Onshore Grab Sample

Sample: PB-20-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/7/09
Splits? N/A

County: Palm Beach
Latitude: 26° 41' 49.2"
Longitude: 80° 01' 58.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	58.47	grams
Total Fines in Sample	0.572	grams
Total Percent Fines	0.97	%

Dry Sieving Summary

Total Sample Weight	57.967	grams
Total Digested Weight	30.276	grams
Total Carbonate Weight	27.691	grams
Total Silica %	52.23	%
Total Carbonate %	47.77	%
Carbonate/Silica Ratio	0.915	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-20-BB

Total Sample Mass: 57.967 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.060	0.104	0.104
-2.00	-2.125	0.000	0.000	0.104
-1.75	-1.875	0.000	0.000	0.104
-1.50	-1.625	0.041	0.071	0.174
-1.25	-1.375	0.000	0.000	0.174
-1.00	-1.125	0.000	0.000	0.174
-0.75	-0.875	0.022	0.038	0.212
-0.50	-0.625	0.067	0.116	0.328
-0.25	-0.375	0.059	0.102	0.430
0.00	-0.125	0.119	0.205	0.635
0.25	0.125	0.269	0.464	1.099
0.50	0.375	0.553	0.954	2.053
0.75	0.625	0.874	1.508	3.561
1.00	0.875	2.190	3.778	7.339
1.25	1.125	2.933	5.060	12.398
1.50	1.375	6.004	10.358	22.756
1.75	1.625	6.696	11.551	34.307
2.00	1.875	6.207	10.708	45.015
2.25	2.125	4.815	8.306	53.322
2.50	2.375	4.020	6.935	60.257
2.75	2.625	4.736	8.170	68.427
3.00	2.875	7.807	13.468	81.895
3.25	3.125	7.191	12.405	94.300
3.50	3.375	2.589	4.466	98.767
3.75	3.625	0.539	0.930	99.696
4.00	3.875	0.131	0.226	99.922
5.00	4.50	0.045	0.078	100.000

Statistical Results			
Mean:	2.1564	phi	(0.2243 mm)
Standard Dev:	0.8260	phi-units	(0.5641 mm)
Skewness:	-0.4666	dimensionless	
Kurtosis:	3.4517	dimensionless	
5th Moment:	-8.7957	dimensionless	
6th Moment:	44.9827	dimensionless	
RARD *	0.3831	dimensionless	
Median	2.0250	phi	(0.2457 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

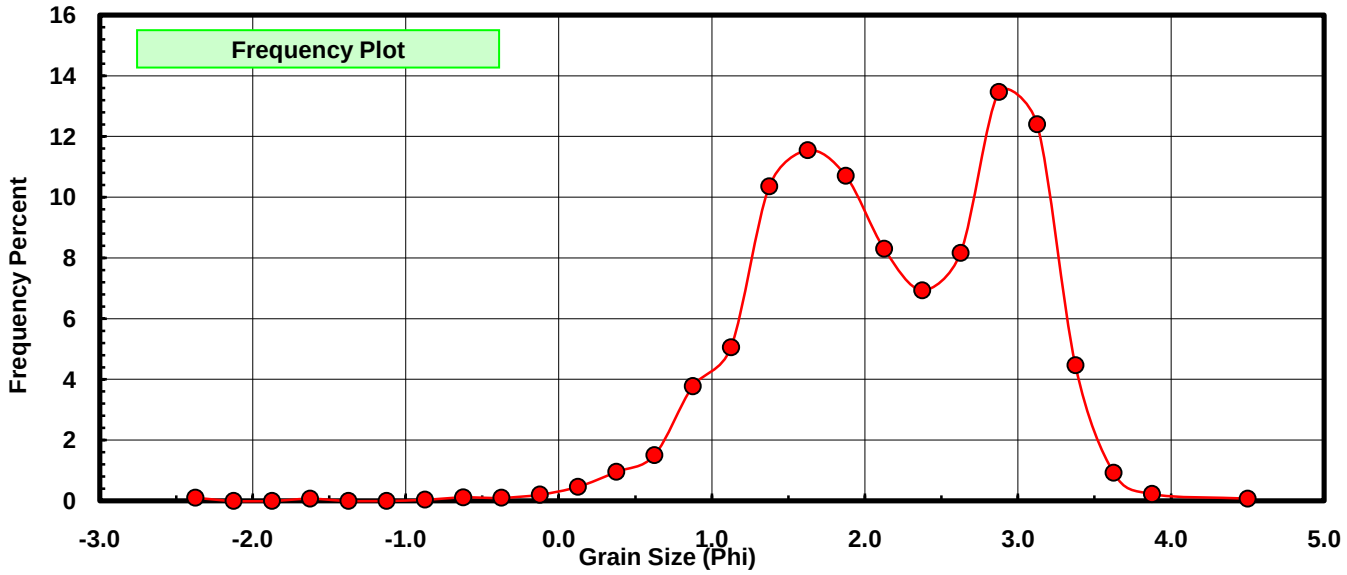
Statistical Explanation

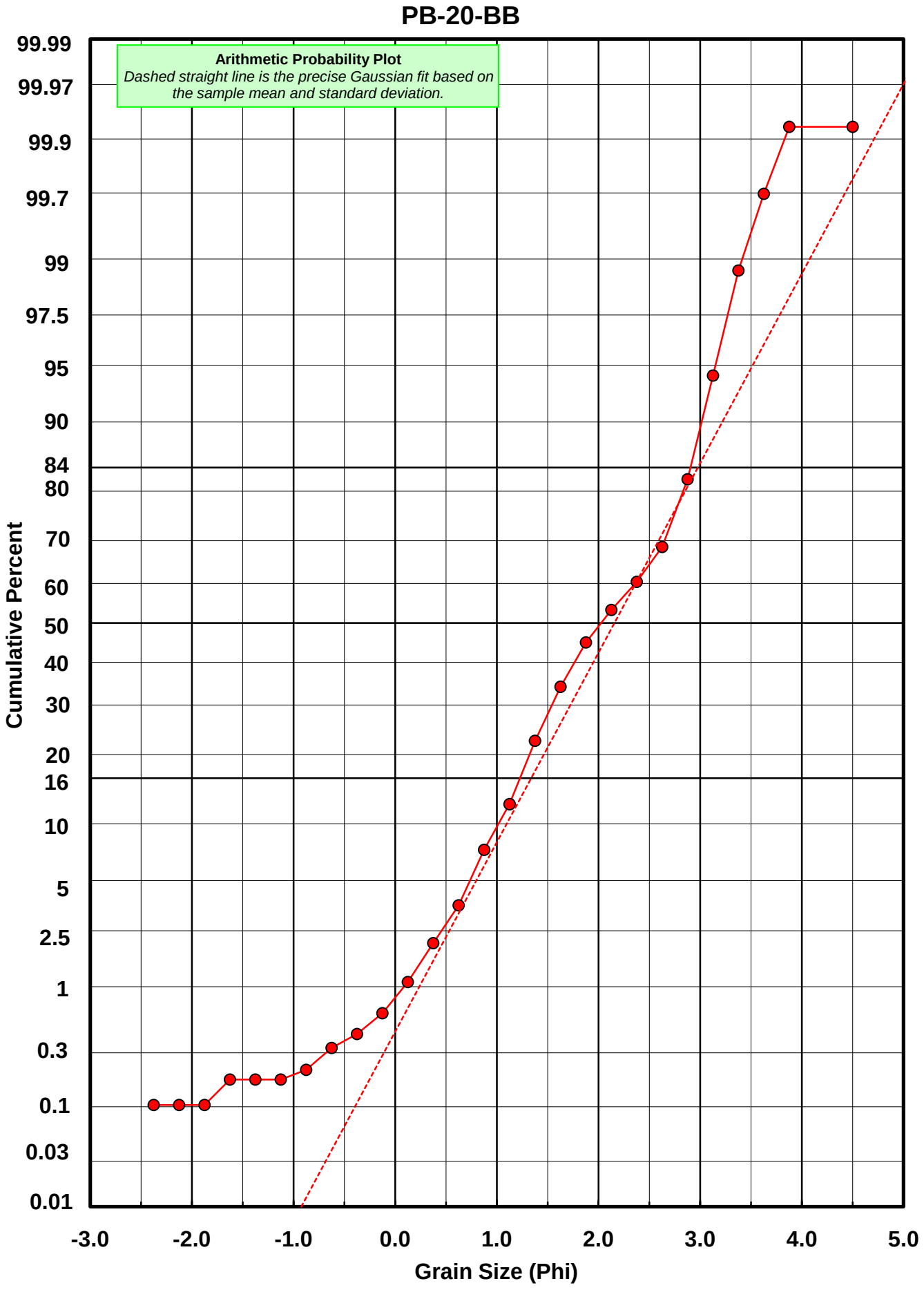
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




PB-20-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: PB-20-BB

Total Carbonate Mass: 27.691 grams

% Carbonate: 47.8 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.060	0.217	0.217
-2.00	-2.125	0.000	0.000	0.217
-1.75	-1.875	0.000	0.000	0.217
-1.50	-1.625	0.041	0.148	0.365
-1.25	-1.375	0.000	0.000	0.365
-1.00	-1.125	0.000	0.000	0.365
-0.75	-0.875	0.022	0.079	0.444
-0.50	-0.625	0.067	0.242	0.686
-0.25	-0.375	0.059	0.213	0.899
0.00	-0.125	0.113	0.408	1.307
0.25	0.125	0.250	0.903	2.210
0.50	0.375	0.506	1.827	4.037
0.75	0.625	0.730	2.636	6.674
1.00	0.875	1.635	5.904	12.578
1.25	1.125	1.765	6.374	18.952
1.50	1.375	3.098	11.188	30.140
1.75	1.625	3.184	11.498	41.638
2.00	1.875	2.896	10.458	52.096
2.25	2.125	2.469	8.916	61.013
2.50	2.375	2.465	8.902	69.914
2.75	2.625	2.568	9.274	79.188
3.00	2.875	3.368	12.163	91.351
3.25	3.125	2.184	7.887	99.238
3.50	3.375	0.076	0.274	99.512
3.75	3.625	0.089	0.321	99.834
4.00	3.875	0.034	0.123	99.957
5.00	4.500	0.012	0.043	100.000

Statistical Results			
Mean:	1.9416	phi	(0.2603 mm)
Standard Dev:	0.8460	phi-units	(0.5563 mm)
Skewness:	-0.6358	dimensionless	
Kurtosis:	4.1143	dimensionless	
5th Moment:	-11.8511	dimensionless	
6th Moment:	57.2574	dimensionless	
RARD *	0.4357	dimensionless	
Median	1.8249	phi	(0.2823 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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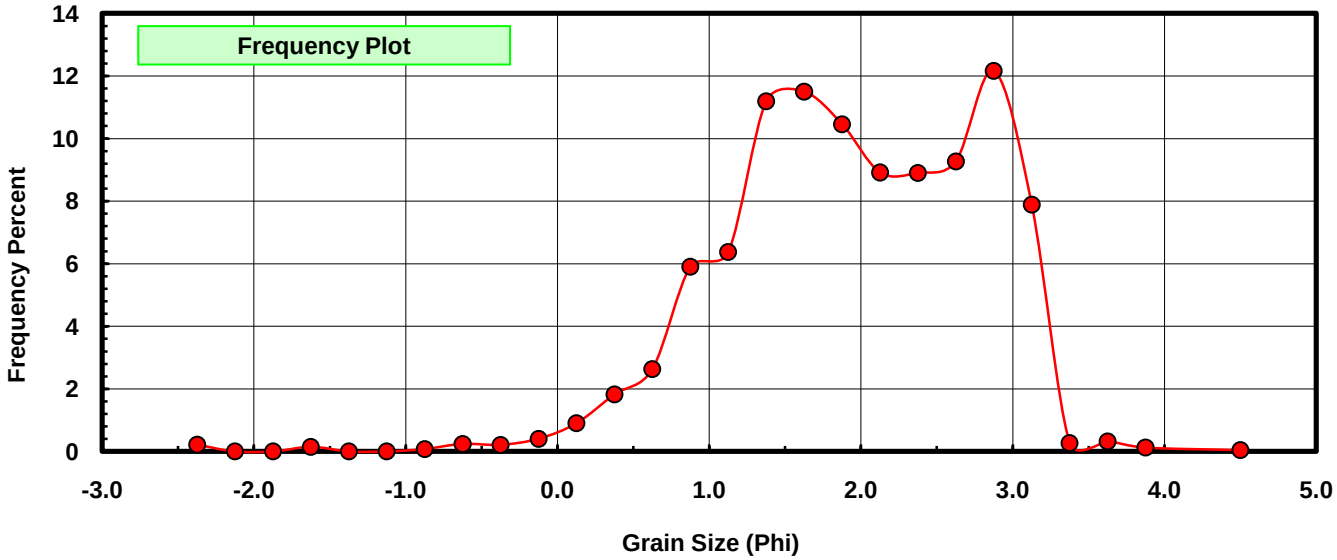

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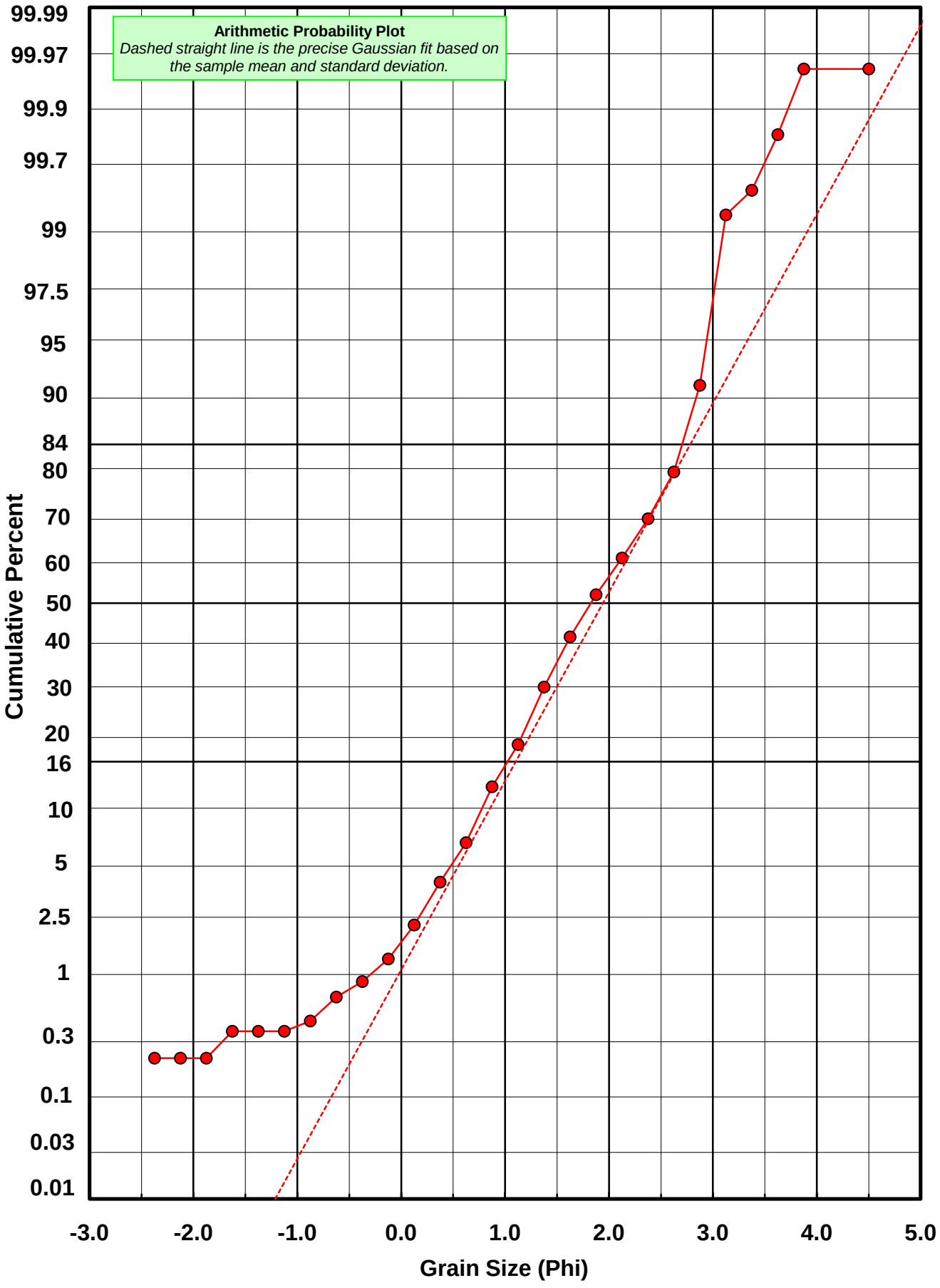
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
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16
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5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-20-BB

Total Digested Mass: 30.276 grams

% Silica: 52.2 %

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	0.006	0.020	0.020
0.25	0.125	0.019	0.063	0.083
0.50	0.375	0.047	0.155	0.238
0.75	0.625	0.144	0.476	0.713
1.00	0.875	0.555	1.833	2.547
1.25	1.125	1.168	3.858	6.404
1.50	1.375	2.906	9.598	16.003
1.75	1.625	3.512	11.600	27.603
2.00	1.875	3.311	10.936	38.539
2.25	2.125	2.346	7.749	46.287
2.50	2.375	1.555	5.136	51.424
2.75	2.625	2.168	7.161	58.584
3.00	2.875	4.439	14.662	73.246
3.25	3.125	5.007	16.538	89.784
3.50	3.375	2.513	8.300	98.084
3.75	3.625	0.450	1.486	99.571
4.00	3.875	0.097	0.320	99.891
5.00	4.500	0.033	0.109	100.000

Statistical Results			
Mean:	2.3529	phi	(0.1958 mm)
Standard Dev:	0.7692	phi-units	(0.5867 mm)
Skewness:	-0.1923	dimensionless	
Kurtosis:	1.8621	dimensionless	
5th Moment:	-0.9720	dimensionless	
6th Moment:	5.5418	dimensionless	
RARD *	0.3269	dimensionless	
Median	2.3057	phi	(0.2023 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)

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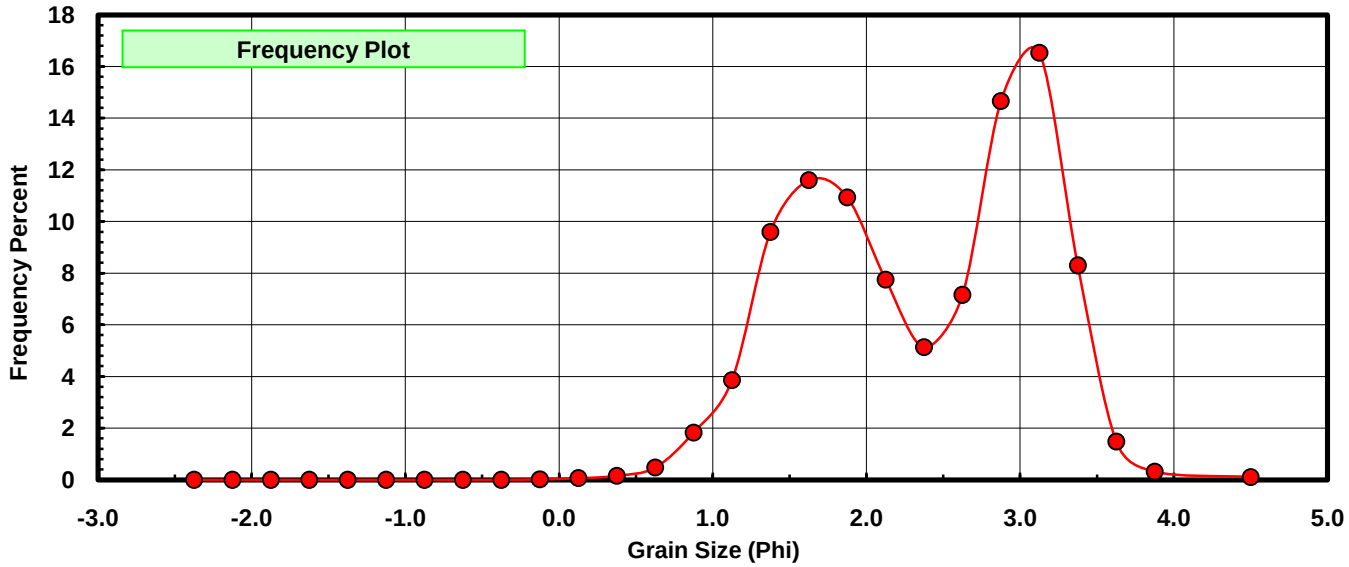

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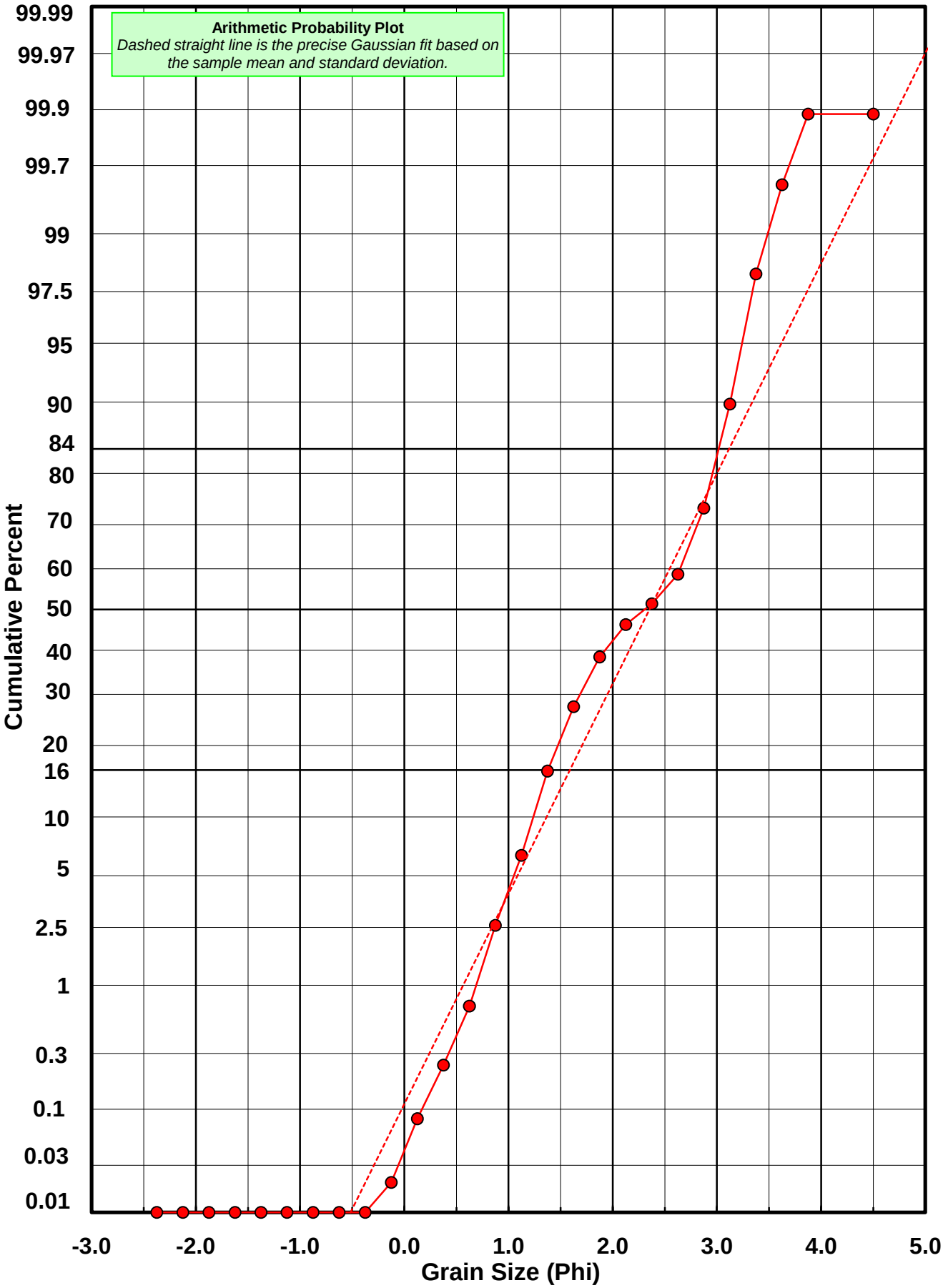
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Grain Size (Phi)