Onshore Grab Sample

Sample: IR-06-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/29/08
Splits? N/A

County: Indian River
Latitude: 27° 47' 46.9"
Longitude: 80° 24' 51.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	64.023	grams
Total Fines in Sample	0.192	grams
Total Percent Fines	0.30	%

Dry Sieving Summary

Total Sample Weight	63.865	grams
Total Digested Weight	45.763	grams
Total Carbonate Weight	18.102	grams
Total Silica %	71.66	%
Total Carbonate %	28.34	%
Carbonate/Silica Ratio	0.396	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-06-BB

Total Sample Mass: 63.865 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	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.005	0.008	0.008
-0.75	-0.875	0.000	0.000	0.008
-0.50	-0.625	0.027	0.042	0.050
-0.25	-0.375	0.020	0.031	0.081
0.00	-0.125	0.037	0.058	0.139
0.25	0.125	0.082	0.128	0.268
0.50	0.375	0.283	0.443	0.711
0.75	0.625	1.069	1.674	2.385
1.00	0.875	2.490	3.899	6.284
1.25	1.125	5.363	8.397	14.681
1.50	1.375	12.745	19.956	34.637
1.75	1.625	17.445	27.315	61.953
2.00	1.875	14.257	22.324	84.276
2.25	2.125	7.016	10.986	95.262
2.50	2.375	1.808	2.831	98.093
2.75	2.625	0.741	1.160	99.253
3.00	2.875	0.264	0.413	99.666
3.25	3.125	0.126	0.197	99.864
3.50	3.375	0.051	0.080	99.944
3.75	3.625	0.029	0.045	99.989
4.00	3.875	0.007	0.011	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.6311	phi	(0.3228 mm)
Standard Dev:	0.4184	phi-units	(0.7482 mm)
Skewness:	-0.1435	dimensionless	
Kurtosis:	4.7841	dimensionless	
5th Moment:	-2.3126	dimensionless	
6th Moment:	57.9030	dimensionless	
RARD *	0.2565	dimensionless	
Median	1.5156	phi	(0.3497 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

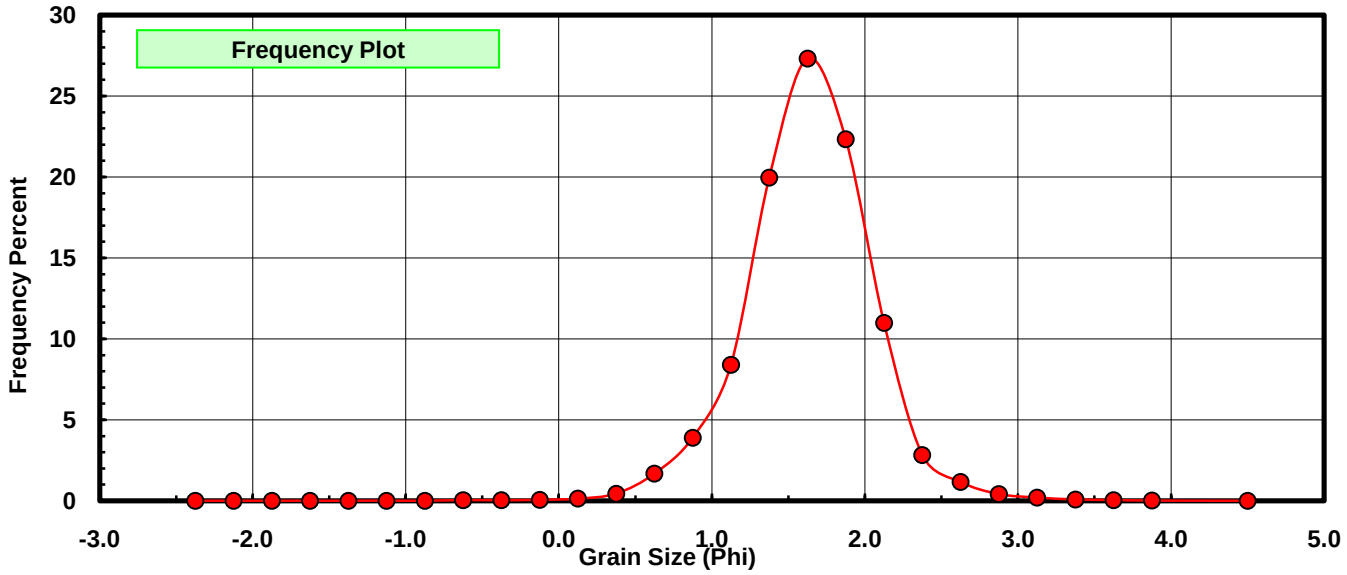
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

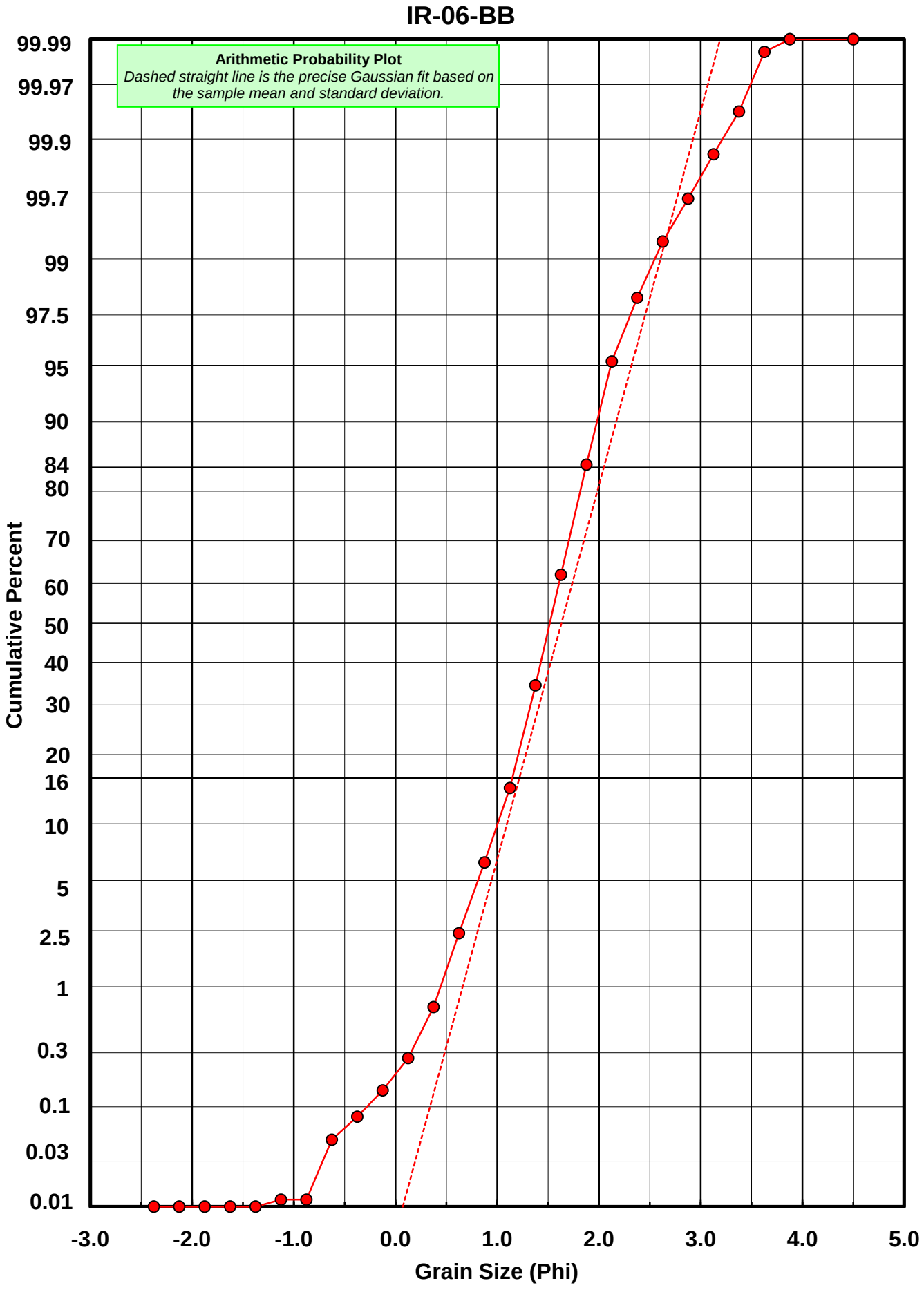
For Further Explanation, See Basillle et al. 2002

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-06-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: IR-06-BB

Total Carbonate Mass: 18.103 grams

% Carbonate: 28.3 %

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	0.005	0.028	0.028
-0.75	-0.875	0.000	0.000	0.028
-0.50	-0.625	0.027	0.149	0.177
-0.25	-0.375	0.020	0.110	0.287
0.00	-0.125	0.036	0.199	0.486
0.25	0.125	0.078	0.431	0.917
0.50	0.375	0.245	1.353	2.270
0.75	0.625	0.830	4.585	6.855
1.00	0.875	1.167	6.446	13.302
1.25	1.125	1.880	10.385	23.687
1.50	1.375	3.499	19.328	43.015
1.75	1.625	3.862	21.333	64.348
2.00	1.875	3.872	21.389	85.737
2.25	2.125	1.790	9.888	95.625
2.50	2.375	0.535	2.955	98.580
2.75	2.625	0.193	1.066	99.646
3.00	2.875	0.040	0.221	99.867
3.25	3.125	0.010	0.055	99.923
3.50	3.375	0.000	0.000	99.923
3.75	3.625	0.014	0.077	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:	1.5382	phi	(0.3443 mm)
Standard Dev:	0.5006	phi-units	(0.7068 mm)
Skewness:	-0.4958	dimensionless	
Kurtosis:	3.9625	dimensionless	
5th Moment:	-5.7699	dimensionless	
6th Moment:	38.0232	dimensionless	
RARD *	0.3254	dimensionless	
Median	1.4569	phi	(0.3643 mm)

* RARD = reciprocal absolute relative dispersion (see below)

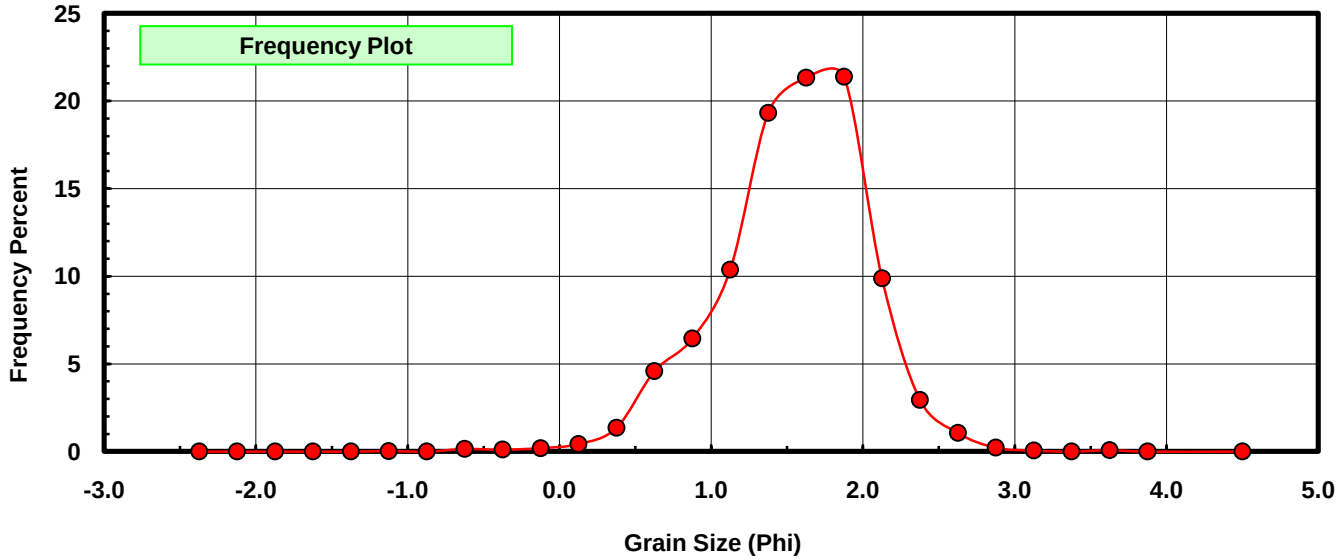
Statistical Explanation

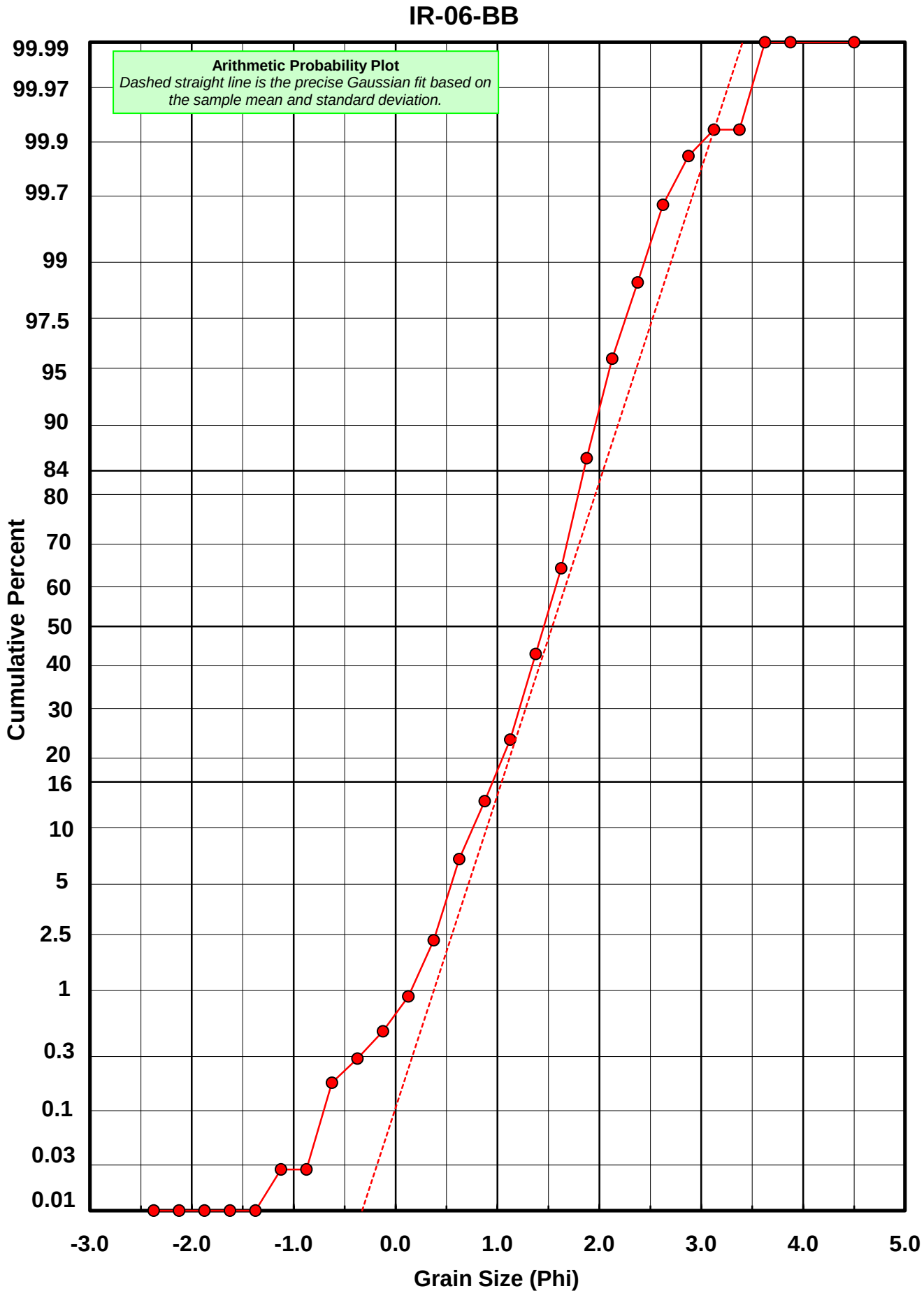
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle 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-06-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: IR-06-BB

Total Digested Mass: 45.763 grams

% Silica: 71.7 %

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	0.001	0.002	0.002
0.25	0.125	0.004	0.009	0.011
0.50	0.375	0.038	0.083	0.094
0.75	0.625	0.239	0.522	0.616
1.00	0.875	1.323	2.891	3.507
1.25	1.125	3.483	7.611	11.118
1.50	1.375	9.246	20.204	31.322
1.75	1.625	13.583	29.681	61.003
2.00	1.875	10.385	22.693	83.696
2.25	2.125	5.226	11.420	95.116
2.50	2.375	1.273	2.782	97.898
2.75	2.625	0.548	1.197	99.095
3.00	2.875	0.224	0.489	99.585
3.25	3.125	0.116	0.253	99.838
3.50	3.375	0.052	0.114	99.952
3.75	3.625	0.015	0.033	99.985
4.00	3.875	0.007	0.015	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6679	phi	(0.3147 mm)
Standard Dev:	0.3812	phi-units	(0.7678 mm)
Skewness:	0.3619	dimensionless	
Kurtosis:	4.4090	dimensionless	
5th Moment:	7.1504	dimensionless	
6th Moment:	46.3614	dimensionless	
RARD *	0.2285	dimensionless	
Median	1.5323	phi	(0.3457 mm)

* RARD = reciprocal absolute relative dispersion (see below)

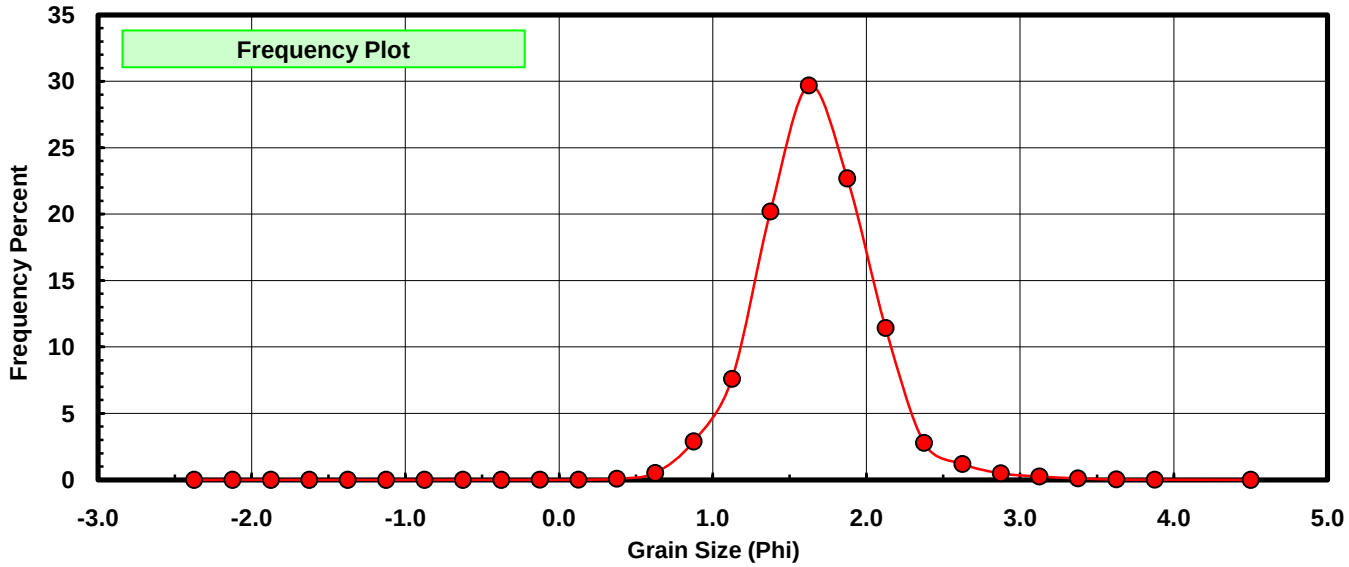
Statistical Explanation

Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

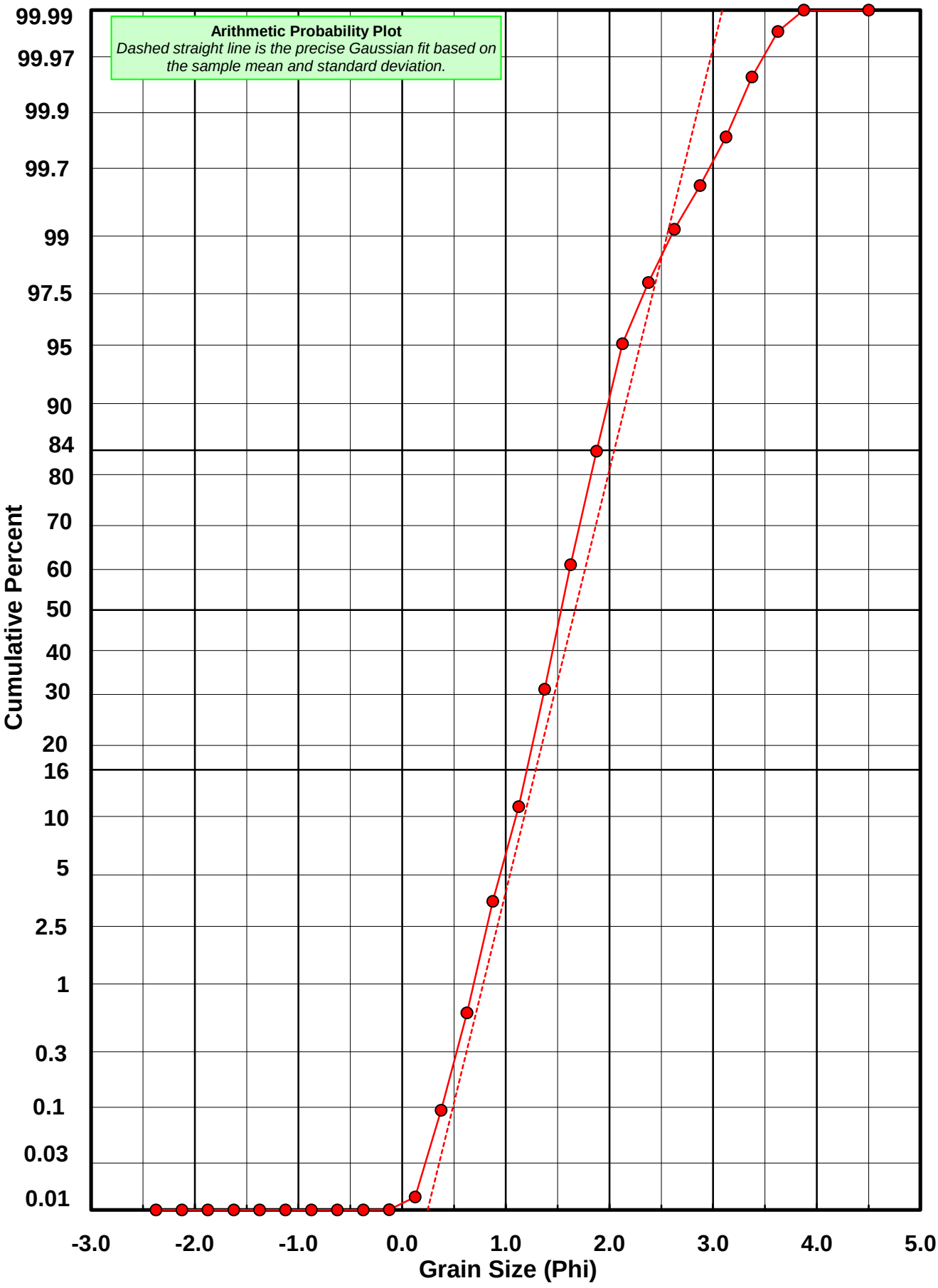
For Further Explanation, See Basillle et al. 2002

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-06-BB


Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)