

Onshore Grab Sample

Sample: IR-09-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/29/08
Splits? N/A

County: Indian River
Latitude: 27° 45' 36.5"
Longitude: 80° 23' 42.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	56.272 grams
Total Fines in Sample	0.099 grams
Total Percent Fines	0.18 %

Dry Sieving Summary

Total Sample Weight	59.092 grams
Total Digested Weight	46.605 grams
Total Carbonate Weight	12.487 grams
Total Silica %	78.87 %
Total Carbonate %	21.13 %
Carbonate/Silica Ratio	0.268

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-09-BB

Total Sample Mass: 59.092 grams

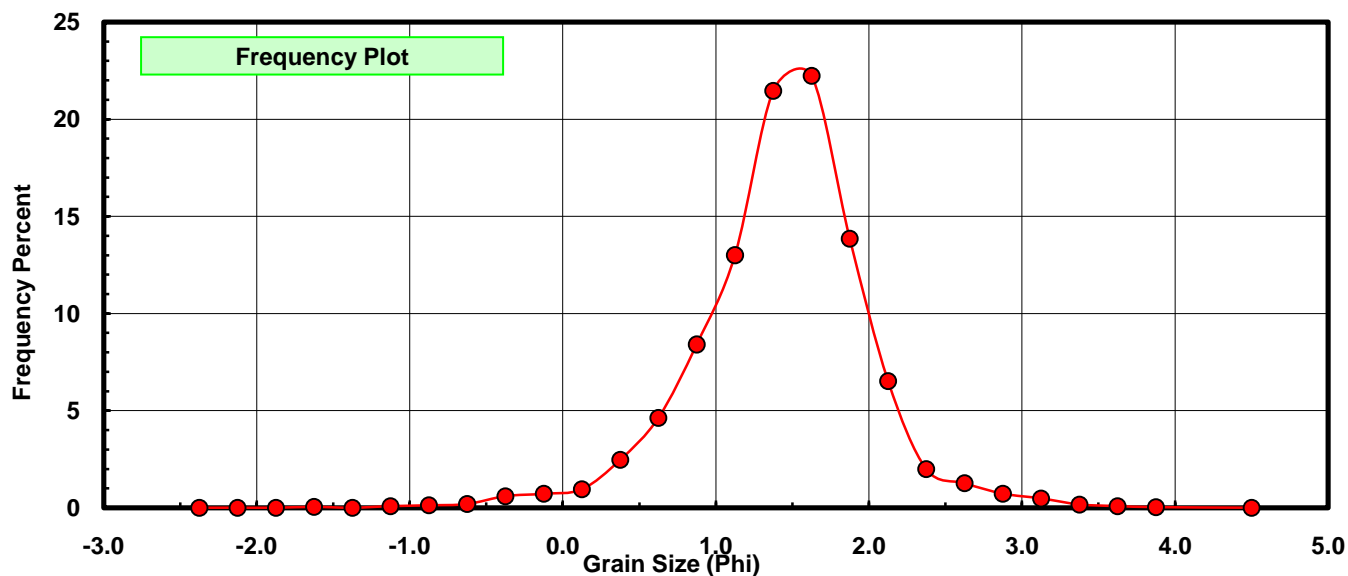
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.025	0.042	0.042
-1.25	-1.375	0.000	0.000	0.042
-1.00	-1.125	0.047	0.080	0.122
-0.75	-0.875	0.073	0.124	0.245
-0.50	-0.625	0.112	0.190	0.435
-0.25	-0.375	0.352	0.596	1.031
0.00	-0.125	0.424	0.718	1.748
0.25	0.125	0.561	0.949	2.697
0.50	0.375	1.455	2.462	5.160
0.75	0.625	2.736	4.630	9.790
1.00	0.875	4.968	8.407	18.197
1.25	1.125	7.683	13.002	31.199
1.50	1.375	12.681	21.460	52.659
1.75	1.625	13.138	22.233	74.892
2.00	1.875	8.184	13.850	88.741
2.25	2.125	3.855	6.524	95.265
2.50	2.375	1.174	1.987	97.252
2.75	2.625	0.746	1.262	98.514
3.00	2.875	0.429	0.726	99.240
3.25	3.125	0.283	0.479	99.719
3.50	3.375	0.100	0.169	99.888
3.75	3.625	0.049	0.083	99.971
4.00	3.875	0.017	0.029	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.4329	phi	(0.3704 mm)
Standard Dev:	0.5677	phi-units	(0.6747 mm)
Skewness:	-0.3846	dimensionless	
Kurtosis:	5.0860	dimensionless	
5th Moment:	-5.8352	dimensionless	
6th Moment:	54.2900	dimensionless	
RARD *	0.3962	dimensionless	
Median	1.3440	phi	(0.3939 mm)

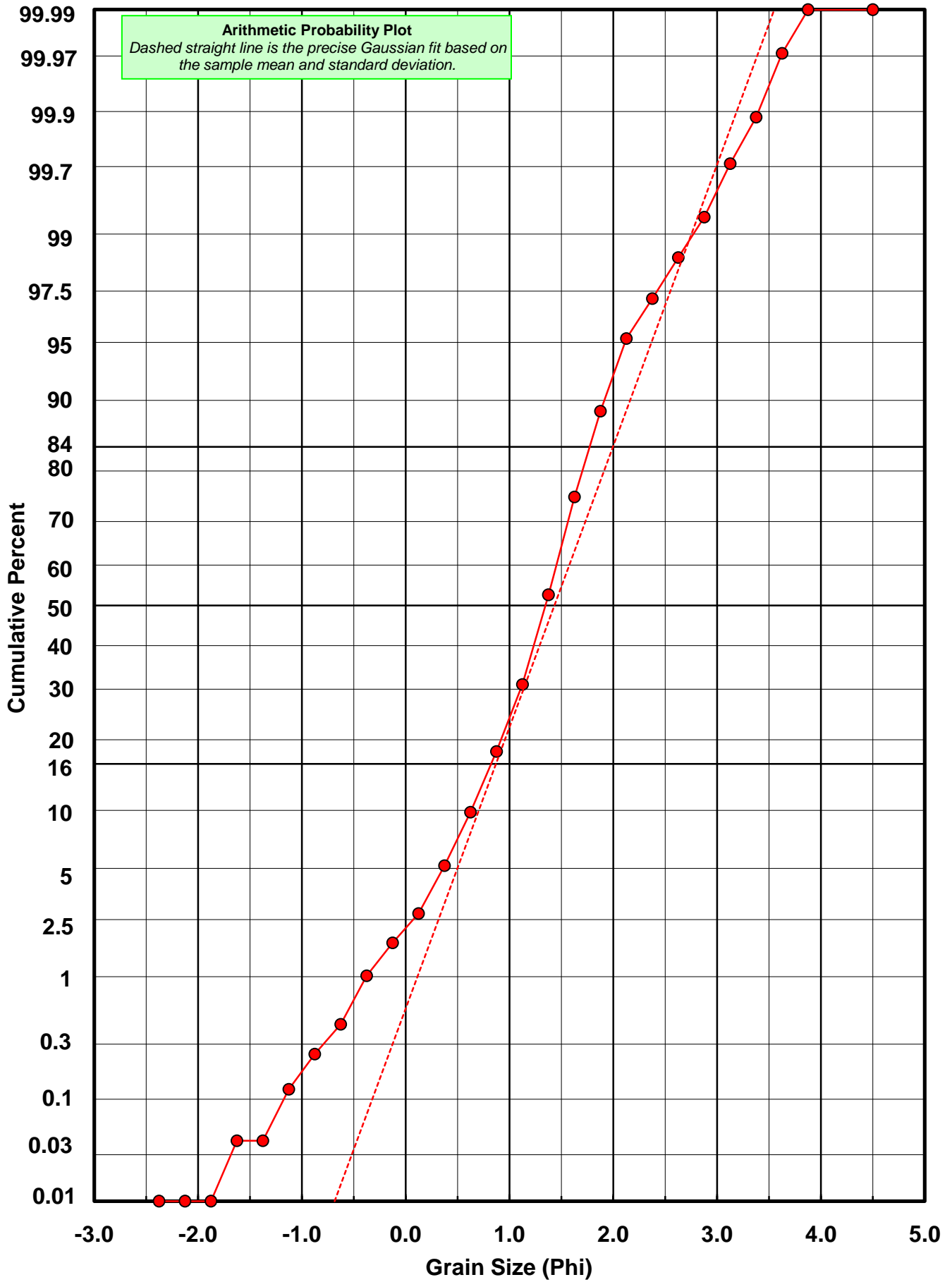
* RARD = reciprocal absolute relative dispersion (see below)

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)



IR-09-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: IR-09-BB

Total Carbonate Mass: 12.487 grams

% Carbonate: 21.1 %

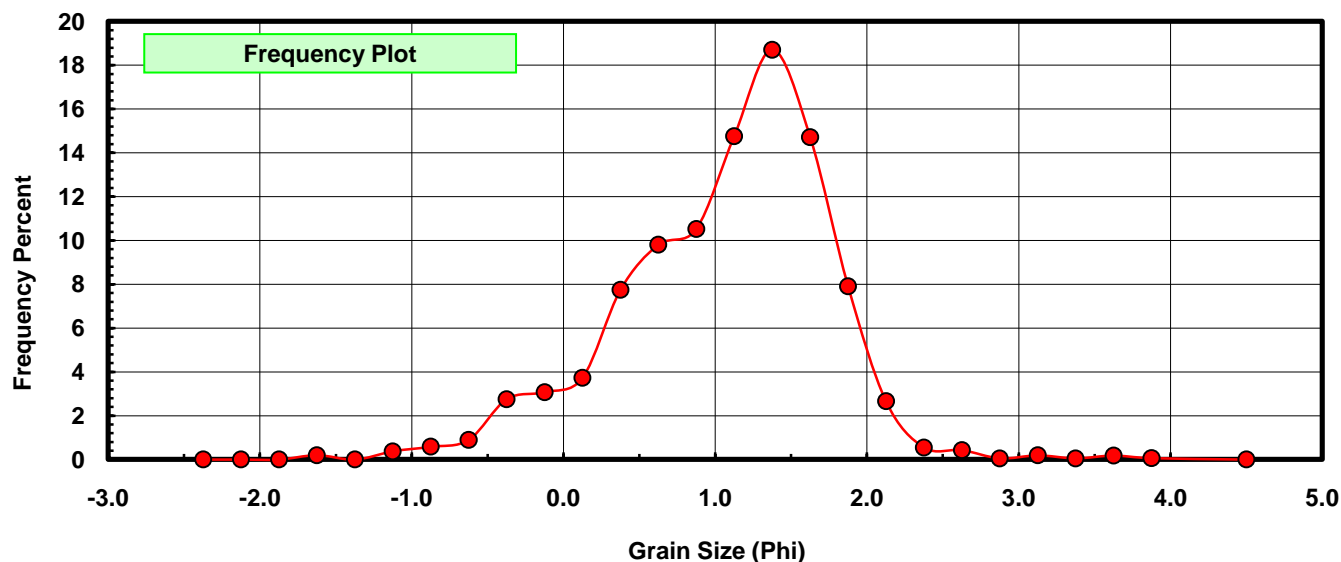
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.025	0.200	0.200
-1.25	-1.375	0.000	0.000	0.200
-1.00	-1.125	0.047	0.376	0.577
-0.75	-0.875	0.073	0.585	1.161
-0.50	-0.625	0.112	0.897	2.058
-0.25	-0.375	0.344	2.755	4.813
0.00	-0.125	0.384	3.075	7.888
0.25	0.125	0.466	3.732	11.620
0.50	0.375	0.967	7.744	19.364
0.75	0.625	1.225	9.810	29.174
1.00	0.875	1.314	10.523	39.697
1.25	1.125	1.844	14.767	54.465
1.50	1.375	2.336	18.707	73.172
1.75	1.625	1.838	14.719	87.891
2.00	1.875	0.988	7.912	95.804
2.25	2.125	0.332	2.659	98.462
2.50	2.375	0.069	0.553	99.015
2.75	2.625	0.054	0.432	99.447
3.00	2.875	0.007	0.056	99.503
3.25	3.125	0.024	0.192	99.696
3.50	3.375	0.007	0.056	99.752
3.75	3.625	0.023	0.184	99.936
4.00	3.875	0.008	0.064	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.0653	phi	(0.4779 mm)
Standard Dev:	0.7148	phi-units	(0.6093 mm)
Skewness:	-0.4711	dimensionless	
Kurtosis:	3.6621	dimensionless	
5th Moment:	-2.7681	dimensionless	
6th Moment:	26.9197	dimensionless	
RARD *	0.6710	dimensionless	
Median	1.0494	phi	(0.4832 mm)

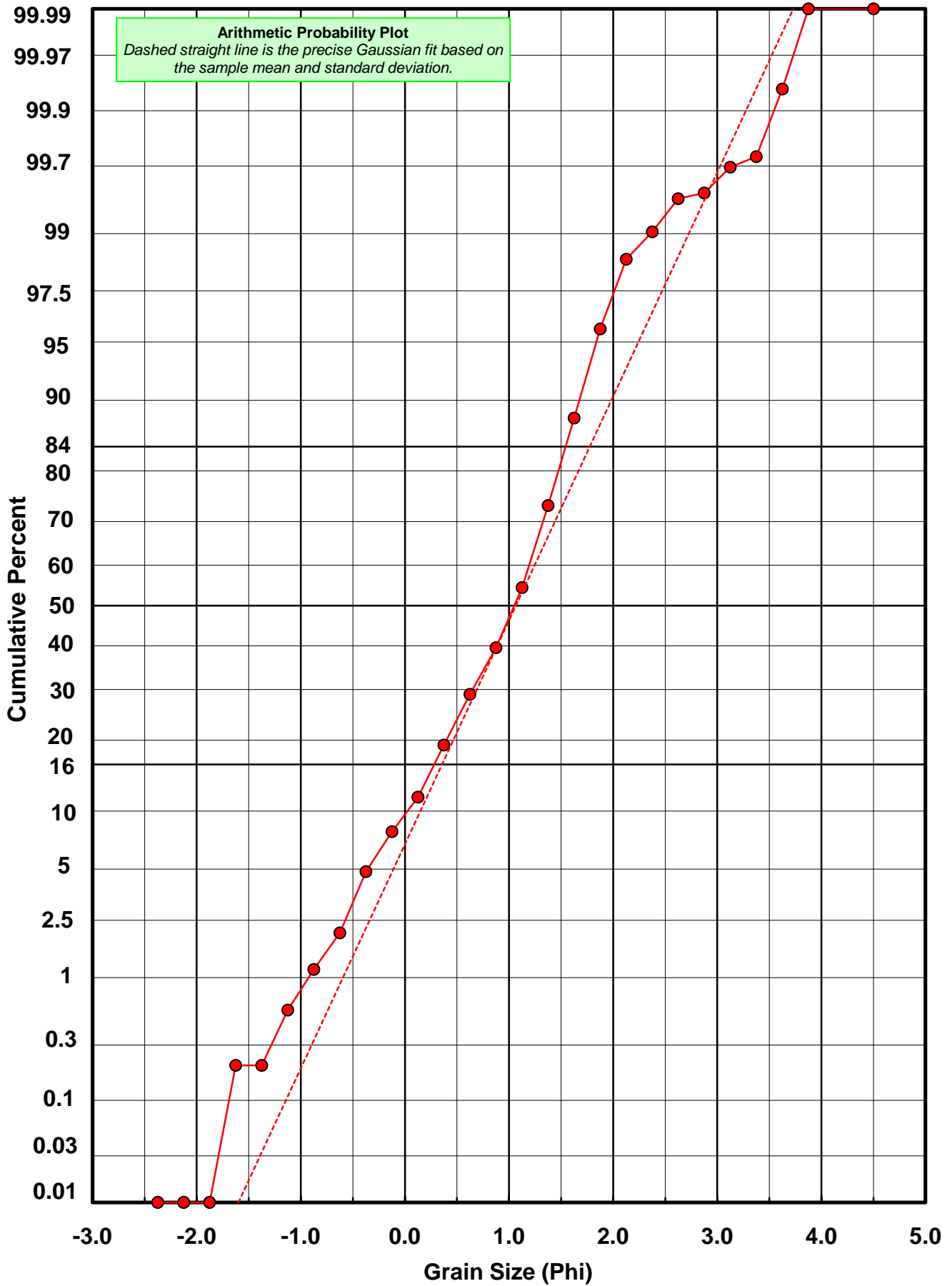
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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Millimeter data calculated by $mm = 2^{(-phi)}$	

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IR-09-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-09-BB

Total Digested Mass: 46.605 grams

% Silica: 78.9 %

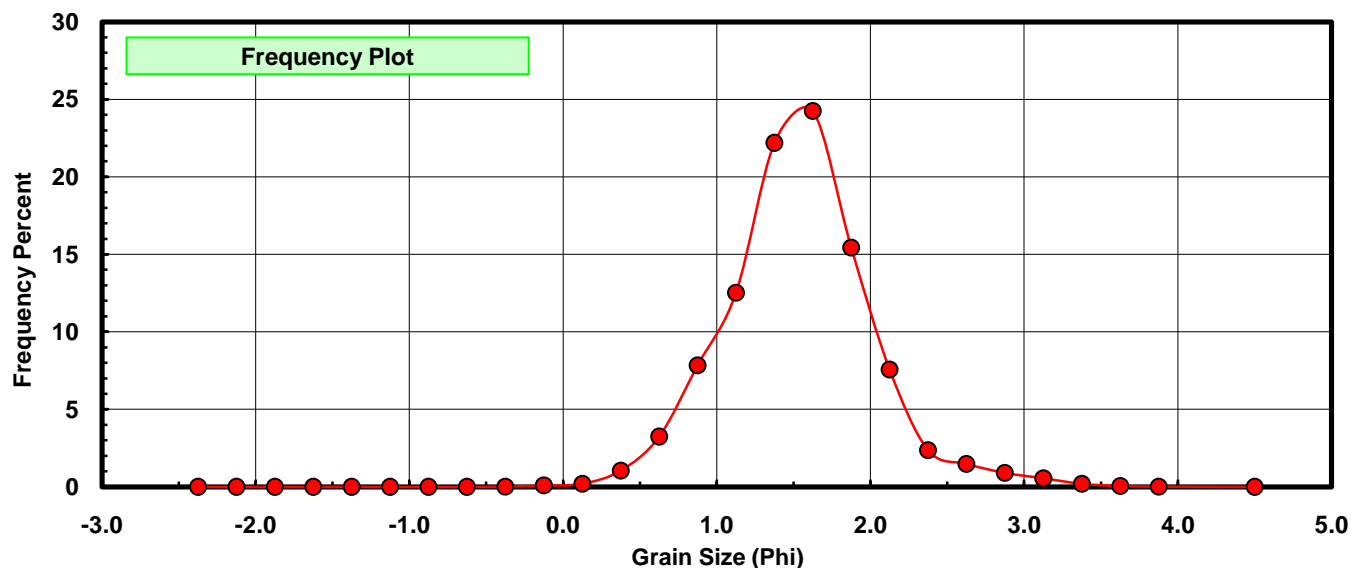
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.008	0.017	0.017
0.00	-0.125	0.040	0.086	0.103
0.25	0.125	0.095	0.204	0.307
0.50	0.375	0.488	1.047	1.354
0.75	0.625	1.511	3.242	4.596
1.00	0.875	3.654	7.840	12.436
1.25	1.125	5.839	12.529	24.965
1.50	1.375	10.345	22.197	47.162
1.75	1.625	11.300	24.246	71.409
2.00	1.875	7.196	15.440	86.849
2.25	2.125	3.523	7.559	94.408
2.50	2.375	1.105	2.371	96.779
2.75	2.625	0.692	1.485	98.264
3.00	2.875	0.422	0.905	99.170
3.25	3.125	0.259	0.556	99.725
3.50	3.375	0.093	0.200	99.925
3.75	3.625	0.026	0.056	99.981
4.00	3.875	0.009	0.019	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5314	phi	(0.3459 mm)
Standard Dev:	0.4847	phi-units	(0.7146 mm)
Skewness:	0.3408	dimensionless	
Kurtosis:	4.1681	dimensionless	
5th Moment:	5.2074	dimensionless	
6th Moment:	33.9351	dimensionless	
RARD *	0.3165	dimensionless	
Median	1.4043	phi	(0.3778 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
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Millimeter data calculated by $mm = 2^{(-\phi)}$	

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