

Onshore Grab Sample

Sample: SA-05-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/3/09
Splits? N/A

County: Sarasota
Latitude: 27° 20' 19.6"
Longitude: 82° 35' 58.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 60.002 grams
Total Fines in Sample 0.282 grams
Total Percent Fines 0.47 %

Dry Sieving Summary

Total Sample Weight 59.804 grams
Total Digested Weight 34.652 grams
Total Carbonate Weight 25.152 grams
Total Silica % 57.94 %
Total Carbonate % 42.06 %
Carbonate/Silica Ratio 0.726

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-05-BB

Total Sample Mass: 59.804 grams

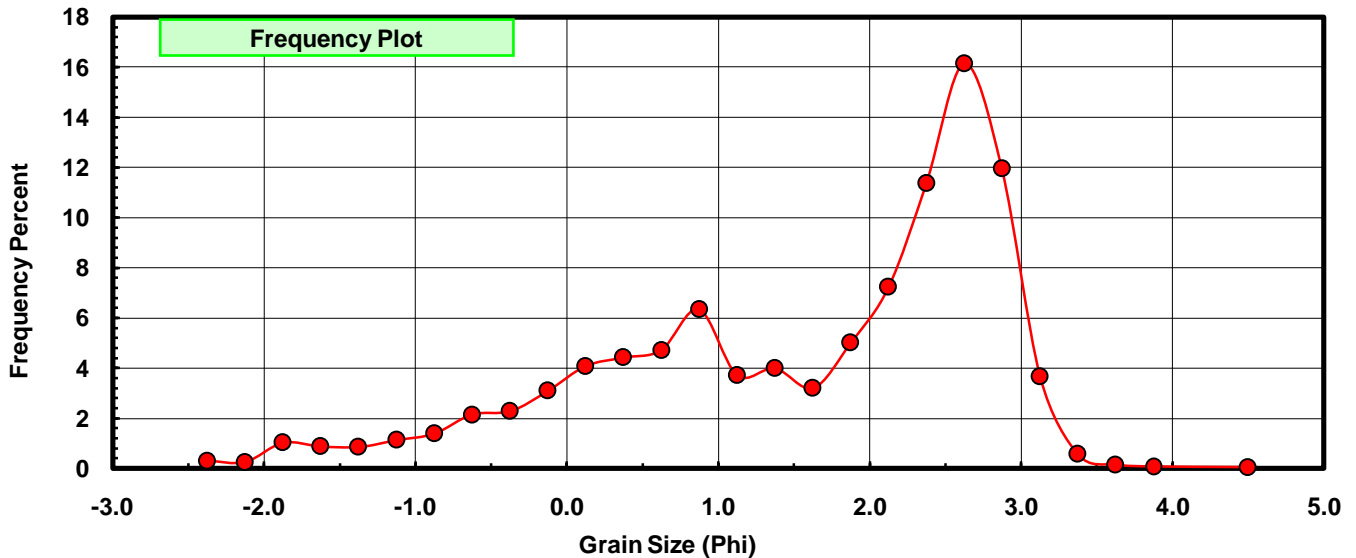
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.179	0.299	0.299
-2.00	-2.125	0.153	0.256	0.555
-1.75	-1.875	0.613	1.025	1.580
-1.50	-1.625	0.522	0.873	2.453
-1.25	-1.375	0.508	0.849	3.302
-1.00	-1.125	0.676	1.130	4.433
-0.75	-0.875	0.830	1.388	5.821
-0.50	-0.625	1.279	2.139	7.959
-0.25	-0.375	1.360	2.274	10.233
0.00	-0.125	1.852	3.097	13.330
0.25	0.125	2.440	4.080	17.410
0.50	0.375	2.648	4.428	21.838
0.75	0.625	2.823	4.720	26.558
1.00	0.875	3.789	6.336	32.894
1.25	1.125	2.227	3.724	36.618
1.50	1.375	2.384	3.986	40.604
1.75	1.625	1.912	3.197	43.801
2.00	1.875	2.996	5.010	48.811
2.25	2.125	4.325	7.232	56.043
2.50	2.375	6.800	11.370	67.414
2.75	2.625	9.651	16.138	83.551
3.00	2.875	7.153	11.961	95.512
3.25	3.125	2.190	3.662	99.174
3.50	3.375	0.338	0.565	99.739
3.75	3.625	0.088	0.147	99.886
4.00	3.875	0.044	0.074	99.960
5.00	4.50	0.024	0.040	100.000

Statistical Results			
Mean:	1.5757	phi	(0.3355 mm)
Standard Dev:	1.2929	phi-units	(0.4081 mm)
Skewness:	-0.8292	dimensionless	
Kurtosis:	2.7947	dimensionless	
5th Moment:	-5.2511	dimensionless	
6th Moment:	14.0698	dimensionless	
RARD *	0.8205	dimensionless	
Median	1.9161	phi	(0.265 mm)

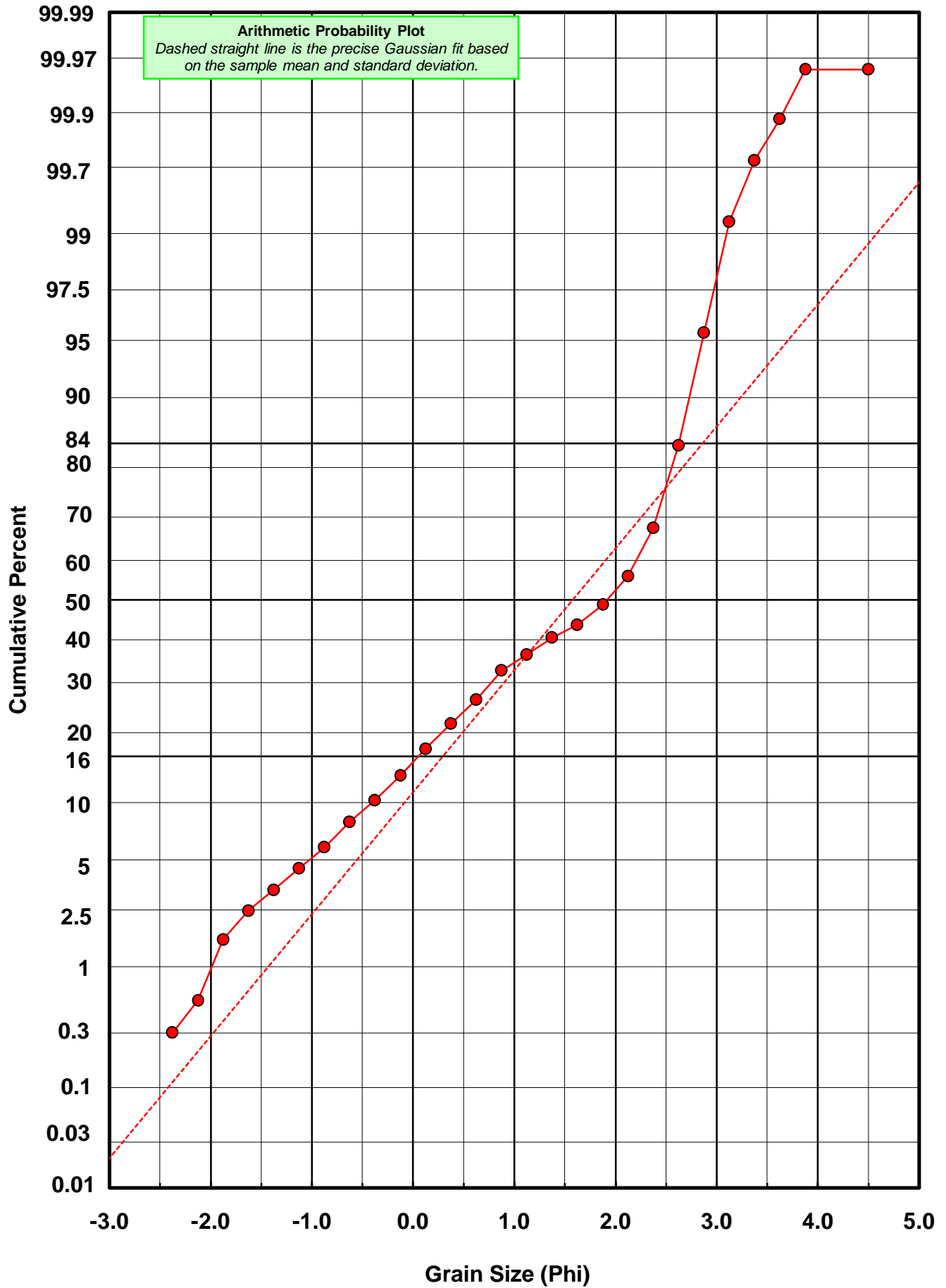
* RARD = reciprocal absolute relative dispersion (see below)

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-05-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SA-05-BB

Total Carbonate Mass: 26.600 grams

% Carbonate: 42.1 %

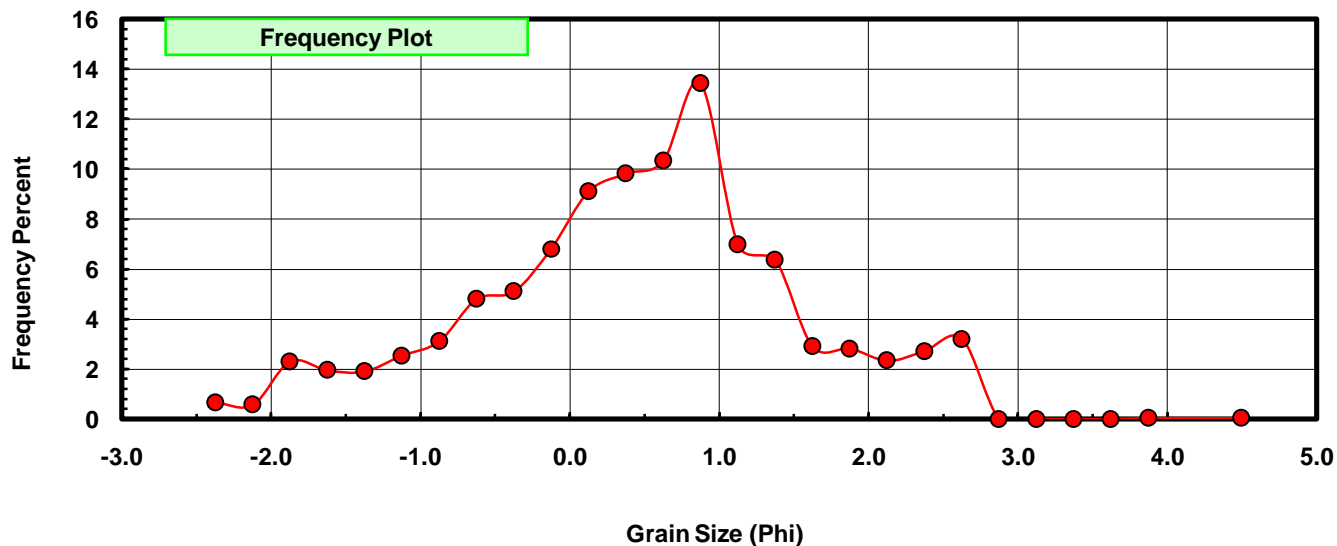
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.179	0.673	0.673
-2.00	-2.125	0.153	0.575	1.248
-1.75	-1.875	0.613	2.305	3.553
-1.50	-1.625	0.522	1.962	5.515
-1.25	-1.375	0.508	1.910	7.425
-1.00	-1.125	0.676	2.541	9.966
-0.75	-0.875	0.830	3.120	13.086
-0.50	-0.625	1.279	4.808	17.895
-0.25	-0.375	1.360	5.113	23.008
0.00	-0.125	1.814	6.820	29.827
0.25	0.125	2.423	9.109	38.936
0.50	0.375	2.614	9.827	48.763
0.75	0.625	2.750	10.338	59.102
1.00	0.875	3.577	13.447	72.549
1.25	1.125	1.856	6.977	79.526
1.50	1.375	1.697	6.380	85.906
1.75	1.625	0.777	2.921	88.827
2.00	1.875	0.750	2.820	91.647
2.25	2.125	0.623	2.342	93.989
2.50	2.375	0.722	2.714	96.703
2.75	2.625	0.853	3.207	99.910
3.00	2.875	0.000	0.000	99.910
3.25	3.125	0.000	0.000	99.910
3.50	3.375	0.000	0.000	99.910
3.75	3.625	0.000	0.000	99.910
4.00	3.875	0.012	0.045	99.955
5.00	4.500	0.012	0.045	100.000

Statistical Results			
Mean:	0.4561	phi	(0.729 mm)
Standard Dev:	1.0919	phi-units	(0.4691 mm)
Skewness:	-0.1873	dimensionless	
Kurtosis:	2.9095	dimensionless	
5th Moment:	-1.0570	dimensionless	
6th Moment:	12.3135	dimensionless	
RARD *	2.3943	dimensionless	
Median	0.4049	phi	(0.7553 mm)

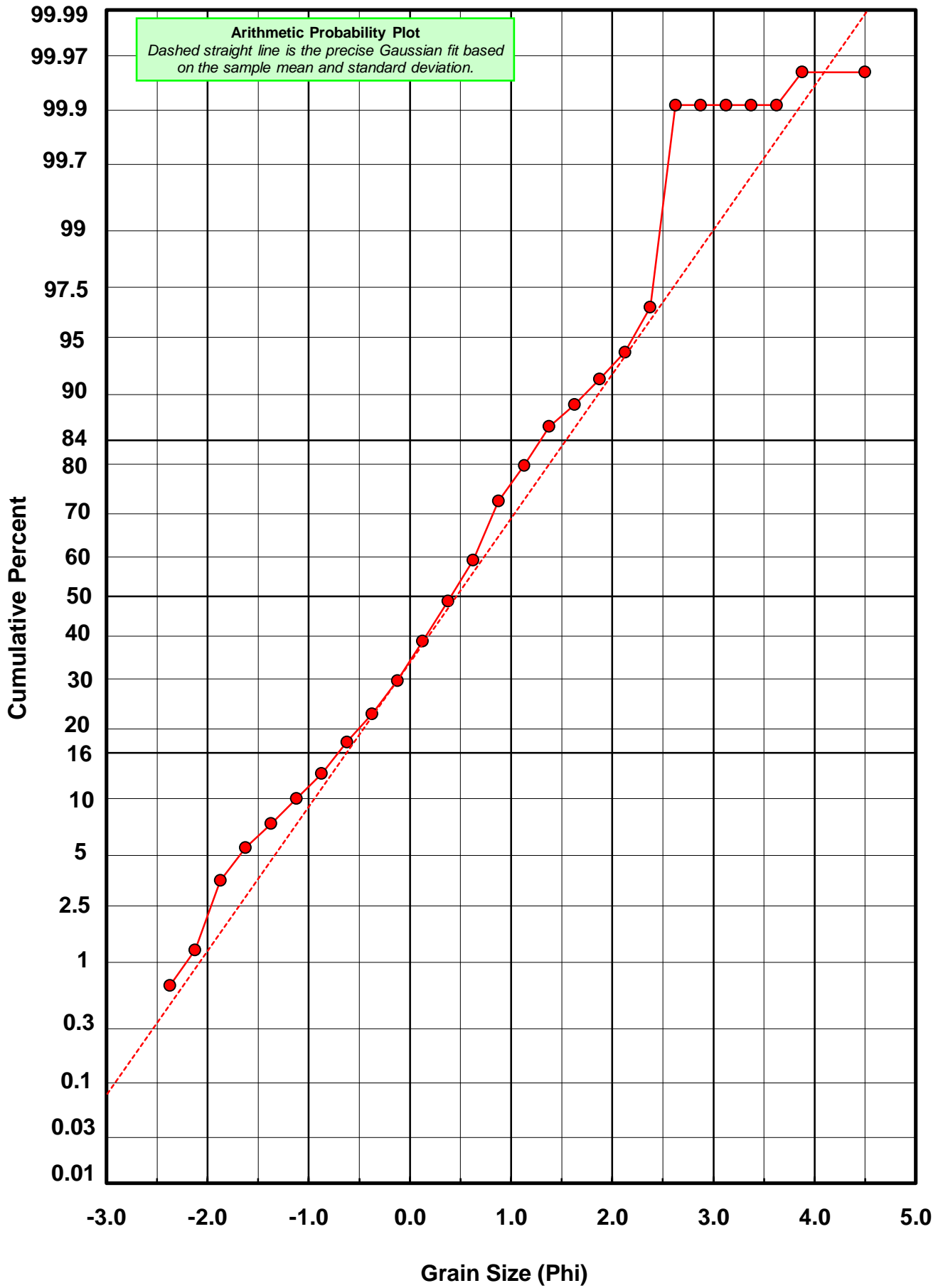
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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SA-05-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-05-BB

Total Digested Mass: 34.652 grams

% Silica: 57.9 %

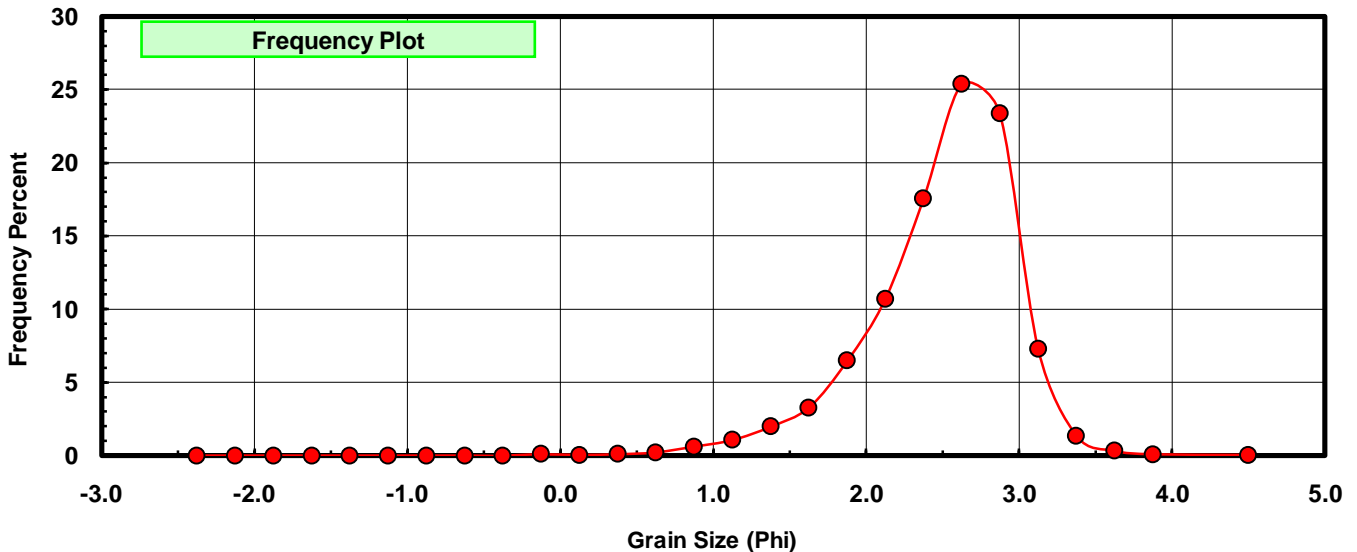
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.038	0.110	0.110
0.25	0.125	0.017	0.049	0.159
0.50	0.375	0.034	0.098	0.257
0.75	0.625	0.073	0.211	0.468
1.00	0.875	0.212	0.612	1.079
1.25	1.125	0.371	1.071	2.150
1.50	1.375	0.687	1.983	4.133
1.75	1.625	1.135	3.275	7.408
2.00	1.875	2.246	6.482	13.890
2.25	2.125	3.702	10.683	24.573
2.50	2.375	6.078	17.540	42.113
2.75	2.625	8.798	25.390	67.503
3.00	2.875	8.102	23.381	90.884
3.25	3.125	2.530	7.301	98.185
3.50	3.375	0.470	1.356	99.541
3.75	3.625	0.115	0.332	99.873
4.00	3.875	0.032	0.092	99.965
5.00	4.500	0.012	0.035	100.000

Statistical Results			
Mean:	2.4944	phi	(0.1775 mm)
Standard Dev:	0.4918	phi-units	(0.7112 mm)
Skewness:	-1.0580	dimensionless	
Kurtosis:	5.1552	dimensionless	
5th Moment:	-14.3579	dimensionless	
6th Moment:	65.9127	dimensionless	
RARD *	0.1972	dimensionless	
Median	2.4527	phi	(0.1827 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
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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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