

Onshore Grab Sample

Sample: IR-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/29/08
Splits? N/A

County: Indian River
Latitude: 27° 50' 46.0"
Longitude: 80° 26' 24.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 51.641 grams
Total Fines in Sample 0.545 grams
Total Percent Fines 1.04 %

Dry Sieving Summary

Total Sample Weight 50.863 grams
Total Digested Weight 39.958 grams
Total Carbonate Weight 10.905 grams
Total Silica % 78.56 %
Total Carbonate % 21.44 %
Carbonate/Silica Ratio 0.273

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-02-BB

Total Sample Mass: 50.863 grams

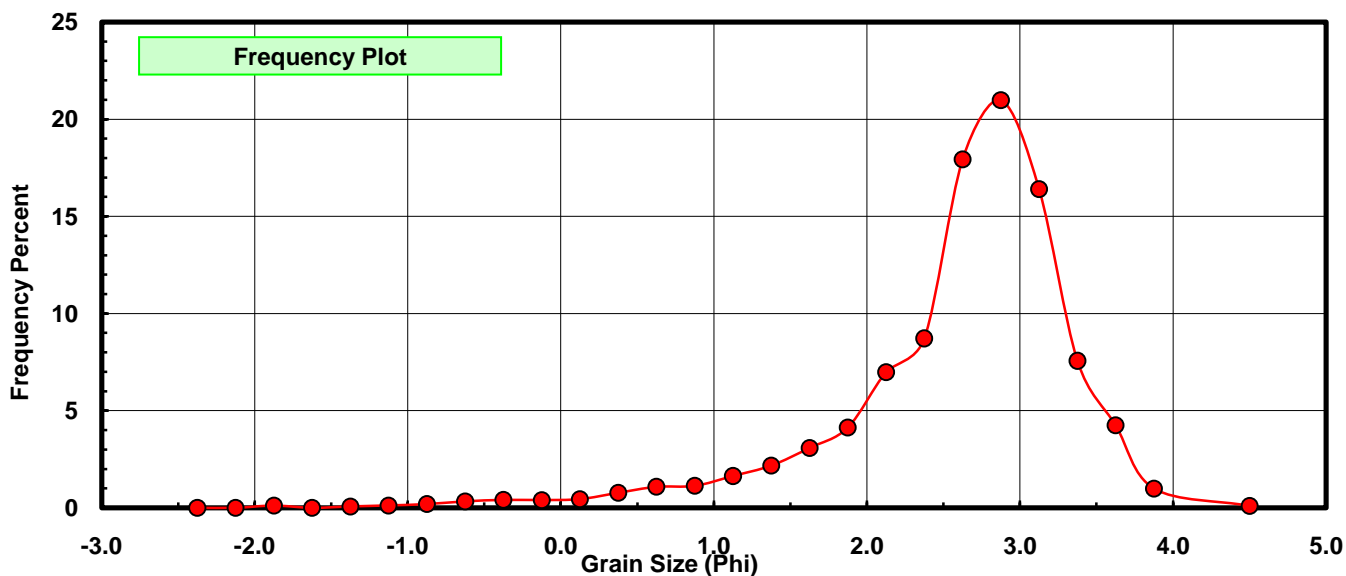
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.058	0.114	0.114
-1.50	-1.625	0.000	0.000	0.114
-1.25	-1.375	0.035	0.069	0.183
-1.00	-1.125	0.062	0.122	0.305
-0.75	-0.875	0.097	0.191	0.495
-0.50	-0.625	0.168	0.330	0.826
-0.25	-0.375	0.207	0.407	1.233
0.00	-0.125	0.203	0.399	1.632
0.25	0.125	0.227	0.446	2.078
0.50	0.375	0.392	0.771	2.849
0.75	0.625	0.549	1.079	3.928
1.00	0.875	0.574	1.129	5.057
1.25	1.125	0.833	1.638	6.694
1.50	1.375	1.105	2.173	8.867
1.75	1.625	1.568	3.083	11.950
2.00	1.875	2.100	4.129	16.078
2.25	2.125	3.551	6.981	23.060
2.50	2.375	4.435	8.720	31.779
2.75	2.625	9.121	17.932	49.712
3.00	2.875	10.672	20.982	70.694
3.25	3.125	8.341	16.399	87.093
3.50	3.375	3.849	7.567	94.660
3.75	3.625	2.159	4.245	98.905
4.00	3.875	0.506	0.995	99.900
5.00	4.50	0.051	0.100	100.000

Statistical Results			
Mean:	2.5799	phi	(0.1673 mm)
Standard Dev:	0.7984	phi-units	(0.575 mm)
Skewness:	-1.7074	dimensionless	
Kurtosis:	7.2439	dimensionless	
5th Moment:	-26.3698	dimensionless	
6th Moment:	114.0846	dimensionless	
RARD *	0.3095	dimensionless	
Median	2.6284	phi	(0.1617 mm)

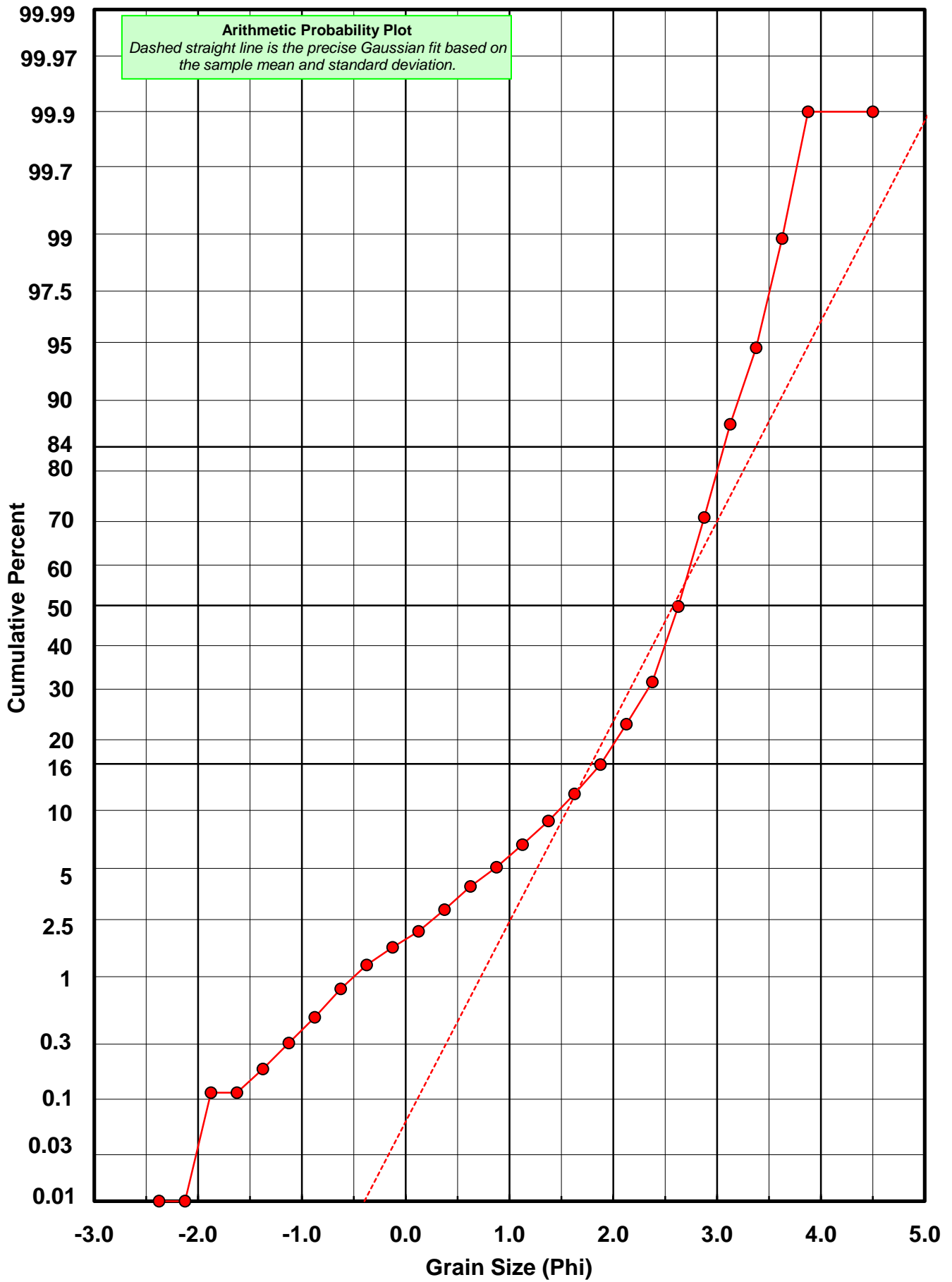
* RARD = reciprocal absolute relative dispersion (see below)

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-02-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: IR-02-BB

Total Carbonate Mass: 11.076 grams

% Carbonate: 21.4 %

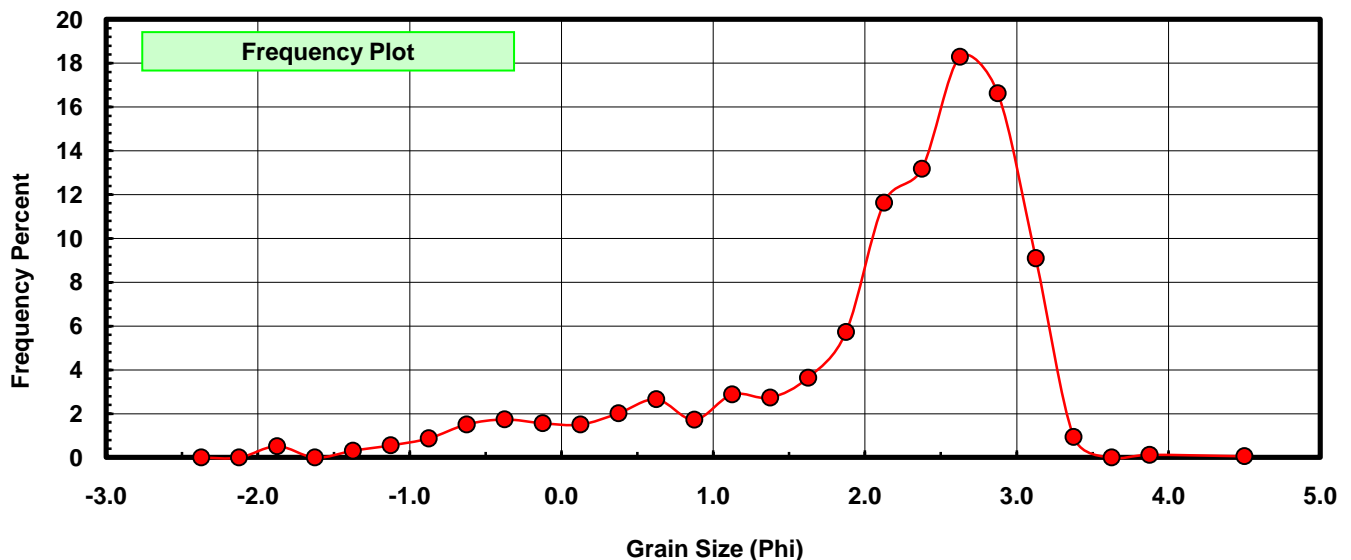
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.058	0.524	0.524
-1.50	-1.625	0.000	0.000	0.524
-1.25	-1.375	0.035	0.316	0.840
-1.00	-1.125	0.062	0.560	1.399
-0.75	-0.875	0.097	0.876	2.275
-0.50	-0.625	0.168	1.517	3.792
-0.25	-0.375	0.193	1.743	5.534
0.00	-0.125	0.174	1.571	7.105
0.25	0.125	0.167	1.508	8.613
0.50	0.375	0.224	2.022	10.636
0.75	0.625	0.295	2.663	13.299
1.00	0.875	0.191	1.724	15.023
1.25	1.125	0.320	2.889	17.913
1.50	1.375	0.303	2.736	20.648
1.75	1.625	0.404	3.648	24.296
2.00	1.875	0.635	5.733	30.029
2.25	2.125	1.288	11.629	41.658
2.50	2.375	1.460	13.182	54.839
2.75	2.625	2.026	18.292	73.131
3.00	2.875	1.842	16.631	89.762
3.25	3.125	1.008	9.101	98.862
3.50	3.375	0.105	0.948	99.810
3.75	3.625	0.000	0.000	99.810
4.00	3.875	0.014	0.126	99.937
5.00	4.500	0.007	0.063	100.000

Statistical Results			
Mean:	2.0746	phi	(0.2374 mm)
Standard Dev:	1.0936	phi-units	(0.4686 mm)
Skewness:	-1.4120	dimensionless	
Kurtosis:	4.3064	dimensionless	
5th Moment:	-10.9567	dimensionless	
6th Moment:	32.4045	dimensionless	
RARD *	0.5271	dimensionless	
Median	2.2832	phi	(0.2054 mm)

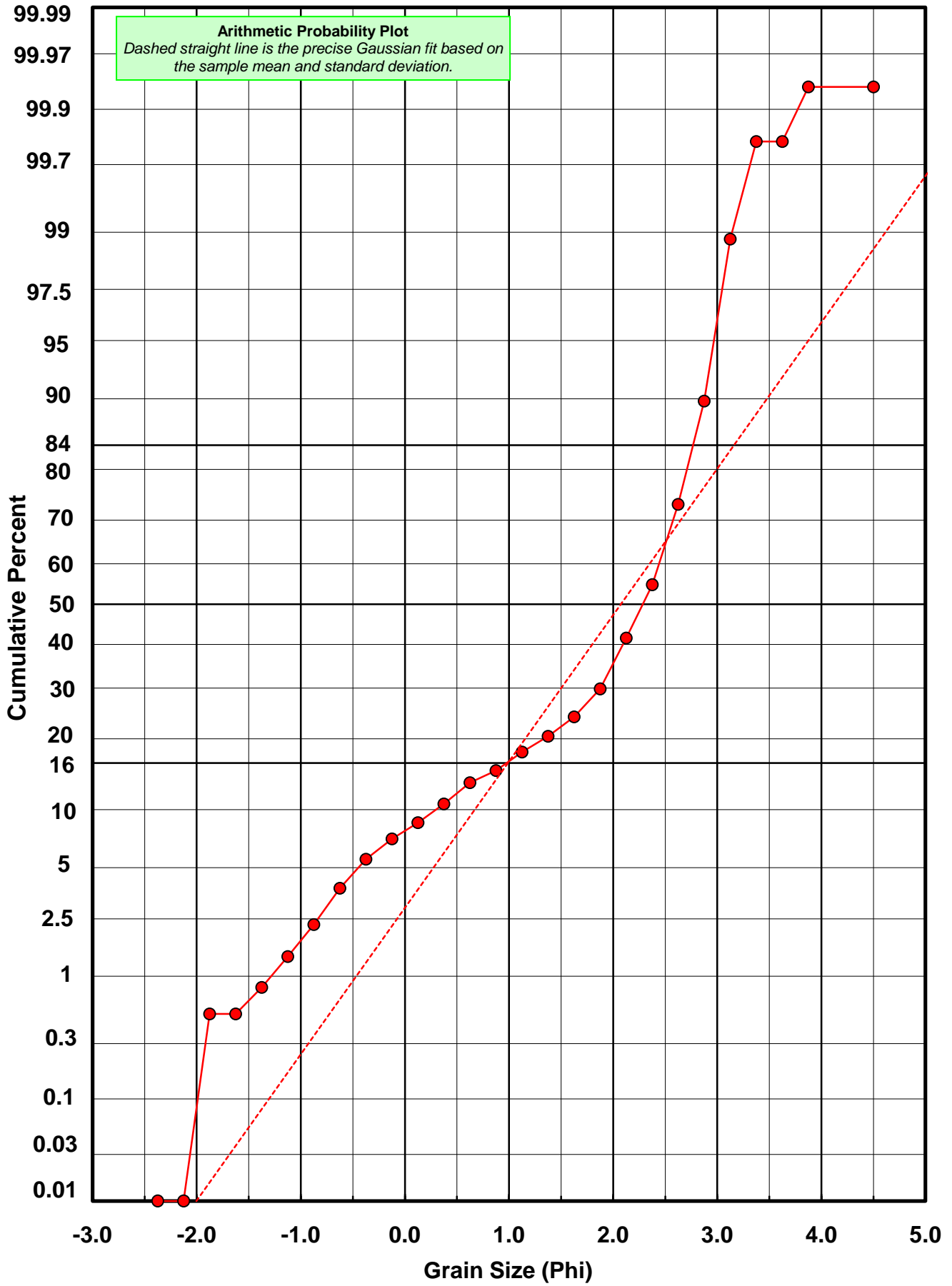
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated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

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IR-02-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-02-BB

Total Digested Mass: 39.958 grams

% Silica: 78.6 %

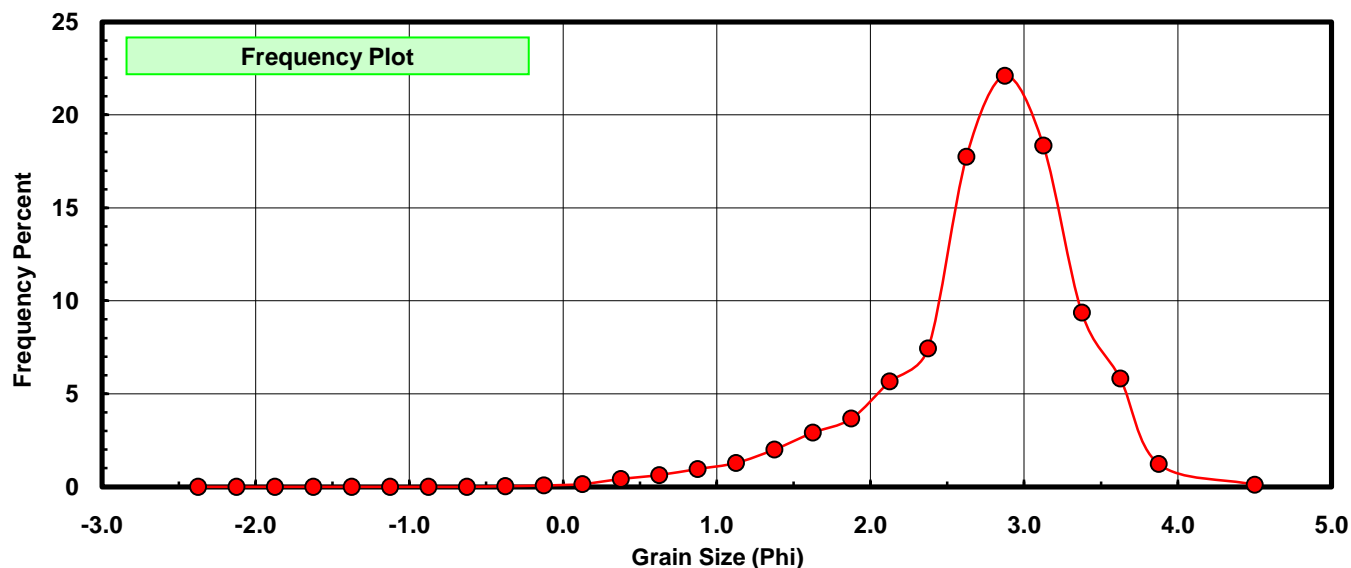
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.014	0.035	0.035
0.00	-0.125	0.029	0.073	0.108
0.25	0.125	0.060	0.150	0.258
0.50	0.375	0.168	0.420	0.678
0.75	0.625	0.254	0.636	1.314
1.00	0.875	0.383	0.959	2.272
1.25	1.125	0.513	1.284	3.556
1.50	1.375	0.802	2.007	5.563
1.75	1.625	1.164	2.913	8.476
2.00	1.875	1.465	3.666	12.143
2.25	2.125	2.263	5.663	17.806
2.50	2.375	2.975	7.445	25.252
2.75	2.625	7.095	17.756	43.008
3.00	2.875	8.830	22.098	65.106
3.25	3.125	7.333	18.352	83.458
3.50	3.375	3.744	9.370	92.827
3.75	3.625	2.330	5.831	98.659
4.00	3.875	0.492	1.231	99.890
5.00	4.500	0.044	0.110	100.000

Statistical Results			
Mean:	2.7244	phi	(0.1513 mm)
Standard Dev:	0.6460	phi-units	(0.6391 mm)
Skewness:	-1.1425	dimensionless	
Kurtosis:	4.8629	dimensionless	
5th Moment:	-12.6066	dimensionless	
6th Moment:	46.6253	dimensionless	
RARD *	0.2371	dimensionless	
Median	2.7041	phi	(0.1535 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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