

Onshore Grab Sample

Sample: IR-04-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/29/08
Splits? N/A

County: Indian River
Latitude: 27° 49' 17.9"
Longitude: 80° 25' 38.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 55.397 grams
Total Fines in Sample 0.307 grams
Total Percent Fines 0.55 %

Dry Sieving Summary

Total Sample Weight 55.163 grams
Total Digested Weight 19.039 grams
Total Carbonate Weight 36.124 grams
Total Silica % 34.51 %
Total Carbonate % 65.49 %
Carbonate/Silica Ratio 1.897

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-04-BB

Total Sample Mass: 55.163 grams

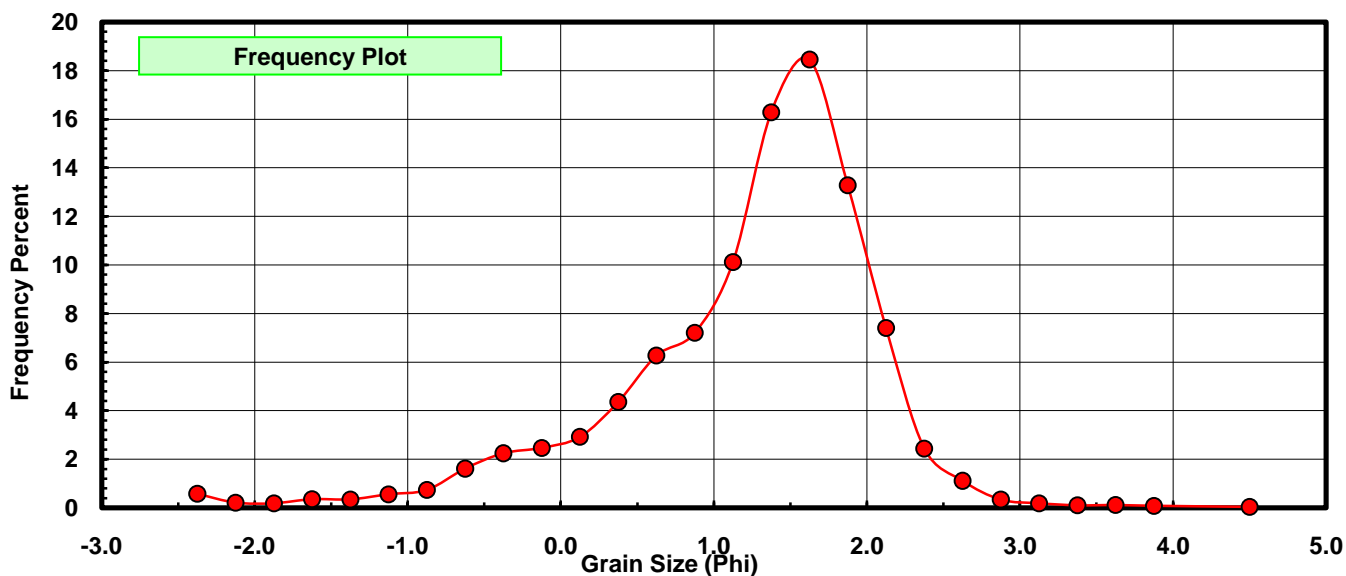
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.318	0.576	0.576
-2.00	-2.125	0.119	0.216	0.792
-1.75	-1.875	0.103	0.187	0.979
-1.50	-1.625	0.196	0.355	1.334
-1.25	-1.375	0.192	0.348	1.682
-1.00	-1.125	0.308	0.558	2.241
-0.75	-0.875	0.406	0.736	2.977
-0.50	-0.625	0.890	1.613	4.590
-0.25	-0.375	1.239	2.246	6.836
0.00	-0.125	1.361	2.467	9.303
0.25	0.125	1.610	2.919	12.222
0.50	0.375	2.403	4.356	16.578
0.75	0.625	3.456	6.265	22.843
1.00	0.875	3.972	7.200	30.044
1.25	1.125	5.581	10.117	40.161
1.50	1.375	8.984	16.286	56.447
1.75	1.625	10.179	18.453	74.900
2.00	1.875	7.326	13.281	88.180
2.25	2.125	4.083	7.402	95.582
2.50	2.375	1.347	2.442	98.024
2.75	2.625	0.614	1.113	99.137
3.00	2.875	0.186	0.337	99.474
3.25	3.125	0.103	0.187	99.661
3.50	3.375	0.057	0.103	99.764
3.75	3.625	0.063	0.114	99.879
4.00	3.875	0.046	0.083	99.962
5.00	4.50	0.021	0.038	100.000

Statistical Results			
Mean:	1.2147	phi	(0.4309 mm)
Standard Dev:	0.8622	phi-units	(0.5501 mm)
Skewness:	-1.1935	dimensionless	
Kurtosis:	5.4142	dimensionless	
5th Moment:	-14.2805	dimensionless	
6th Moment:	59.6522	dimensionless	
RARD *	0.7098	dimensionless	
Median	1.2760	phi	(0.4129 mm)

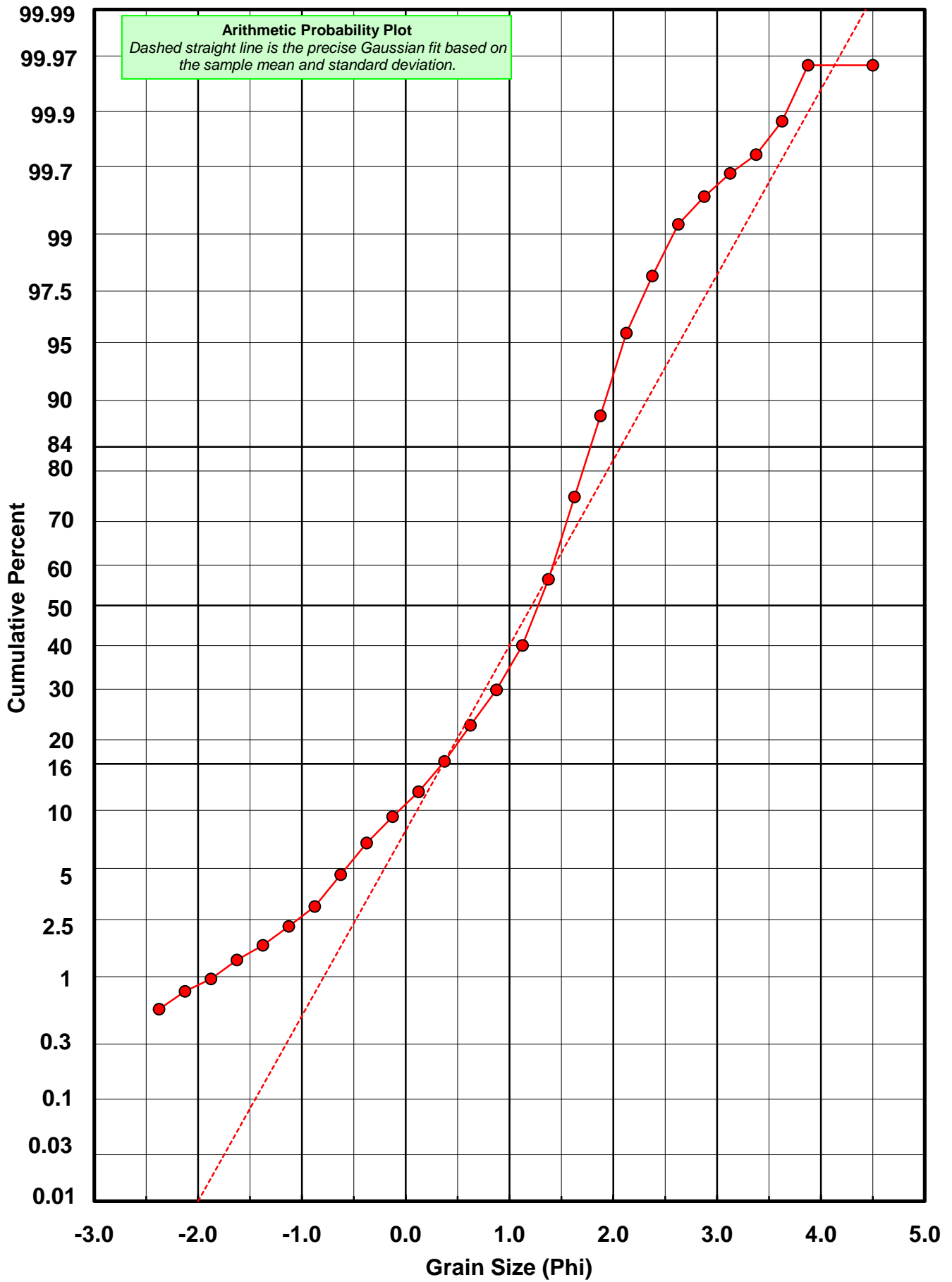
* RARD = reciprocal absolute relative dispersion (see below)

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-04-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: IR-04-BB

Total Carbonate Mass: 36.138 grams

% Carbonate: 65.5 %

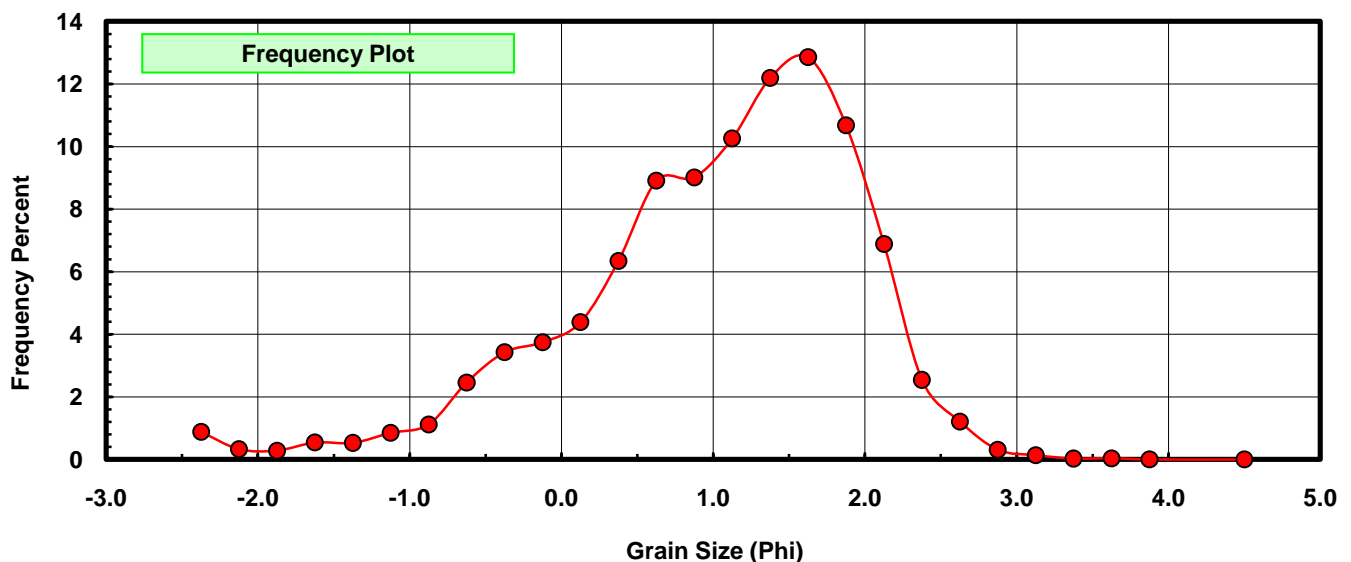
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.318	0.880	0.880
-2.00	-2.125	0.119	0.329	1.209
-1.75	-1.875	0.103	0.285	1.494
-1.50	-1.625	0.196	0.542	2.037
-1.25	-1.375	0.192	0.531	2.568
-1.00	-1.125	0.308	0.852	3.420
-0.75	-0.875	0.406	1.123	4.544
-0.50	-0.625	0.890	2.463	7.006
-0.25	-0.375	1.239	3.429	10.435
0.00	-0.125	1.354	3.747	14.182
0.25	0.125	1.586	4.389	18.570
0.50	0.375	2.294	6.348	24.918
0.75	0.625	3.219	8.908	33.826
1.00	0.875	3.259	9.018	42.844
1.25	1.125	3.708	10.261	53.105
1.50	1.375	4.407	12.195	65.300
1.75	1.625	4.646	12.856	78.156
2.00	1.875	3.860	10.681	88.837
2.25	2.125	2.488	6.885	95.722
2.50	2.375	0.920	2.546	98.268
2.75	2.625	0.439	1.215	99.483
3.00	2.875	0.113	0.313	99.795
3.25	3.125	0.049	0.136	99.931
3.50	3.375	0.011	0.030	99.961
3.75	3.625	0.014	0.039	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:	1.0088	phi	(0.497 mm)
Standard Dev:	0.9569	phi-units	(0.5151 mm)
Skewness:	-0.9182	dimensionless	
Kurtosis:	4.0144	dimensionless	
5th Moment:	-9.1400	dimensionless	
6th Moment:	31.9711	dimensionless	
RARD *	0.9486	dimensionless	
Median	1.0494	phi	(0.4832 mm)

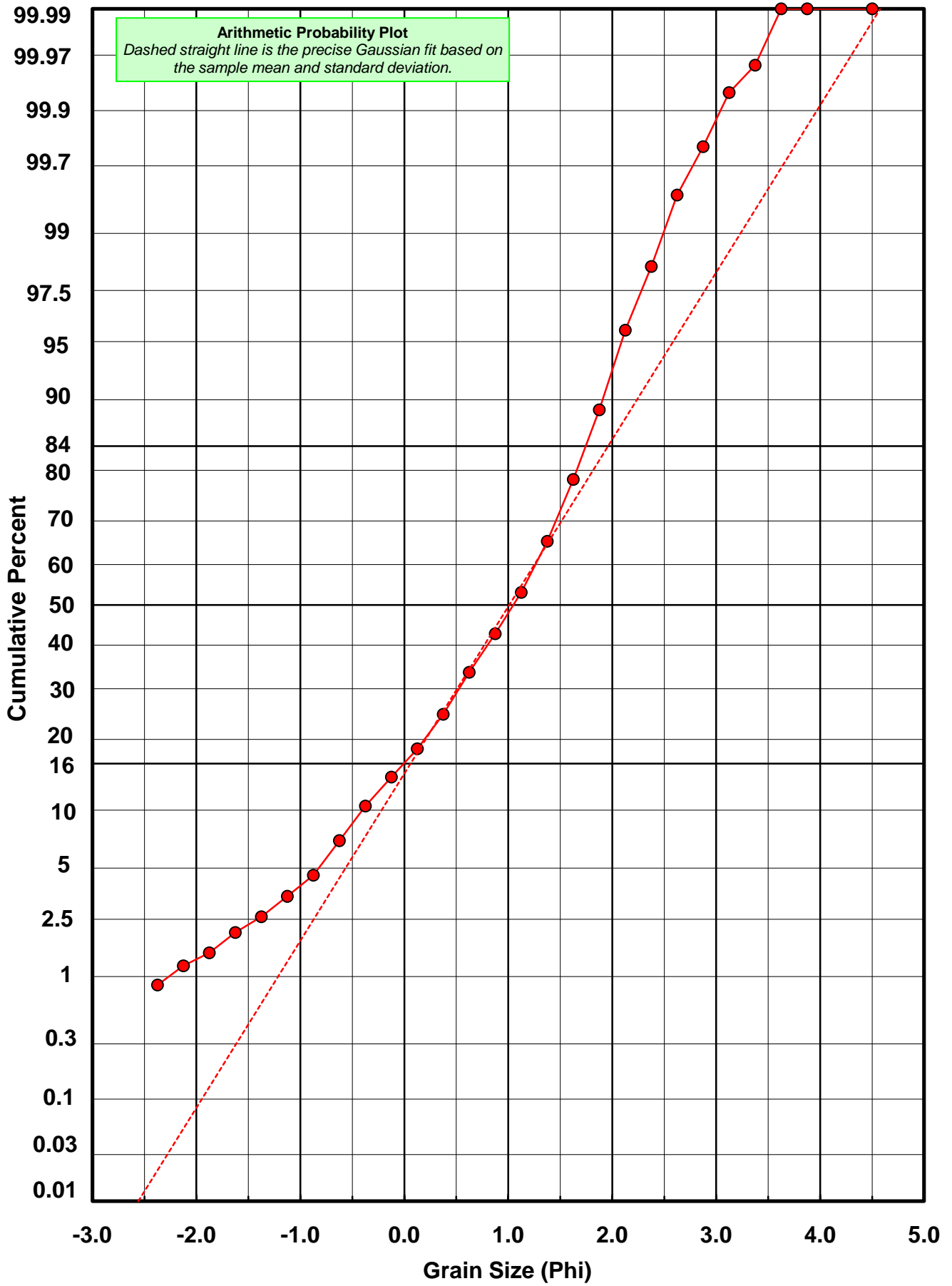
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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IR-04-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-04-BB

Total Digested Mass: 19.039 grams

% Silica: 34.5 %

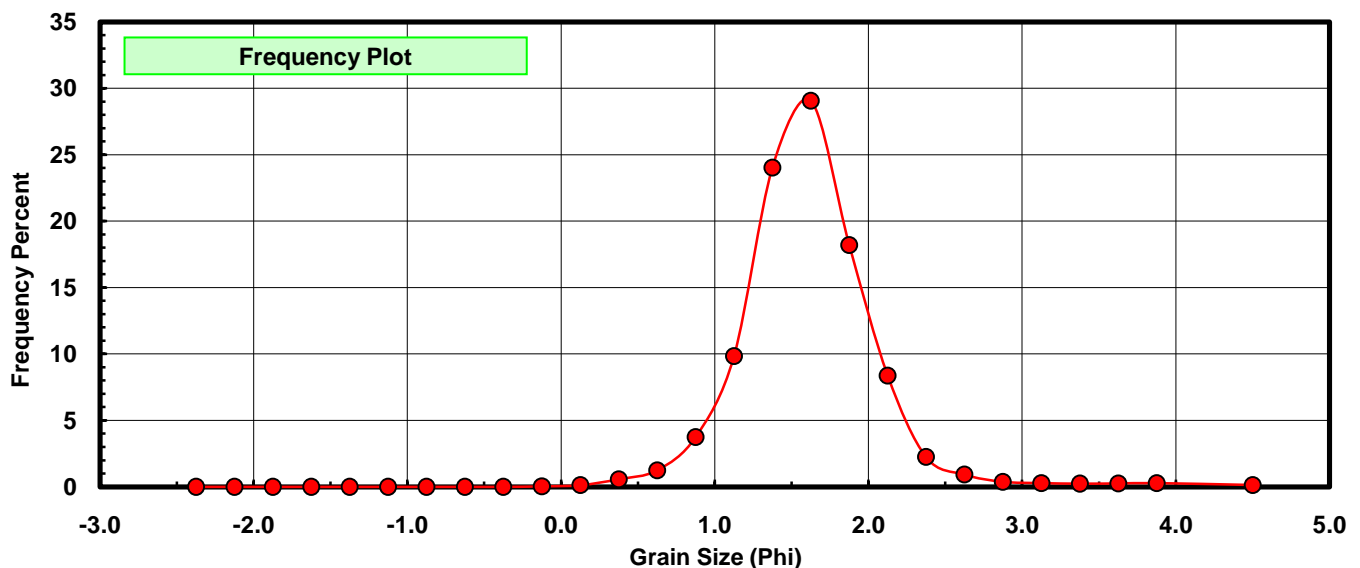
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.007	0.037	0.037
0.25	0.125	0.024	0.126	0.163
0.50	0.375	0.109	0.573	0.735
0.75	0.625	0.237	1.245	1.980
1.00	0.875	0.713	3.745	5.725
1.25	1.125	1.873	9.838	15.563
1.50	1.375	4.577	24.040	39.603
1.75	1.625	5.533	29.061	68.664
2.00	1.875	3.466	18.205	86.869
2.25	2.125	1.595	8.378	95.247
2.50	2.375	0.427	2.243	97.489
2.75	2.625	0.175	0.919	98.409
3.00	2.875	0.073	0.383	98.792
3.25	3.125	0.054	0.284	99.076
3.50	3.375	0.046	0.242	99.317
3.75	3.625	0.049	0.257	99.575
4.00	3.875	0.054	0.284	99.858
5.00	4.500	0.027	0.142	100.000

Statistical Results			
Mean:	1.6078	phi	(0.3281 mm)
Standard Dev:	0.4548	phi-units	(0.7296 mm)
Skewness:	1.0880	dimensionless	
Kurtosis:	8.4060	dimensionless	
5th Moment:	31.7699	dimensionless	
6th Moment:	189.6215	dimensionless	
RARD *	0.2829	dimensionless	
Median	1.4644	phi	(0.3624 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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