

Onshore Grab Sample

Sample: SA-29-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/16/09
Splits? N/A

County: Sarasota
Latitude: 27° 04' 32"
Longitude: 82° 27' 6.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 49.693 grams
Total Fines in Sample 0.179 grams
Total Percent Fines 0.36 %

Dry Sieving Summary

Total Sample Weight 49.806 grams
Total Digested Weight 10.324 grams
Total Carbonate Weight 39.482 grams
Total Silica % 20.73 %
Total Carbonate % 79.27 %
Carbonate/Silica Ratio 3.824

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-29-BB

Total Sample Mass: 49.806 grams

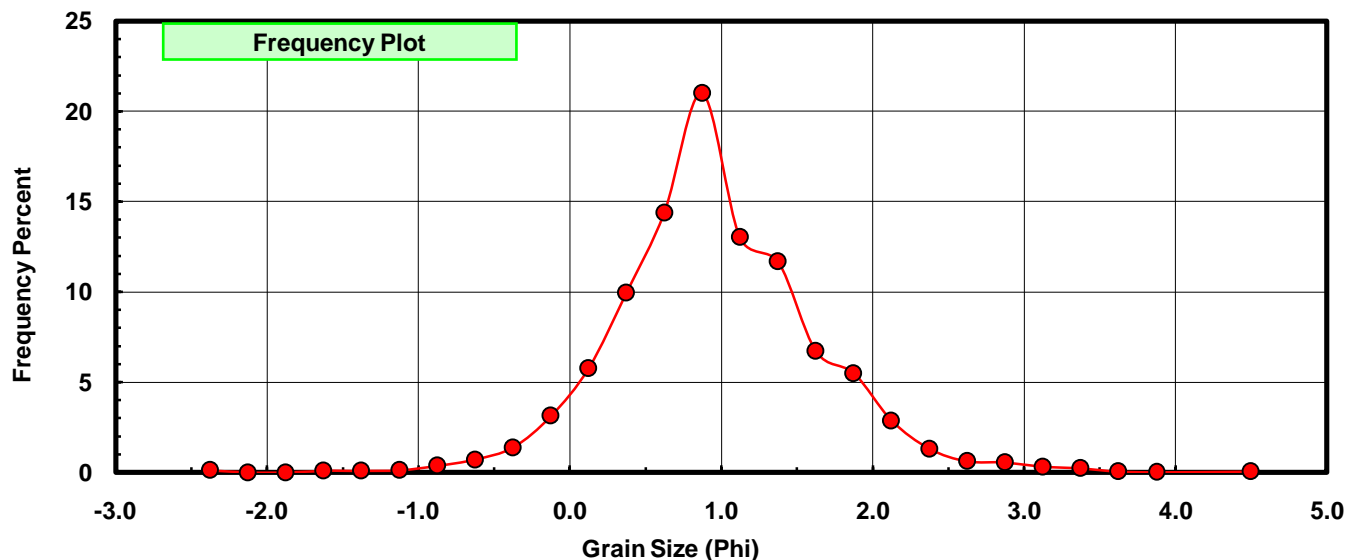
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.061	0.122	0.122
-2.00	-2.125	0.000	0.000	0.122
-1.75	-1.875	0.000	0.000	0.122
-1.50	-1.625	0.044	0.088	0.211
-1.25	-1.375	0.043	0.086	0.297
-1.00	-1.125	0.060	0.120	0.418
-0.75	-0.875	0.183	0.367	0.785
-0.50	-0.625	0.351	0.705	1.490
-0.25	-0.375	0.686	1.377	2.867
0.00	-0.125	1.561	3.134	6.001
0.25	0.125	2.872	5.766	11.768
0.50	0.375	4.958	9.955	21.722
0.75	0.625	7.170	14.396	36.118
1.00	0.875	10.463	21.008	57.126
1.25	1.125	6.483	13.017	70.142
1.50	1.375	5.817	11.679	81.821
1.75	1.625	3.347	6.720	88.542
2.00	1.875	2.730	5.481	94.023
2.25	2.125	1.429	2.869	96.892
2.50	2.375	0.652	1.309	98.201
2.75	2.625	0.304	0.610	98.811
3.00	2.875	0.272	0.546	99.358
3.25	3.125	0.156	0.313	99.671
3.50	3.375	0.109	0.219	99.890
3.75	3.625	0.027	0.054	99.944
4.00	3.875	0.001	0.002	99.946
5.00	4.50	0.027	0.054	100.000

Statistical Results			
Mean:	0.9592	phi	(0.5143 mm)
Standard Dev:	0.6796	phi-units	(0.6243 mm)
Skewness:	0.1723	dimensionless	
Kurtosis:	4.7481	dimensionless	
5th Moment:	0.7975	dimensionless	
6th Moment:	54.2634	dimensionless	
RARD *	0.7085	dimensionless	
Median	0.7902	phi	(0.5783 mm)

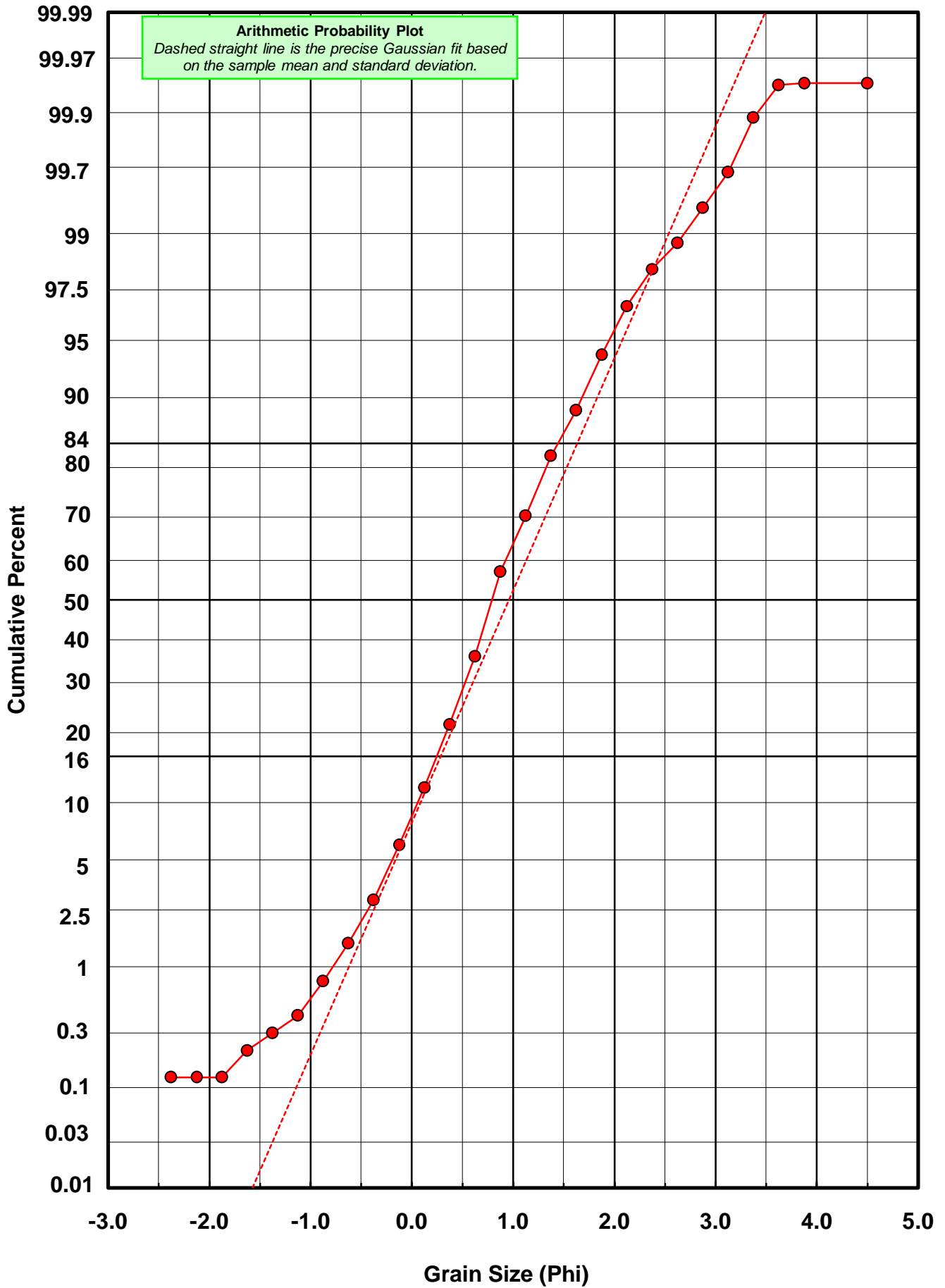
* RARD = reciprocal absolute relative dispersion (see below)

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)



SA-29-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SA-29-BB

Total Carbonate Mass: 39.525 grams

% Carbonate: 79.3 %

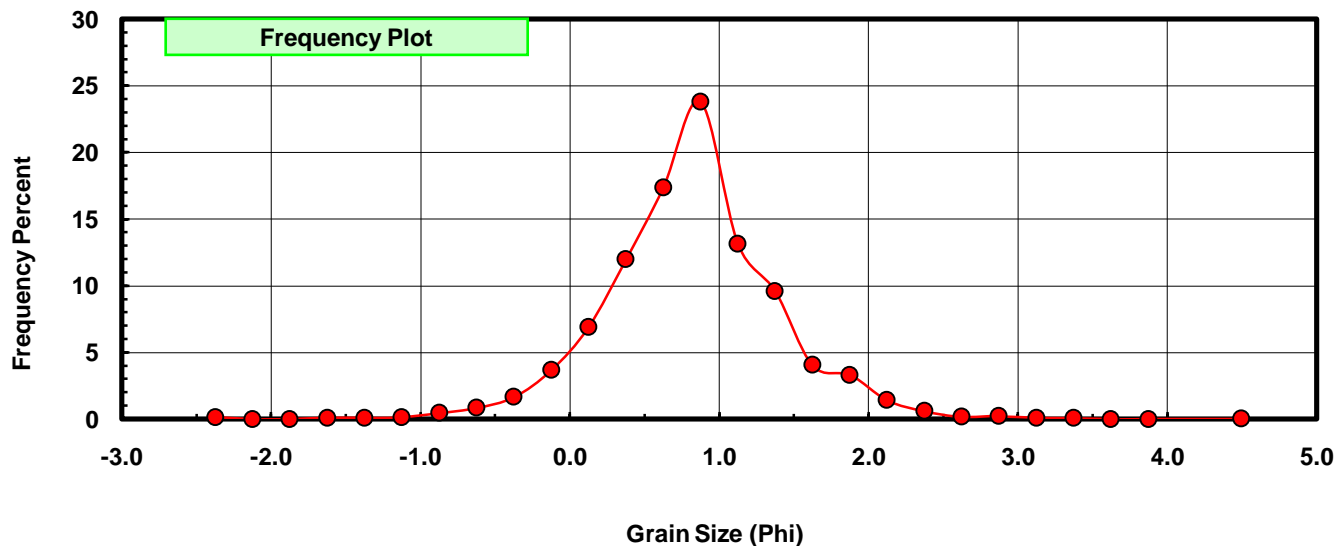
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.061	0.154	0.154
-2.00	-2.125	0.000	0.000	0.154
-1.75	-1.875	0.000	0.000	0.154
-1.50	-1.625	0.044	0.111	0.266
-1.25	-1.375	0.043	0.109	0.374
-1.00	-1.125	0.060	0.152	0.526
-0.75	-0.875	0.183	0.463	0.989
-0.50	-0.625	0.338	0.855	1.844
-0.25	-0.375	0.655	1.657	3.502
0.00	-0.125	1.454	3.679	7.180
0.25	0.125	2.722	6.887	14.067
0.50	0.375	4.741	11.995	26.062
0.75	0.625	6.862	17.361	43.423
1.00	0.875	9.413	23.815	67.238
1.25	1.125	5.190	13.131	80.369
1.50	1.375	3.794	9.599	89.968
1.75	1.625	1.604	4.058	94.027
2.00	1.875	1.313	3.322	97.349
2.25	2.125	0.562	1.422	98.770
2.50	2.375	0.244	0.617	99.388
2.75	2.625	0.069	0.175	99.562
3.00	2.875	0.091	0.230	99.793
3.25	3.125	0.038	0.096	99.889
3.50	3.375	0.029	0.073	99.962
3.75	3.625	0.000	0.000	99.962
4.00	3.875	0.000	0.000	99.962
5.00	4.500	0.015	0.038	100.000

Statistical Results			
Mean:	0.8128	phi	(0.5693 mm)
Standard Dev:	0.6077	phi-units	(0.6562 mm)
Skewness:	-0.0723	dimensionless	
Kurtosis:	5.5657	dimensionless	
5th Moment:	-2.3924	dimensionless	
6th Moment:	83.2243	dimensionless	
RARD *	0.7477	dimensionless	
Median	0.6940	phi	(0.6181 mm)

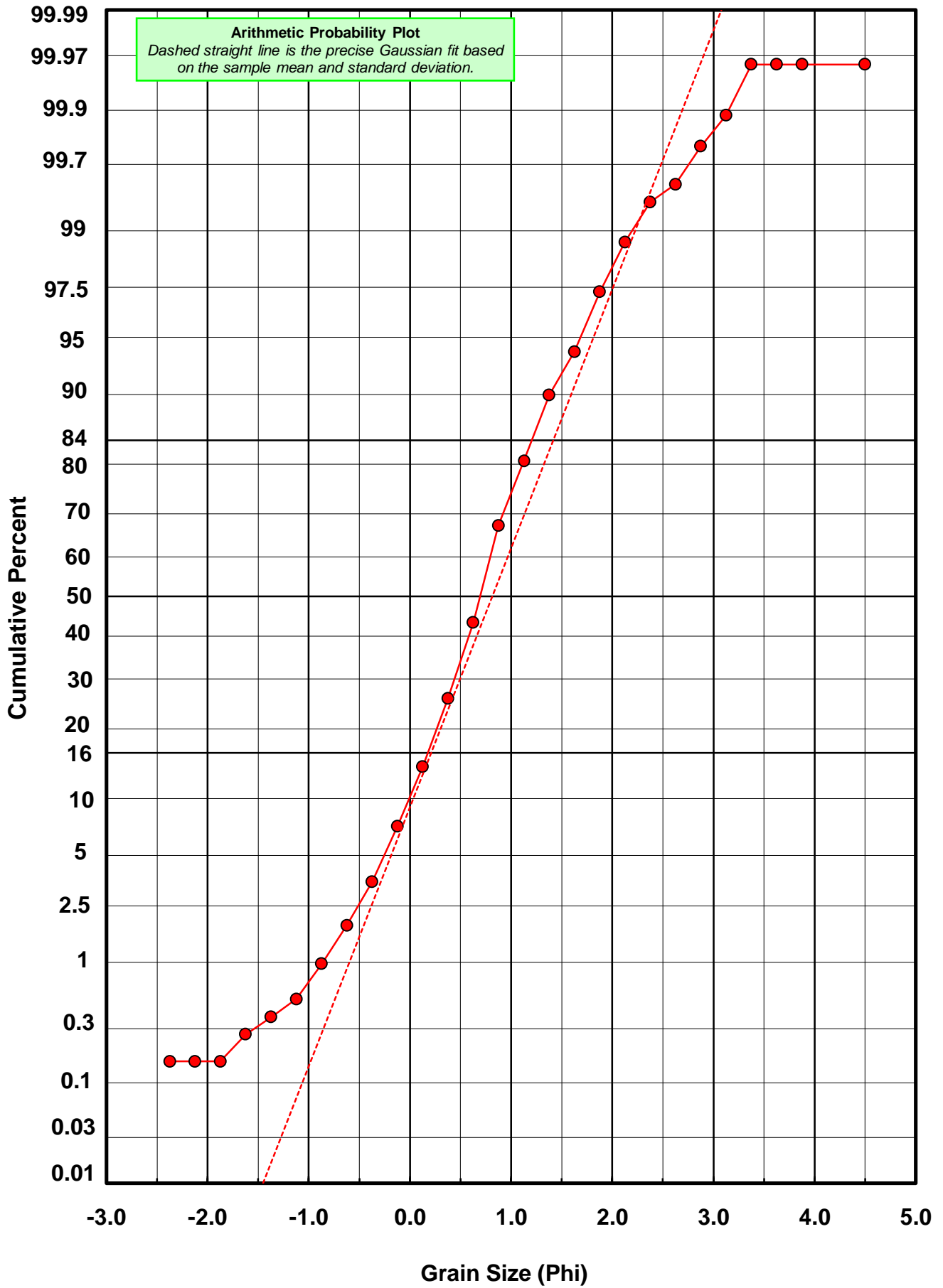
* RARD = reciprocal absolute relative dispersion (see below)

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	
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SA-29-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-29-BB

Total Digested Mass: 10.324 grams

% Silica: 20.7 %

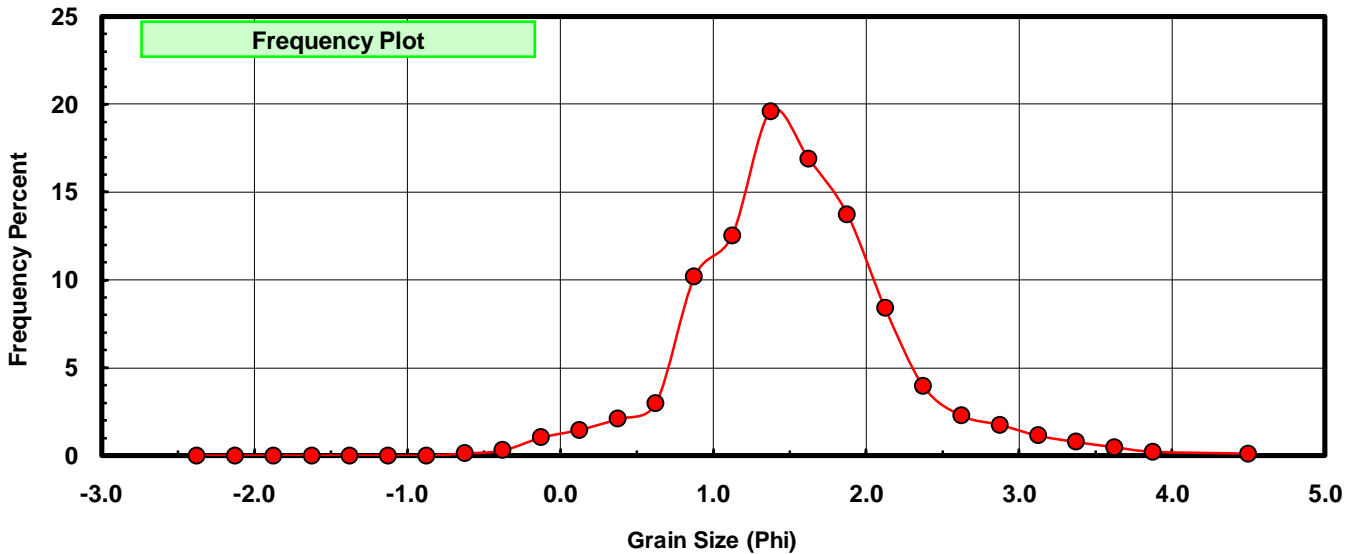
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.013	0.126	0.126
-0.25	-0.375	0.031	0.300	0.426
0.00	-0.125	0.107	1.036	1.463
0.25	0.125	0.150	1.453	2.916
0.50	0.375	0.217	2.102	5.017
0.75	0.625	0.308	2.983	8.001
1.00	0.875	1.050	10.170	18.171
1.25	1.125	1.293	12.524	30.695
1.50	1.375	2.023	19.595	50.291
1.75	1.625	1.743	16.883	67.174
2.00	1.875	1.417	13.725	80.899
2.25	2.125	0.867	8.398	89.297
2.50	2.375	0.408	3.952	93.249
2.75	2.625	0.235	2.276	95.525
3.00	2.875	0.181	1.753	97.278
3.25	3.125	0.118	1.143	98.421
3.50	3.375	0.080	0.775	99.196
3.75	3.625	0.049	0.475	99.671
4.00	3.875	0.022	0.213	99.884
5.00	4.500	0.012	0.116	100.000

Statistical Results			
Mean:	1.5312	phi	(0.346 mm)
Standard Dev:	0.6886	phi-units	(0.6205 mm)
Skewness:	0.3465	dimensionless	
Kurtosis:	4.0037	dimensionless	
5th Moment:	4.3623	dimensionless	
6th Moment:	29.8427	dimensionless	
RARD *	0.4497	dimensionless	
Median	1.3713	phi	(0.3865 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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