Onshore Grab Sample

Sample: CR-31
Sample Taken By: D. Phelps
Sample Collected On: 1/27/10
Splits? N/A

County: Collier
Latitude: 25° 59' 18.9"
Longitude: 81° 44' 53.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	68.841	grams
Total Fines in Sample	0.700	grams
Total Percent Fines	1.01	%

Dry Sieving Summary

Total Sample Weight	68.178	grams
Total Digested Weight	65.889	grams
Total Carbonate Weight	2.289	grams
Total Silica %	96.64	%
Total Carbonate %	3.36	%
Carbonate/Silica Ratio	0.035	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-31

Total Sample Mass: 68.178 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	0.030	0.044	0.044
-0.75	-0.875	0.010	0.015	0.059
-0.50	-0.625	0.027	0.040	0.098
-0.25	-0.375	0.016	0.023	0.122
0.00	-0.125	0.038	0.056	0.177
0.25	0.125	0.037	0.054	0.232
0.50	0.375	0.044	0.065	0.296
0.75	0.625	0.046	0.067	0.364
1.00	0.875	0.097	0.142	0.506
1.25	1.125	0.090	0.132	0.638
1.50	1.375	0.143	0.210	0.848
1.75	1.625	0.244	0.358	1.206
2.00	1.875	0.643	0.943	2.149
2.25	2.125	2.274	3.335	5.484
2.50	2.375	7.921	11.618	17.102
2.75	2.625	24.044	35.267	52.369
3.00	2.875	25.058	36.754	89.123
3.25	3.125	6.363	9.333	98.456
3.50	3.375	0.896	1.314	99.770
3.75	3.625	0.124	0.182	99.952
4.00	3.875	0.023	0.034	99.985
5.00	4.50	0.010	0.015	100.000

Statistical Results			
Mean:	2.7026	phi	(0.1536 mm)
Standard Dev:	0.3394	phi-units	(0.7904 mm)
Skewness:	-2.9202	dimensionless	
Kurtosis:	25.5224	dimensionless	
5th Moment:	-216.6323	dimensionless	
6th Moment:	2081.6202	dimensionless	
RARD *	0.1256	dimensionless	
Median	2.6082	phi	(0.164 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

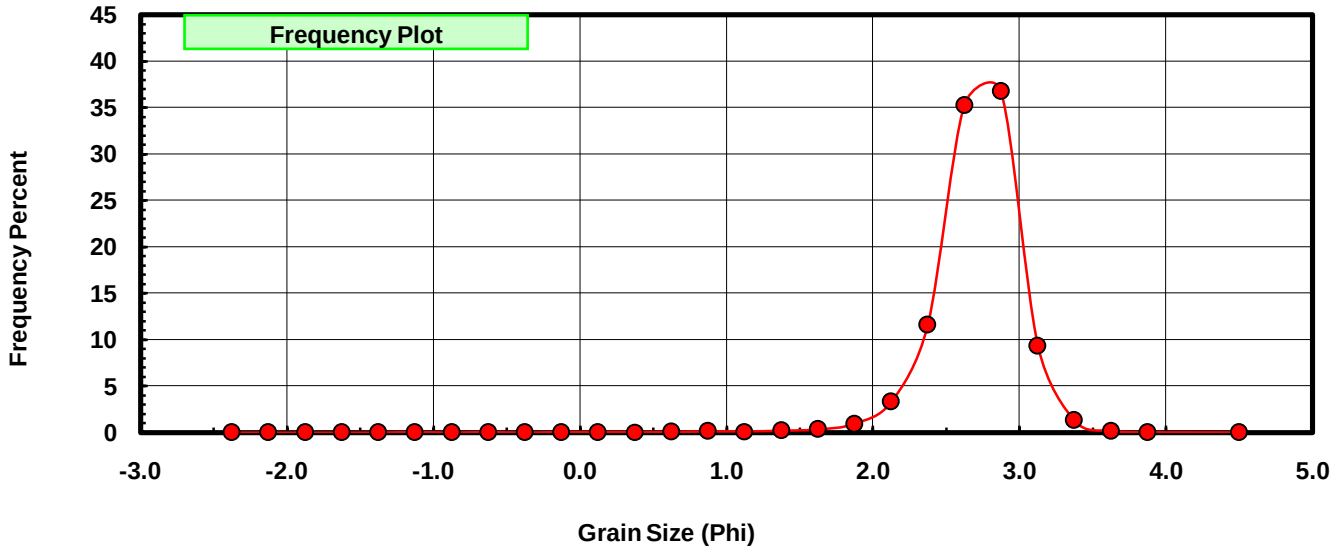
Statistical Explanation

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

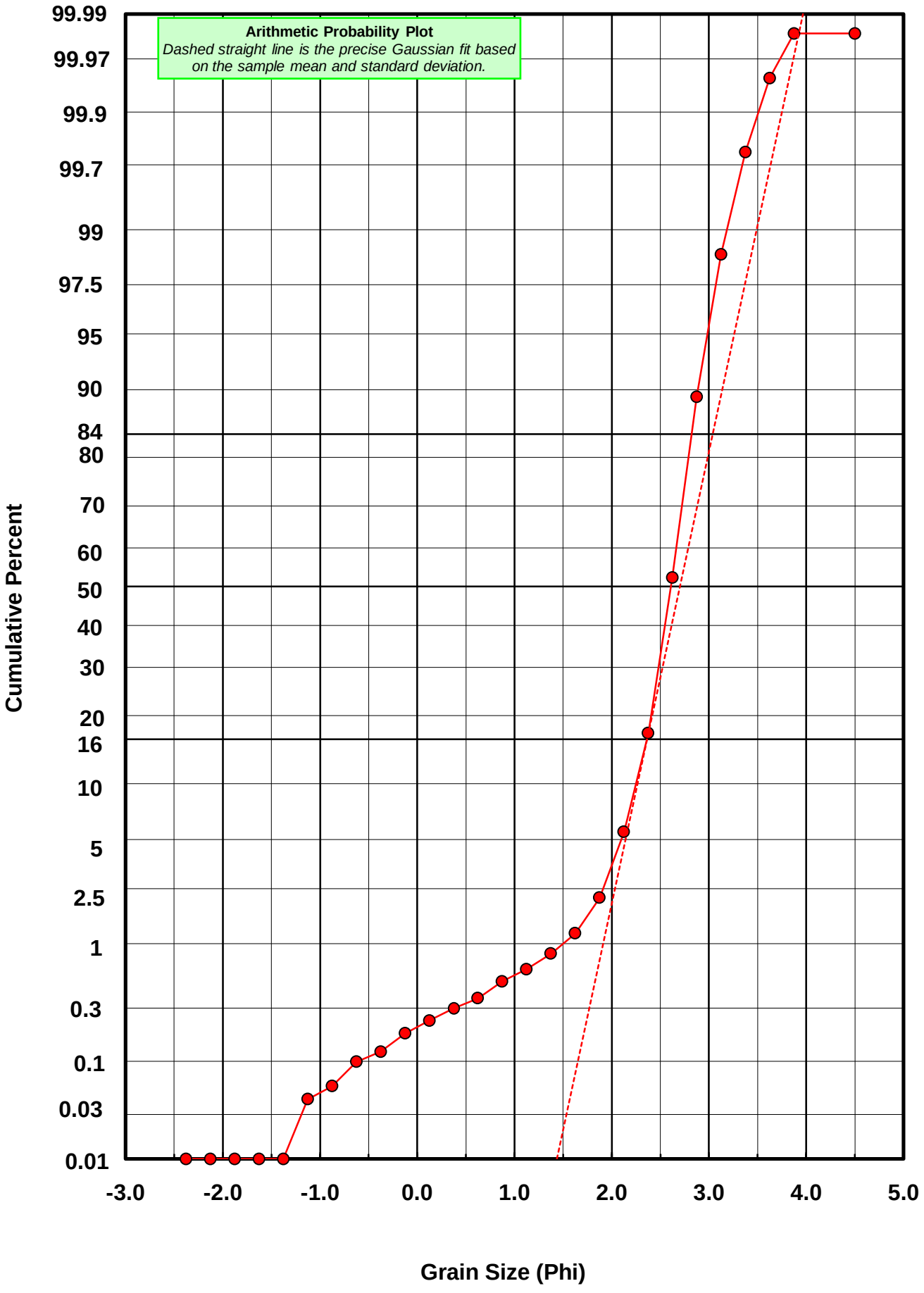
For Further Explanation, See Basillle et al. 2002

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)



CR-31


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: CR-31

Total Carbonate Mass: 6.821 grams

% Carbonate: 3.4 %

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	0.000	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	0.030	0.440	0.440
-0.75	-0.875	0.010	0.147	0.586
-0.50	-0.625	0.027	0.396	0.982
-0.25	-0.375	0.016	0.235	1.217
0.00	-0.125	0.038	0.557	1.774
0.25	0.125	0.037	0.542	2.316
0.50	0.375	0.035	0.513	2.829
0.75	0.625	0.038	0.557	3.387
1.00	0.875	0.089	1.305	4.691
1.25	1.125	0.080	1.173	5.864
1.50	1.375	0.101	1.481	7.345
1.75	1.625	0.120	1.759	9.104
2.00	1.875	0.200	2.932	12.036
2.25	2.125	0.453	6.641	18.678
2.50	2.375	2.076	30.435	49.113
2.75	2.625	3.471	50.887	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:	2.3241	phi	(0.1997 mm)
Standard Dev:	0.5794	phi-units	(0.6693 mm)
Skewness:	-3.3362	dimensionless	
Kurtosis:	15.5411	dimensionless	
5th Moment:	-76.2262	dimensionless	
6th Moment:	393.6047	dimensionless	
RARD *	0.2493	dimensionless	
Median	2.3794	phi	(0.1922 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	
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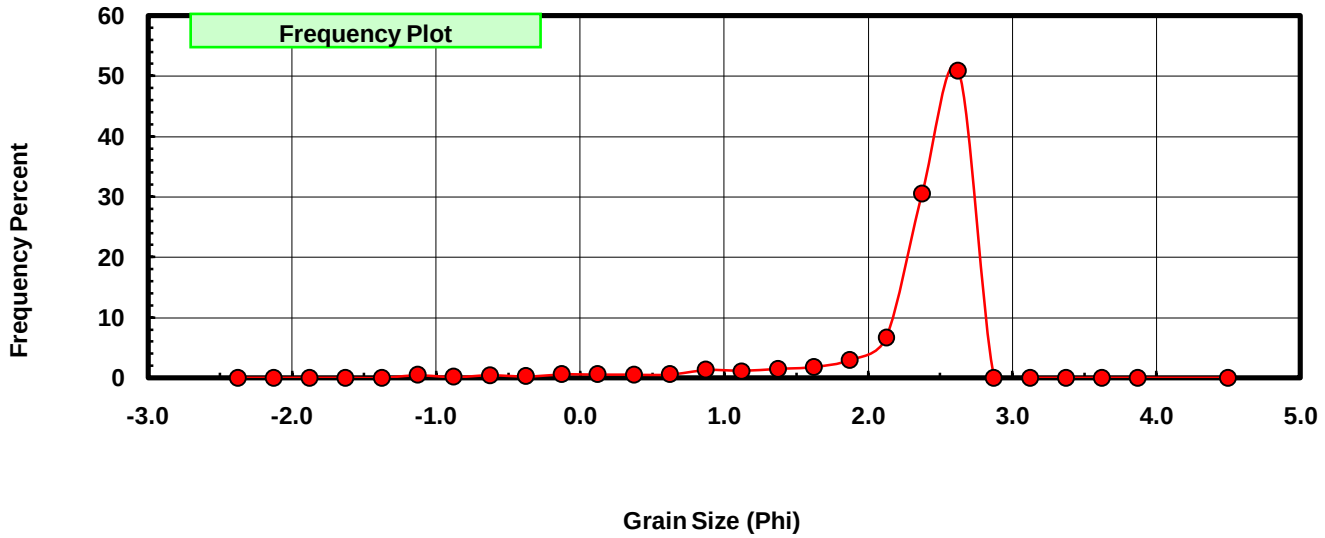

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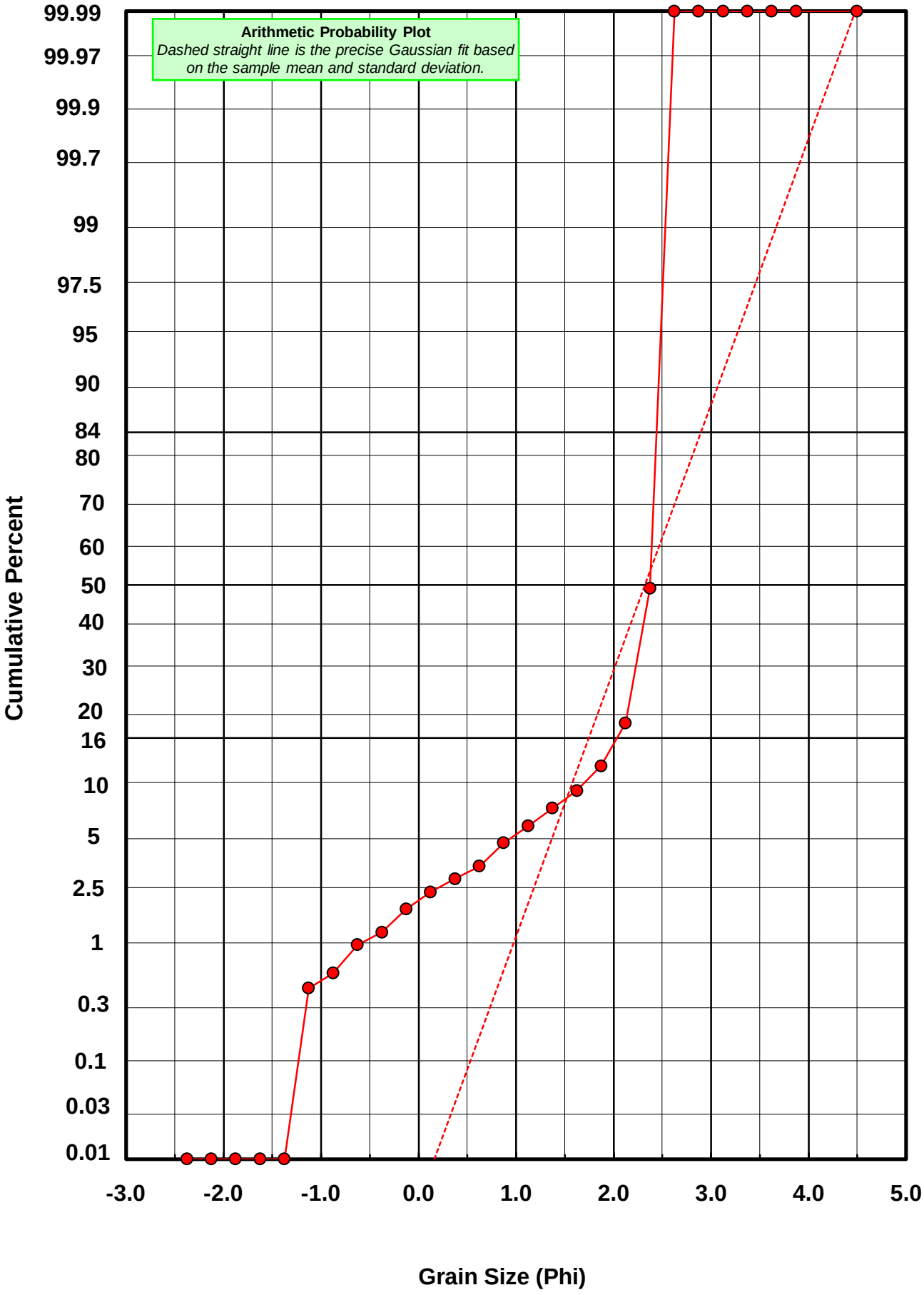
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
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99
97.5
95
90
84
80
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60
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30
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: CR-31

Total Digested Mass: 65.889 grams

% Silica: 96.6 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.009	0.014	0.014
0.75	0.625	0.008	0.012	0.026
1.00	0.875	0.008	0.012	0.038
1.25	1.125	0.010	0.015	0.053
1.50	1.375	0.042	0.064	0.117
1.75	1.625	0.124	0.188	0.305
2.00	1.875	0.443	0.672	0.977
2.25	2.125	1.821	2.764	3.741
2.50	2.375	5.845	8.871	12.612
2.75	2.625	20.573	31.224	43.836
3.00	2.875	26.942	40.890	84.726
3.25	3.125	8.853	13.436	98.162
3.50	3.375	0.964	1.463	99.625
3.75	3.625	0.132	0.200	99.825
4.00	3.875	0.091	0.138	99.964
5.00	4.500	0.024	0.036	100.000

Statistical Results			
Mean:	2.7651	phi	(0.1471 mm)
Standard Dev:	0.2745	phi-units	(0.8267 mm)
Skewness:	-0.5876	dimensionless	
Kurtosis:	6.6320	dimensionless	
5th Moment:	-15.8130	dimensionless	
6th Moment:	176.3535	dimensionless	
RARD *	0.0993	dimensionless	
Median	2.6627	phi	(0.1579 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

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

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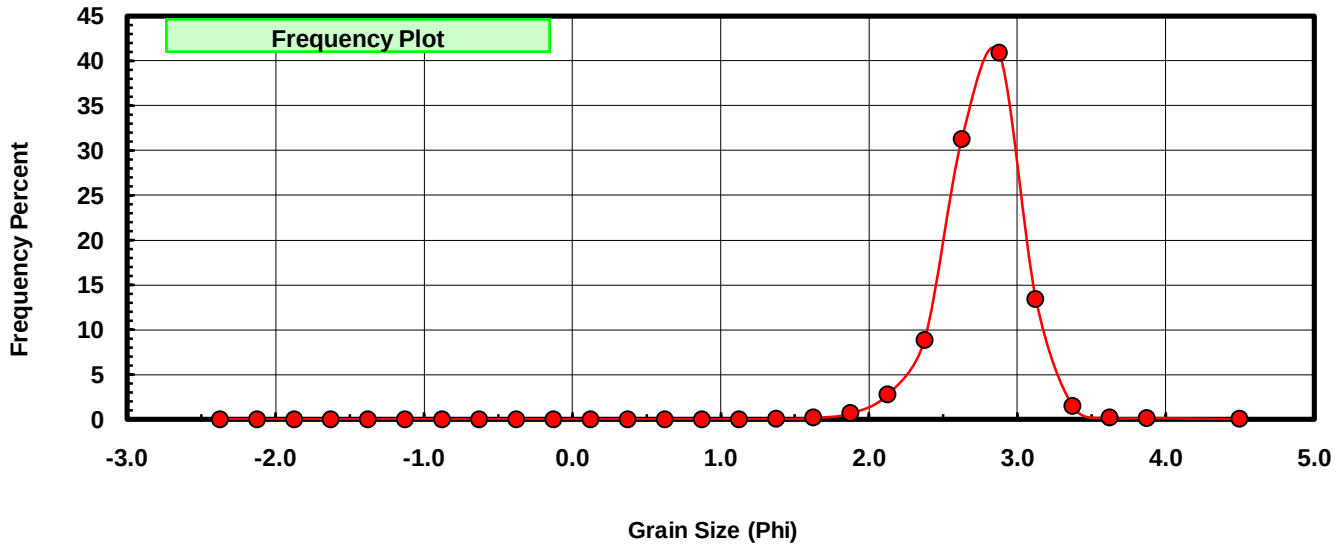

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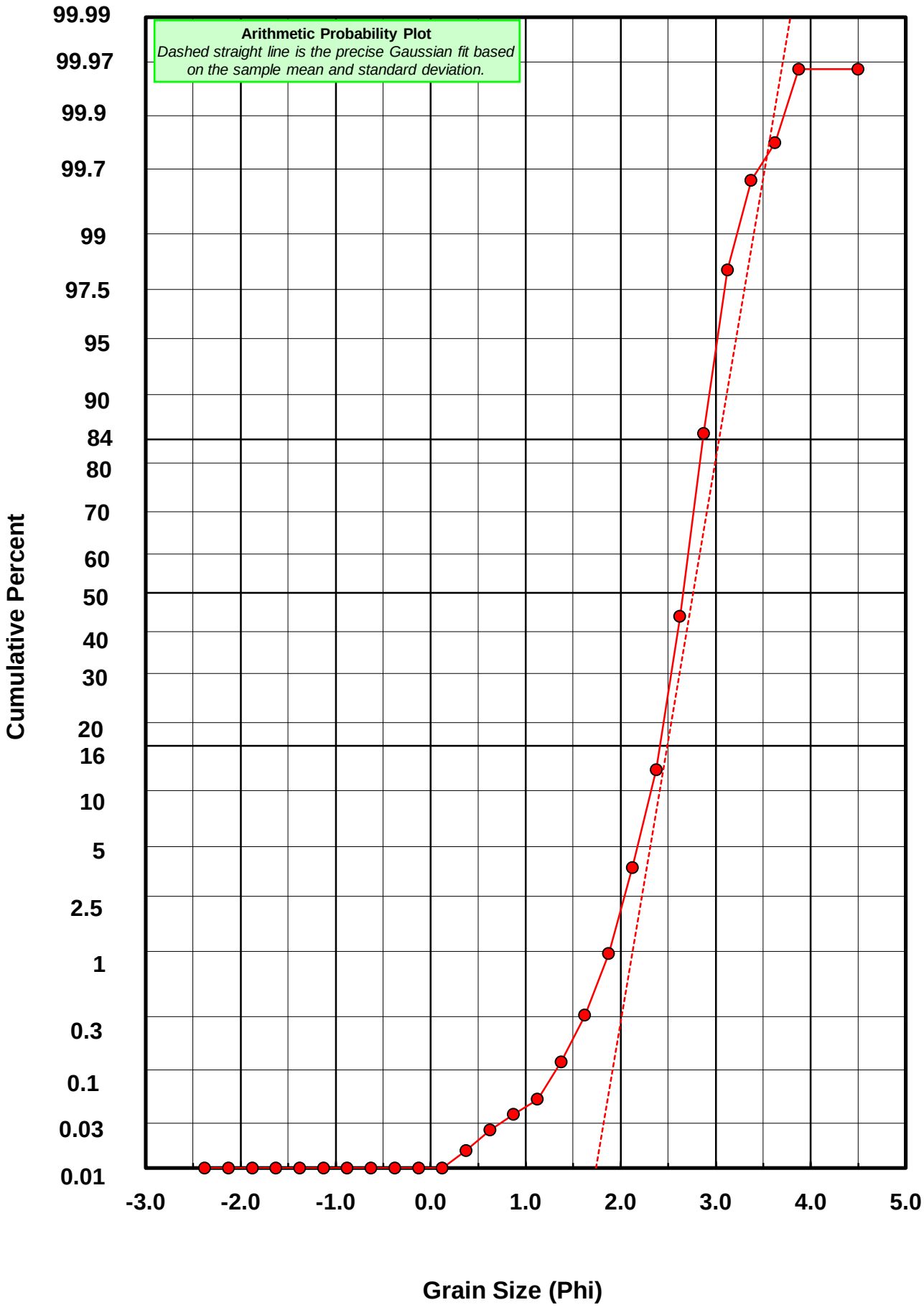
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Grain Size (Phi)