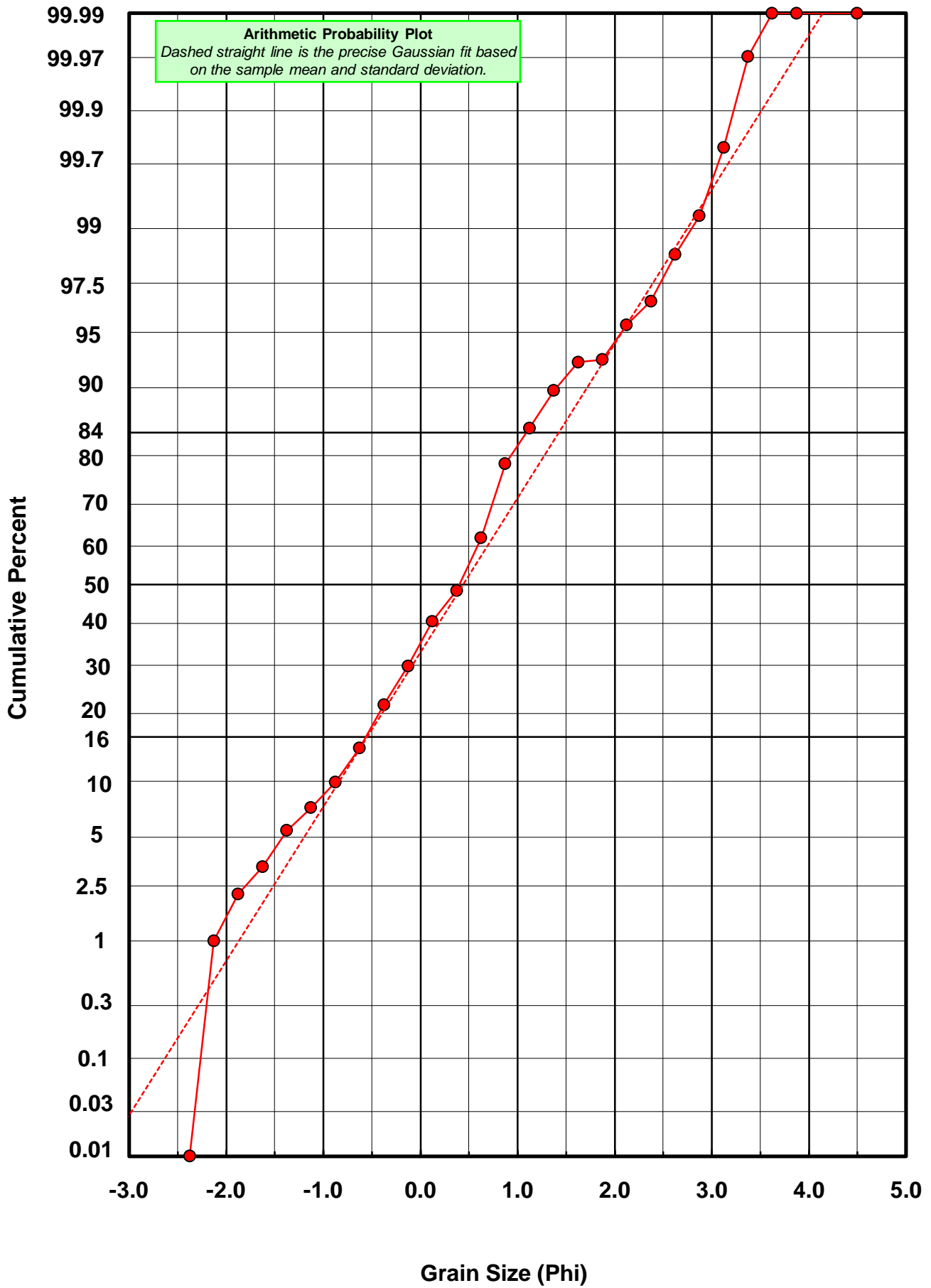
* RARD = reciprocal absolute relative dispersion (see below)

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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CR-12-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-12-BB

Total Digested Mass: 43.475 grams

% Silica: 68.4 %

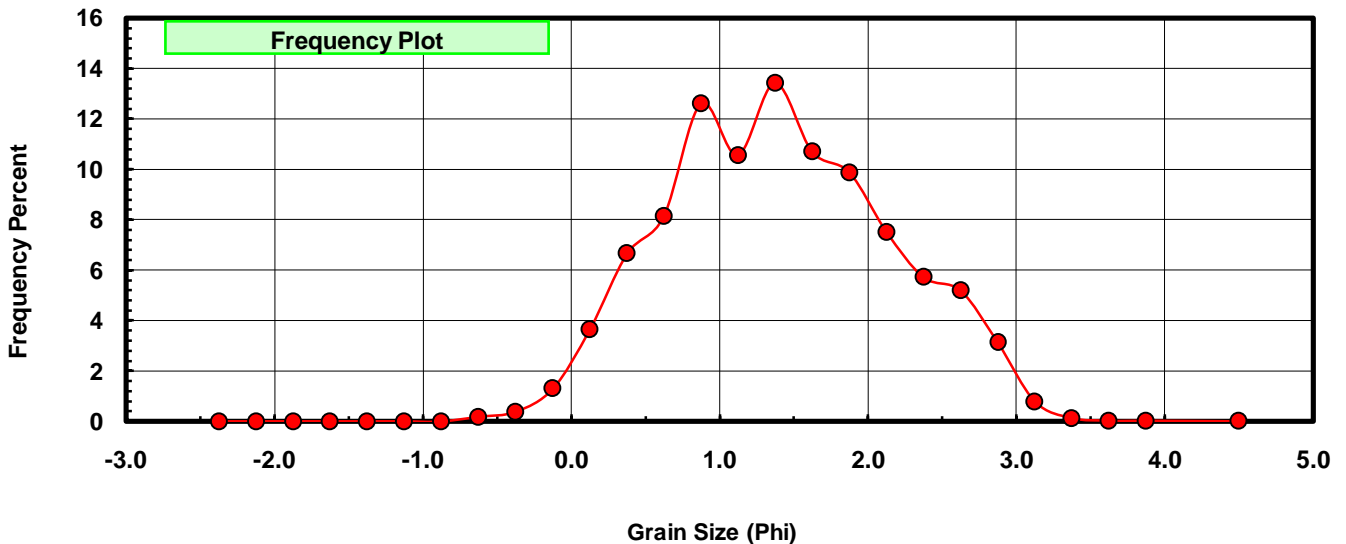
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-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.079	0.182	0.182
-0.25	-0.375	0.165	0.380	0.561
0.00	-0.125	0.569	1.309	1.870
0.25	0.125	1.587	3.650	5.520
0.50	0.375	2.894	6.657	12.177
0.75	0.625	3.538	8.138	20.315
1.00	0.875	5.474	12.591	32.906
1.25	1.125	4.586	10.549	43.455
1.50	1.375	5.832	13.415	56.869
1.75	1.625	4.651	10.698	67.568
2.00	1.875	4.289	9.865	77.433
2.25	2.125	3.267	7.515	84.948
2.50	2.375	2.488	5.723	90.671
2.75	2.625	2.259	5.196	95.867
3.00	2.875	1.361	3.131	98.997
3.25	3.125	0.344	0.791	99.788
3.50	3.375	0.057	0.131	99.919
3.75	3.625	0.015	0.035	99.954
4.00	3.875	0.014	0.032	99.986
5.00	4.500	0.006	0.014	100.000

Statistical Results			
Mean:	1.4026	phi	(0.3783 mm)
Standard Dev:	0.7652	phi-units	(0.5884 mm)
Skewness:	0.1374	dimensionless	
Kurtosis:	2.4302	dimensionless	
5th Moment:	0.7991	dimensionless	
6th Moment:	8.8885	dimensionless	
RARD *	0.5456	dimensionless	
Median	1.2470	phi	(0.4213 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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