Onshore Grab Sample

Sample: LE-20-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/7/09
Splits? N/A

County: Lee
Latitude: 26° 33' 2.5"
Longitude: 82° 12' 3.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.376	grams
Total Fines in Sample	0.224	grams
Total Percent Fines	0.43	%

Dry Sieving Summary

Total Sample Weight	52.193	grams
Total Digested Weight	20.671	grams
Total Carbonate Weight	31.522	grams
Total Silica %	39.60	%
Total Carbonate %	60.40	%
Carbonate/Silica Ratio	1.525	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-20-BB

Total Sample Mass: 52.193 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.711	9.026	9.026
-2.00	-2.125	0.335	0.642	9.668
-1.75	-1.875	0.526	1.008	10.676
-1.50	-1.625	0.810	1.552	12.228
-1.25	-1.375	0.732	1.402	13.630
-1.00	-1.125	0.644	1.234	14.864
-0.75	-0.875	0.858	1.644	16.508
-0.50	-0.625	1.193	2.286	18.794
-0.25	-0.375	1.438	2.755	21.549
0.00	-0.125	1.779	3.409	24.957
0.25	0.125	2.070	3.966	28.923
0.50	0.375	2.488	4.767	33.690
0.75	0.625	2.405	4.608	38.298
1.00	0.875	5.999	11.494	49.792
1.25	1.125	5.547	10.628	60.420
1.50	1.375	7.783	14.912	75.332
1.75	1.625	6.005	11.505	86.837
2.00	1.875	4.203	8.053	94.890
2.25	2.125	1.449	2.776	97.666
2.50	2.375	0.488	0.935	98.601
2.75	2.625	0.238	0.456	99.057
3.00	2.875	0.154	0.295	99.352
3.25	3.125	0.117	0.224	99.577
3.50	3.375	0.079	0.151	99.728
3.75	3.625	0.054	0.103	99.831
4.00	3.875	0.037	0.071	99.902
5.00	4.50	0.051	0.098	100.000

Statistical Results			
Mean:	0.5909	phi	(0.6639 mm)
Standard Dev:	1.3423	phi-units	(0.3944 mm)
Skewness:	-0.9738	dimensionless	
Kurtosis:	3.1288	dimensionless	
5th Moment:	-4.9319	dimensionless	
6th Moment:	13.5841	dimensionless	
RARD *	2.2717	dimensionless	
Median	0.8799	phi	(0.5434 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

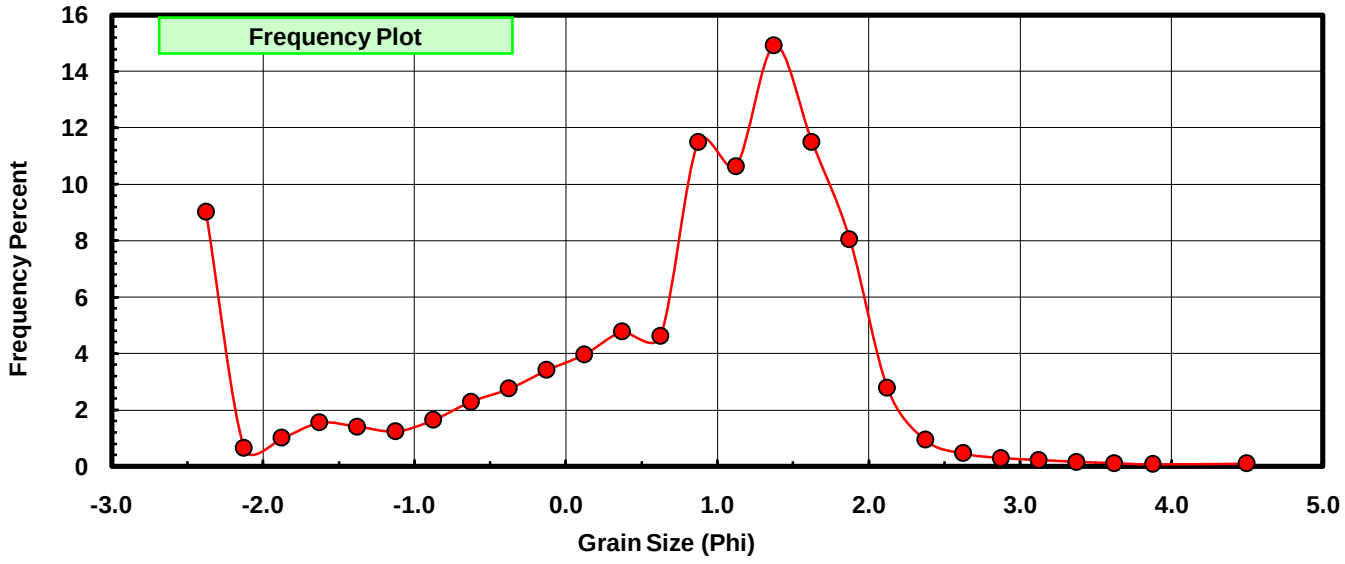
Statistical Explanation

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)



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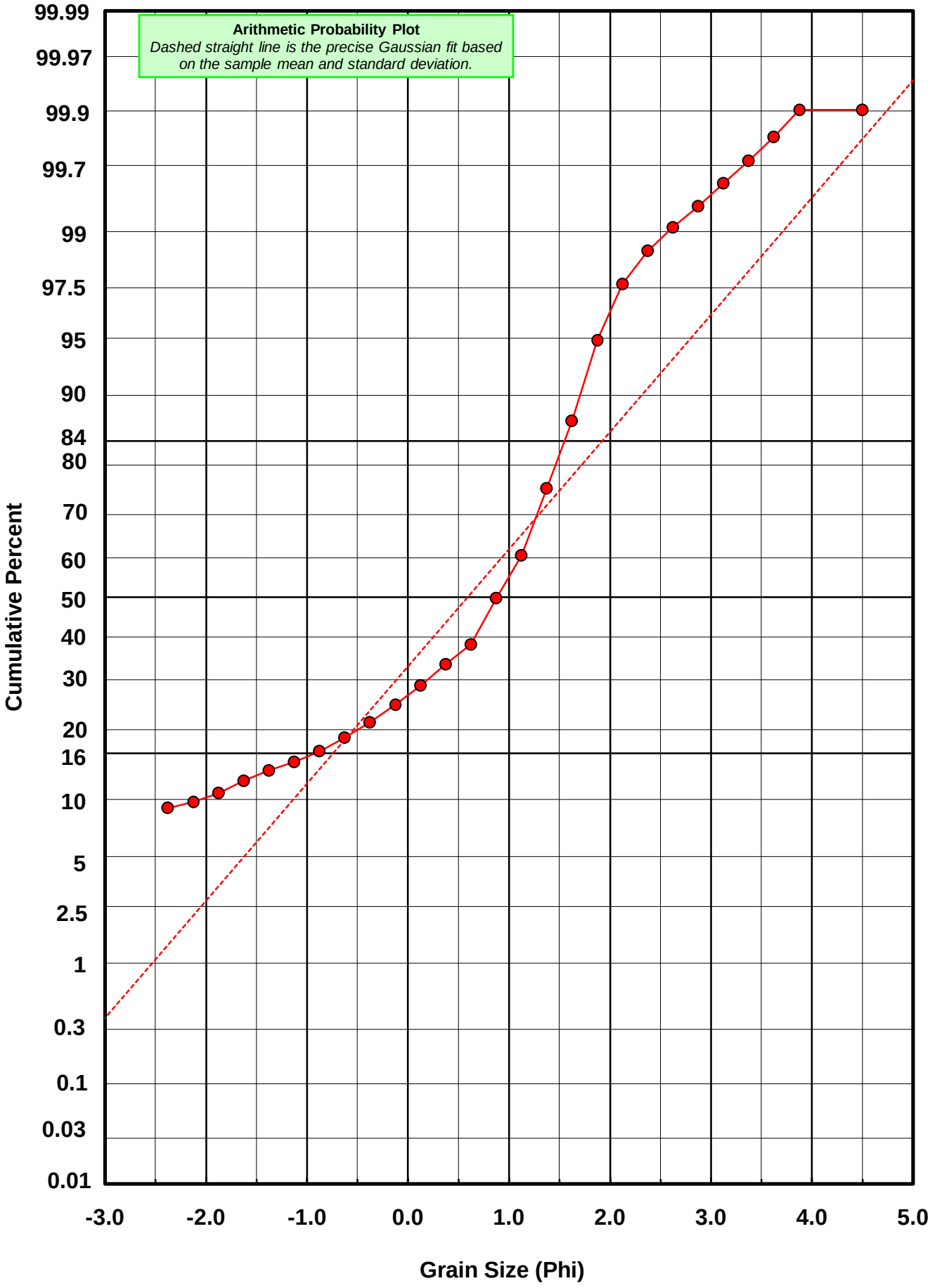
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-20-BB

Total Carbonate Mass: 31.522 grams

% Carbonate: 60.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.711	14.945	14.945
-2.00	-2.125	0.335	1.063	16.008
-1.75	-1.875	0.526	1.669	17.677
-1.50	-1.625	0.810	2.570	20.246
-1.25	-1.375	0.732	2.322	22.568
-1.00	-1.125	0.621	1.970	24.538
-0.75	-0.875	0.841	2.668	27.206
-0.50	-0.625	1.178	3.737	30.943
-0.25	-0.375	1.411	4.476	35.420
0.00	-0.125	1.761	5.587	41.006
0.25	0.125	2.045	6.488	47.494
0.50	0.375	2.442	7.747	55.241
0.75	0.625	2.288	7.258	62.499
1.00	0.875	4.913	15.586	78.085
1.25	1.125	2.625	8.328	86.413
1.50	1.375	2.315	7.344	93.757
1.75	1.625	0.769	2.440	96.196
2.00	1.875	0.664	2.106	98.303
2.25	2.125	0.224	0.711	99.013
2.50	2.375	0.110	0.349	99.362
2.75	2.625	0.056	0.178	99.540
3.00	2.875	0.027	0.086	99.626
3.25	3.125	0.016	0.051	99.676
3.50	3.375	0.012	0.038	99.714
3.75	3.625	0.021	0.067	99.781
4.00	3.875	0.023	0.073	99.854
5.00	4.500	0.046	0.146	100.000

Statistical Results			
Mean:	-0.0372	phi	(1.0261 mm)
Standard Dev:	1.3631	phi-units	(0.3887 mm)
Skewness:	-0.4718	dimensionless	
Kurtosis:	2.2770	dimensionless	
5th Moment:	-1.0479	dimensionless	
6th Moment:	7.9804	dimensionless	
RARD *	36.6073	dimensionless	
Median	0.2059	phi	(0.867 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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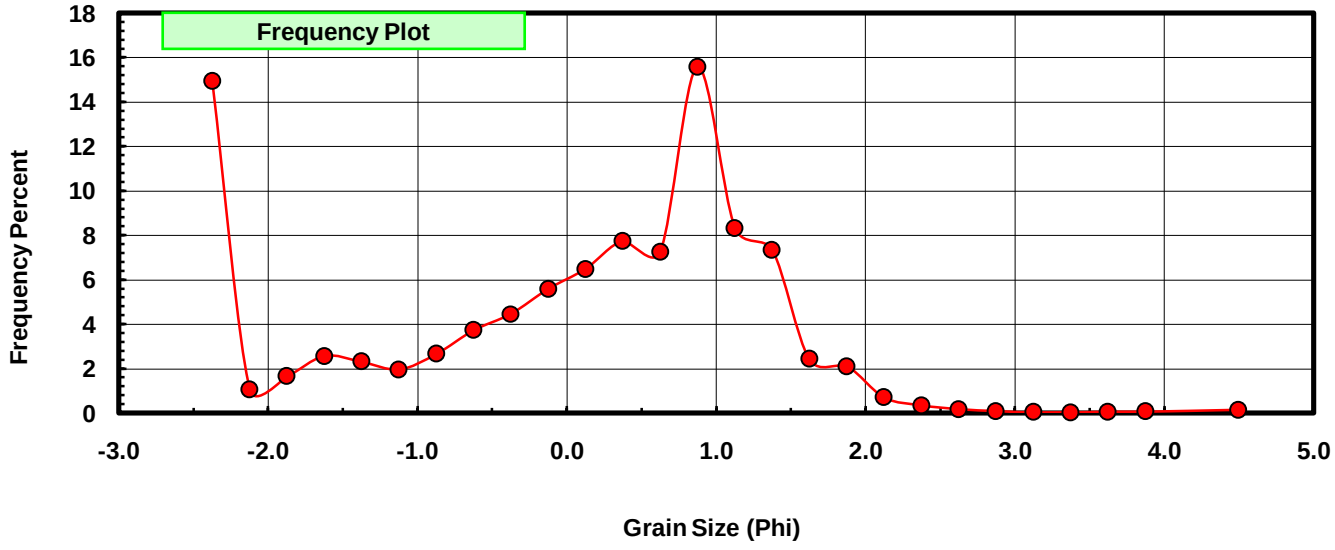

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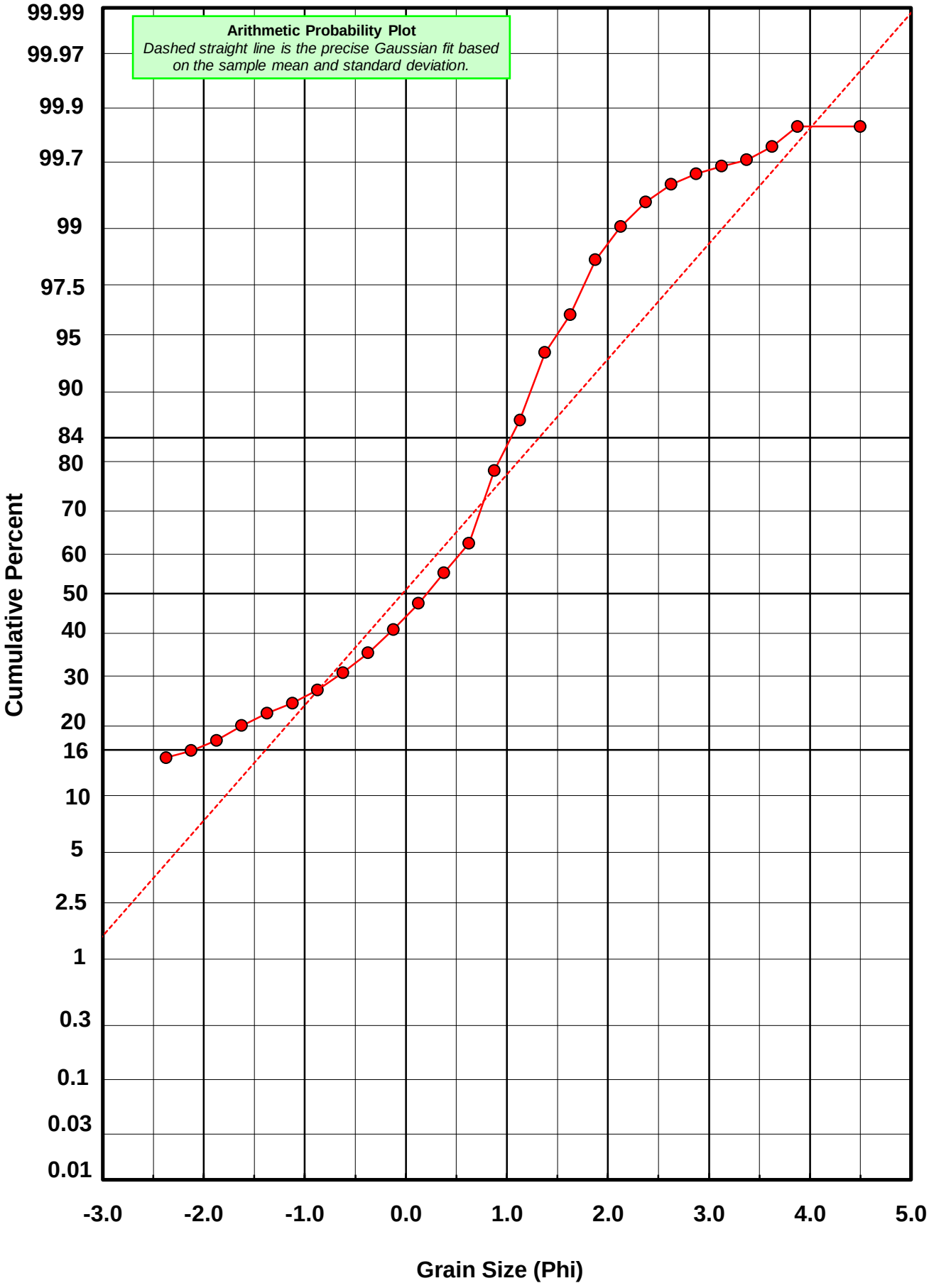
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
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16
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1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0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

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-20-BB

Total Digested Mass: 20.671 grams

% Silica: 39.6 %

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	0.023	0.111	0.111
-0.75	-0.875	0.017	0.082	0.194
-0.50	-0.625	0.015	0.073	0.266
-0.25	-0.375	0.027	0.131	0.397
0.00	-0.125	0.018	0.087	0.484
0.25	0.125	0.025	0.121	0.605
0.50	0.375	0.046	0.223	0.827
0.75	0.625	0.117	0.566	1.393
1.00	0.875	1.086	5.254	6.647
1.25	1.125	2.922	14.136	20.783
1.50	1.375	5.468	26.453	47.235
1.75	1.625	5.236	25.330	72.565
2.00	1.875	3.539	17.121	89.686
2.25	2.125	1.225	5.926	95.612
2.50	2.375	0.378	1.829	97.441
2.75	2.625	0.182	0.880	98.321
3.00	2.875	0.127	0.614	98.936
3.25	3.125	0.101	0.489	99.424
3.50	3.375	0.067	0.324	99.748
3.75	3.625	0.033	0.160	99.908
4.00	3.875	0.014	0.068	99.976
5.00	4.500	0.005	0.024	100.000

Statistical Results			
Mean:	1.5487	phi	(0.3418 mm)
Standard Dev:	0.4579	phi-units	(0.7281 mm)
Skewness:	0.2998	dimensionless	
Kurtosis:	8.0563	dimensionless	
5th Moment:	-0.1189	dimensionless	
6th Moment:	160.2921	dimensionless	
RARD *	0.2957	dimensionless	
Median	1.4023	phi	(0.3783 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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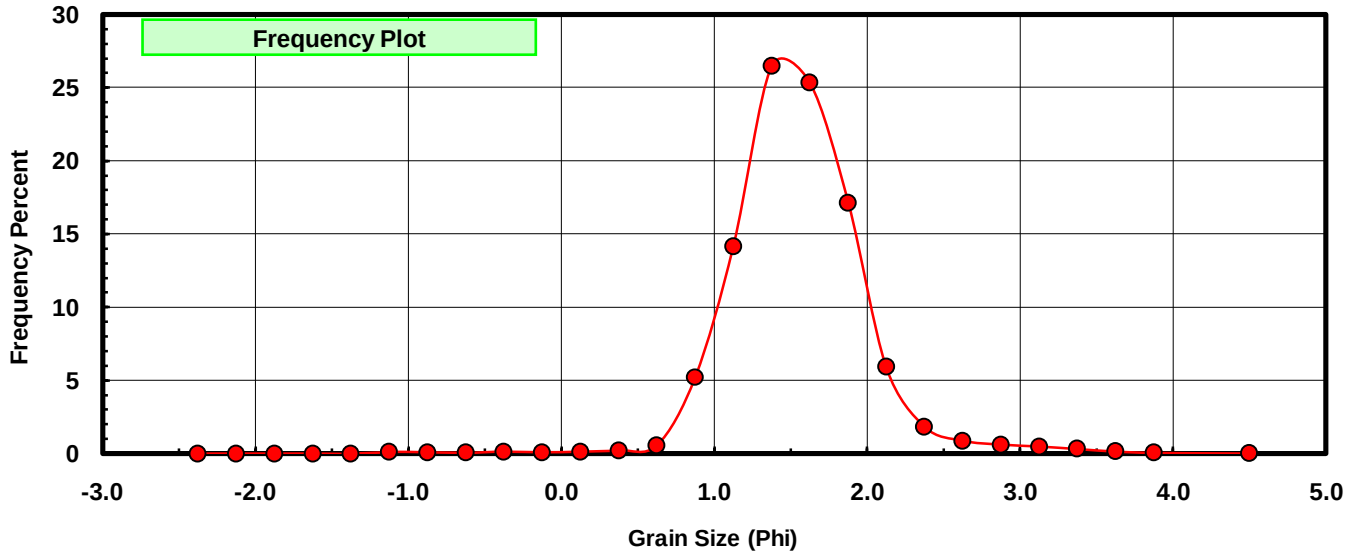

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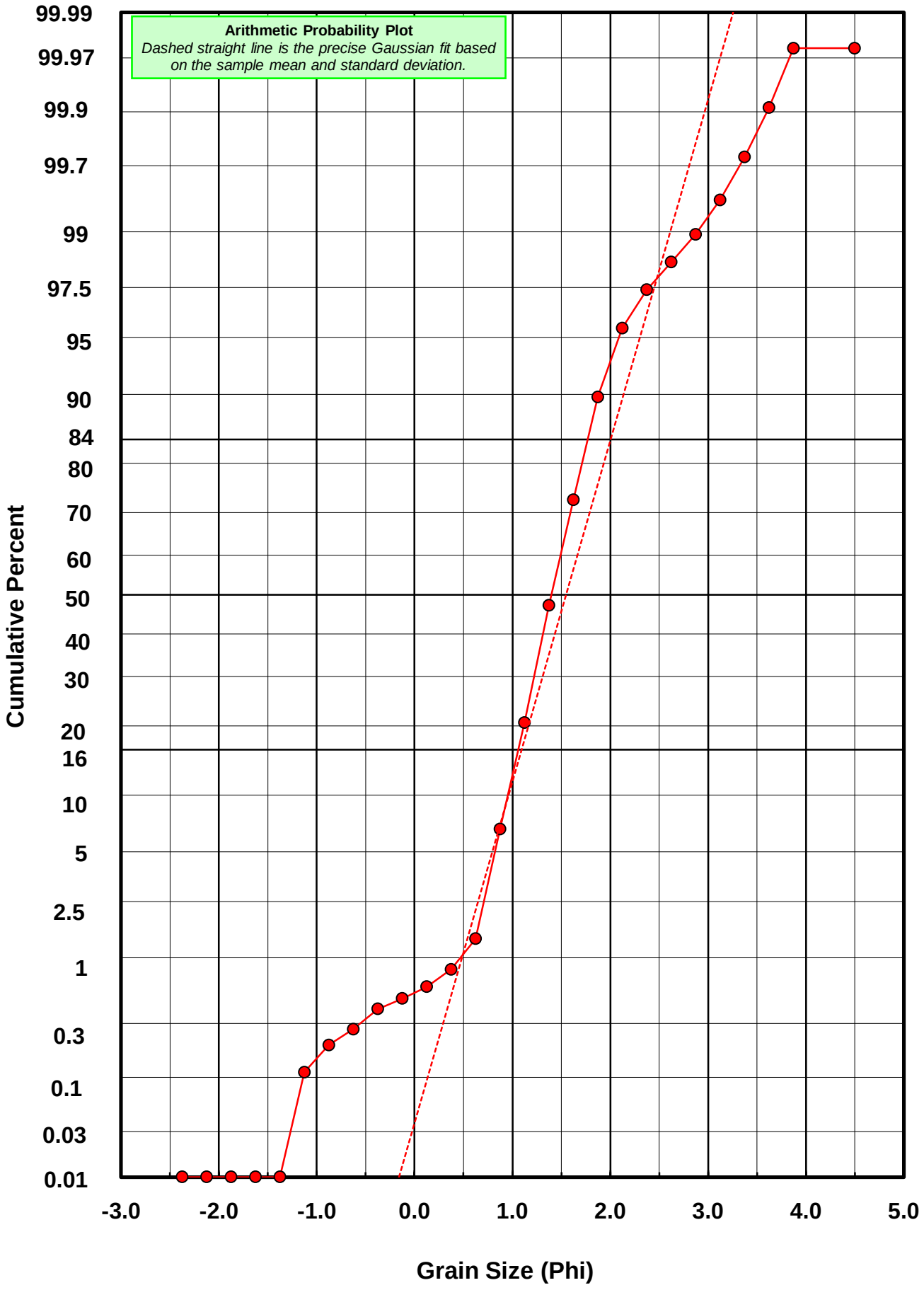
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Grain Size (Phi)