

Onshore Grab Sample

Sample: IR-24-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/30/08
Splits? N/A

County: Indian River
Latitude: 27° 34' 00.6"
Longitude: 80° 19' 27.0"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 58.446 grams
Total Fines in Sample 0.083 grams
Total Percent Fines 0.14 %

Dry Sieving Summary

Total Sample Weight 58.348 grams
Total Digested Weight 44.344 grams
Total Carbonate Weight 14.004 grams
Total Silica % 76.00 %
Total Carbonate % 24.00 %
Carbonate/Silica Ratio 0.316

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-24-BB

Total Sample Mass: 58.348 grams

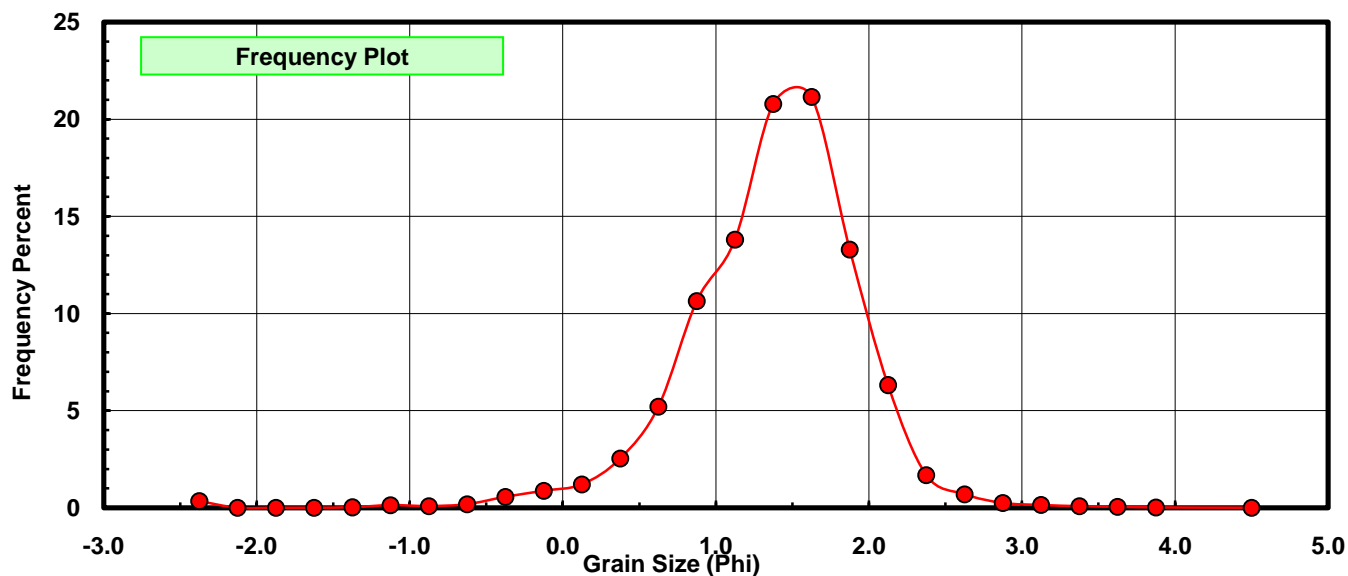
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.198	0.339	0.339
-2.00	-2.125	0.000	0.000	0.339
-1.75	-1.875	0.000	0.000	0.339
-1.50	-1.625	0.000	0.000	0.339
-1.25	-1.375	0.014	0.024	0.363
-1.00	-1.125	0.077	0.132	0.495
-0.75	-0.875	0.050	0.086	0.581
-0.50	-0.625	0.106	0.182	0.763
-0.25	-0.375	0.328	0.562	1.325
0.00	-0.125	0.509	0.872	2.197
0.25	0.125	0.702	1.203	3.400
0.50	0.375	1.476	2.530	5.930
0.75	0.625	3.034	5.200	11.130
1.00	0.875	6.205	10.634	21.764
1.25	1.125	8.053	13.802	35.566
1.50	1.375	12.125	20.780	56.346
1.75	1.625	12.340	21.149	77.495
2.00	1.875	7.754	13.289	90.785
2.25	2.125	3.685	6.316	97.100
2.50	2.375	0.979	1.678	98.778
2.75	2.625	0.406	0.696	99.474
3.00	2.875	0.144	0.247	99.721
3.25	3.125	0.082	0.141	99.861
3.50	3.375	0.045	0.077	99.938
3.75	3.625	0.028	0.048	99.986
4.00	3.875	0.008	0.014	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.3641	phi	(0.3885 mm)
Standard Dev:	0.5886	phi-units	(0.665 mm)
Skewness:	-1.2818	dimensionless	
Kurtosis:	9.0672	dimensionless	
5th Moment:	-40.3739	dimensionless	
6th Moment:	257.3518	dimensionless	
RARD *	0.4315	dimensionless	
Median	1.2986	phi	(0.4065 mm)

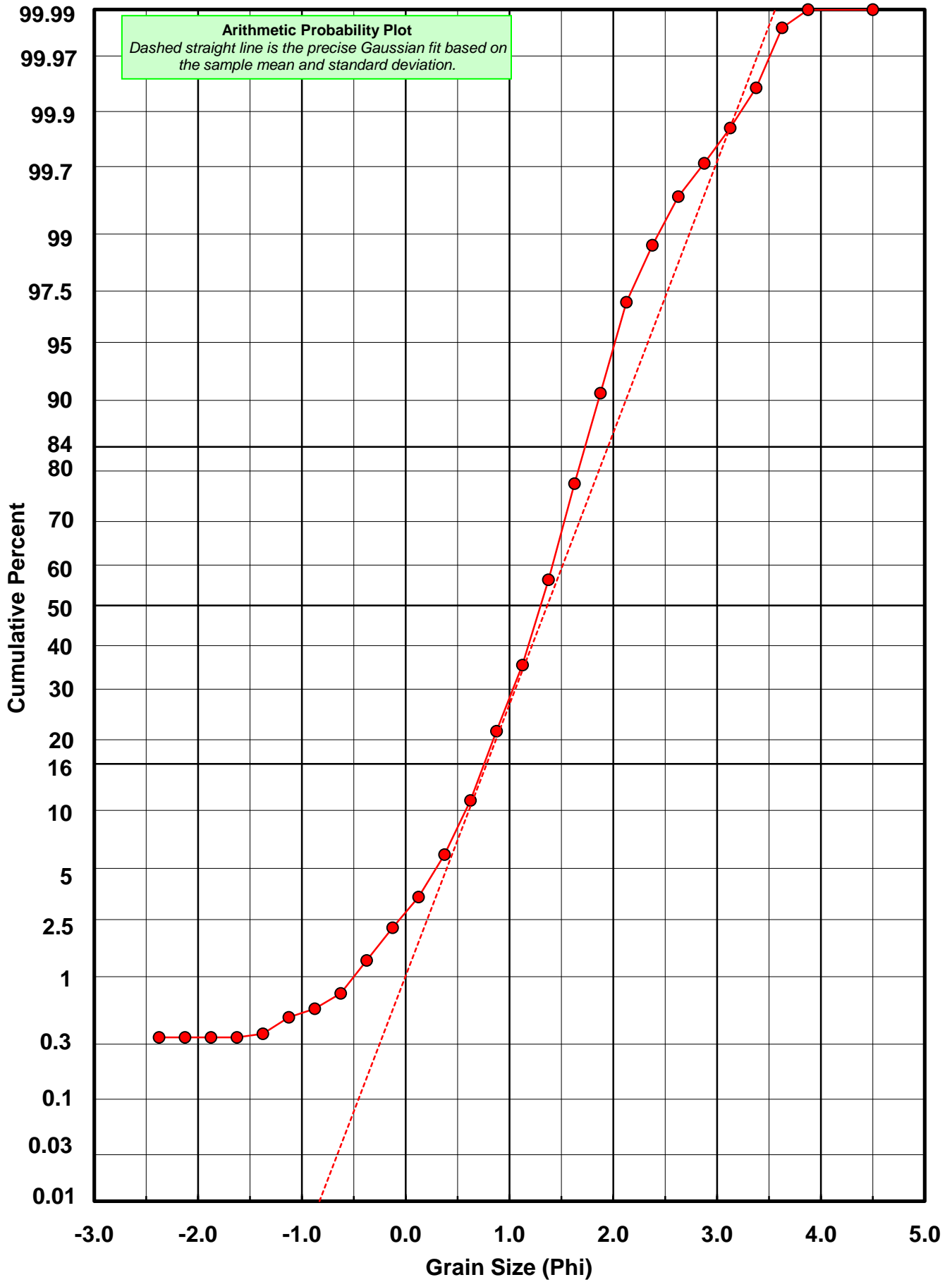
* RARD = reciprocal absolute relative dispersion (see below)

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-24-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: IR-24-BB

Total Carbonate Mass: 16.754 grams

% Carbonate: 24.0 %

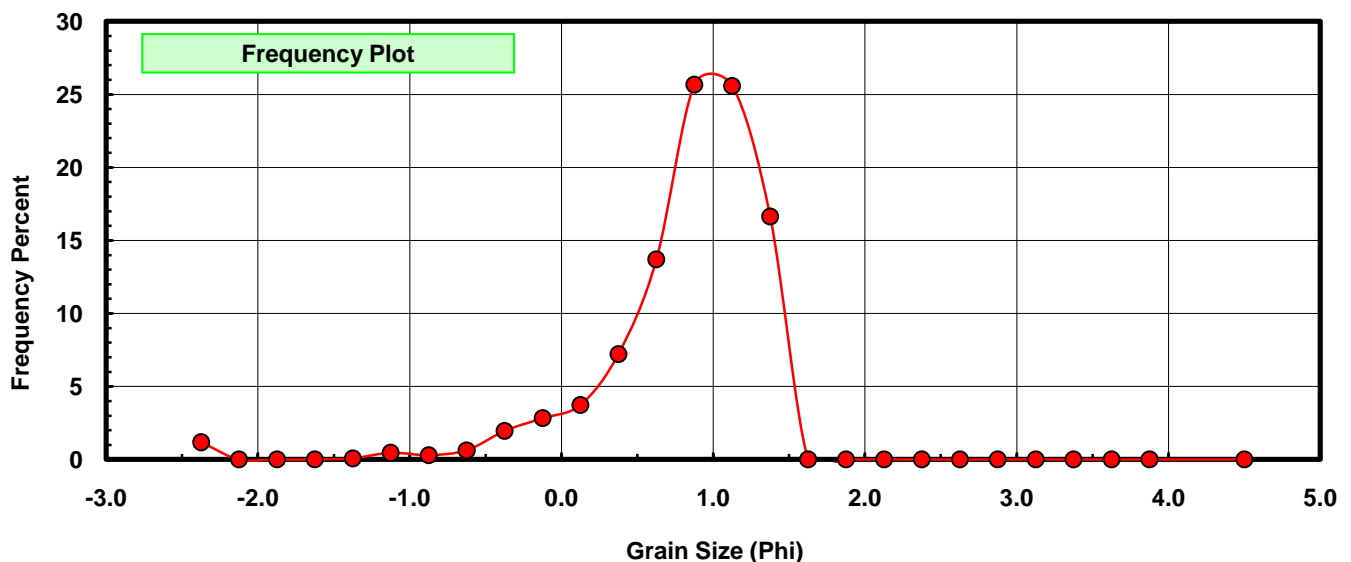
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.198	1.182	1.182
-2.00	-2.125	0.000	0.000	1.182
-1.75	-1.875	0.000	0.000	1.182
-1.50	-1.625	0.000	0.000	1.182
-1.25	-1.375	0.014	0.084	1.265
-1.00	-1.125	0.077	0.460	1.725
-0.75	-0.875	0.050	0.298	2.023
-0.50	-0.625	0.106	0.633	2.656
-0.25	-0.375	0.328	1.958	4.614
0.00	-0.125	0.474	2.829	7.443
0.25	0.125	0.627	3.742	11.185
0.50	0.375	1.211	7.228	18.414
0.75	0.625	2.295	13.698	32.112
1.00	0.875	4.299	25.660	57.771
1.25	1.125	4.287	25.588	83.359
1.50	1.375	2.788	16.641	100.000
1.75	1.625	0.000	0.000	100.000
2.00	1.875	0.000	0.000	100.000
2.25	2.125	0.000	0.000	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	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:	0.8068	phi	(0.5717 mm)
Standard Dev:	0.5927	phi-units	(0.6631 mm)
Skewness:	-2.5032	dimensionless	
Kurtosis:	12.3653	dimensionless	
5th Moment:	-60.4563	dimensionless	
6th Moment:	313.8856	dimensionless	
RARD *	0.7347	dimensionless	
Median	0.7993	phi	(0.5746 mm)

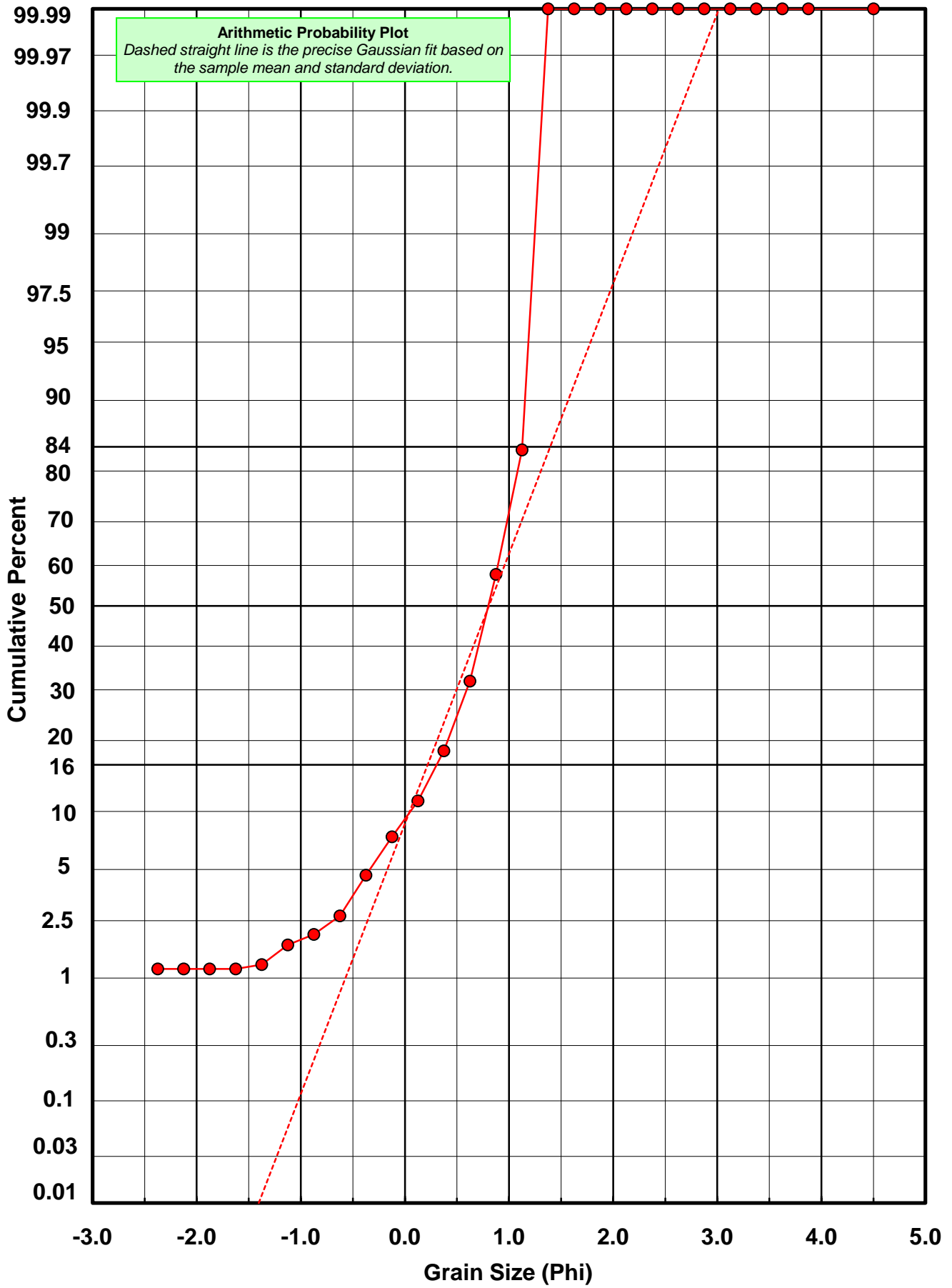
* RARD = reciprocal absolute relative dispersion (see below)

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-24-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-24-BB

Total Digested Mass: 44.344 grams

% Silica: 76.0 %

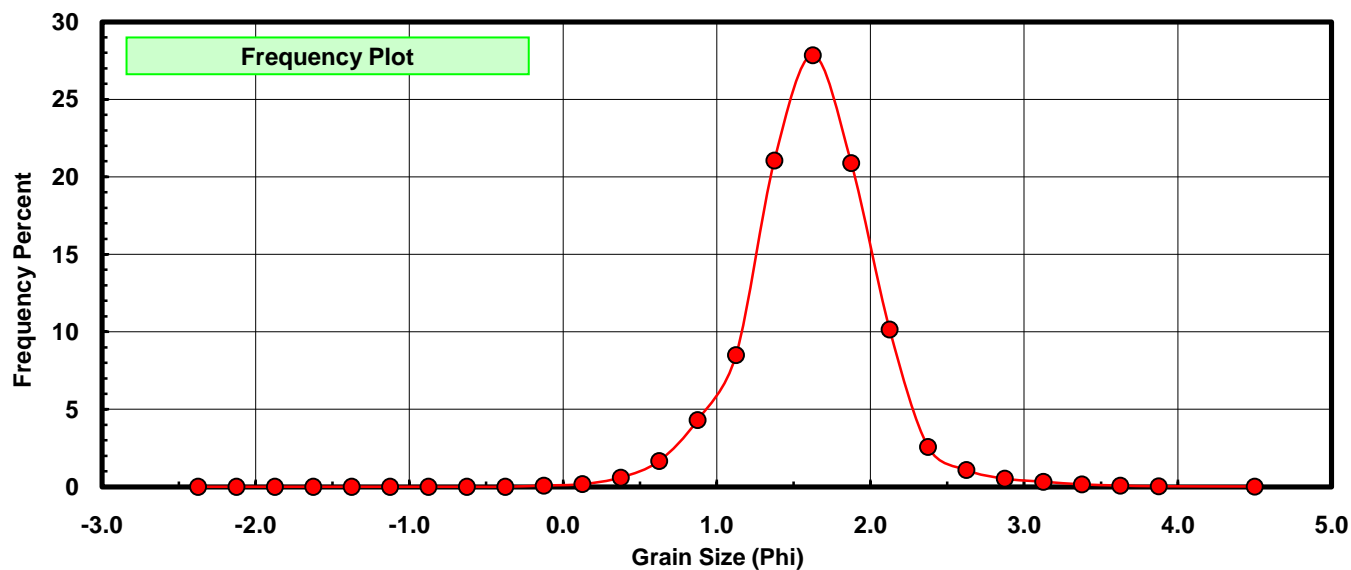
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.035	0.079	0.079
0.25	0.125	0.075	0.169	0.248
0.50	0.375	0.265	0.598	0.846
0.75	0.625	0.739	1.667	2.512
1.00	0.875	1.906	4.298	6.810
1.25	1.125	3.766	8.493	15.303
1.50	1.375	9.337	21.056	36.359
1.75	1.625	12.348	27.846	64.205
2.00	1.875	9.259	20.880	85.085
2.25	2.125	4.497	10.141	95.226
2.50	2.375	1.140	2.571	97.797
2.75	2.625	0.477	1.076	98.872
3.00	2.875	0.231	0.521	99.393
3.25	3.125	0.144	0.325	99.718
3.50	3.375	0.068	0.153	99.871
3.75	3.625	0.035	0.079	99.950
4.00	3.875	0.014	0.032	99.982
5.00	4.500	0.008	0.018	100.000

Statistical Results			
Mean:	1.6194	phi	(0.3255 mm)
Standard Dev:	0.4301	phi-units	(0.7422 mm)
Skewness:	0.1775	dimensionless	
Kurtosis:	5.0805	dimensionless	
5th Moment:	6.6649	dimensionless	
6th Moment:	65.4653	dimensionless	
RARD *	0.2656	dimensionless	
Median	1.4975	phi	(0.3542 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-24-BB

