Onshore Grab Sample

Sample: LE-40
Sample Taken By: D. Phelps
Sample Collected On: 1/14/10
Splits? N/A

County: Lee
Latitude: 26° 27' 51.2"
Longitude: 81° 58' 05"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	61.279	grams
Total Fines in Sample	0.421	grams
Total Percent Fines	0.68	%

Dry Sieving Summary

Total Sample Weight	60.767	grams
Total Digested Weight	57.380	grams
Total Carbonate Weight	3.387	grams
Total Silica %	94.43	%
Total Carbonate %	5.57	%
Carbonate/Silica Ratio	0.059	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-40

Total Sample Mass: 60.767 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	0.067	0.110	0.110
-1.75	-1.875	0.092	0.151	0.262
-1.50	-1.625	0.065	0.107	0.369
-1.25	-1.375	0.033	0.054	0.423
-1.00	-1.125	0.066	0.109	0.532
-0.75	-0.875	0.062	0.102	0.634
-0.50	-0.625	0.065	0.107	0.741
-0.25	-0.375	0.094	0.155	0.895
0.00	-0.125	0.087	0.143	1.038
0.25	0.125	0.074	0.122	1.160
0.50	0.375	0.084	0.138	1.298
0.75	0.625	0.104	0.171	1.470
1.00	0.875	0.305	0.502	1.971
1.25	1.125	0.564	0.928	2.900
1.50	1.375	1.672	2.751	5.651
1.75	1.625	2.332	3.838	9.489
2.00	1.875	2.719	4.474	13.963
2.25	2.125	2.867	4.718	18.681
2.50	2.375	4.370	7.191	25.873
2.75	2.625	12.329	20.289	46.162
3.00	2.875	21.299	35.050	81.212
3.25	3.125	9.644	15.870	97.082
3.50	3.375	1.518	2.498	99.580
3.75	3.625	0.214	0.352	99.933
4.00	3.875	0.026	0.043	99.975
5.00	4.50	0.015	0.025	100.000

Statistical Results			
Mean:	2.5966	phi	(0.1653 mm)
Standard Dev:	0.6439	phi-units	(0.64 mm)
Skewness:	-2.7815	dimensionless	
Kurtosis:	15.5776	dimensionless	
5th Moment:	-91.5644	dimensionless	
6th Moment:	584.1284	dimensionless	
RARD *	0.2480	dimensionless	
Median	2.6524	phi	(0.1591 mm)

* RARD = reciprocal absolute relative dispersion (see below)

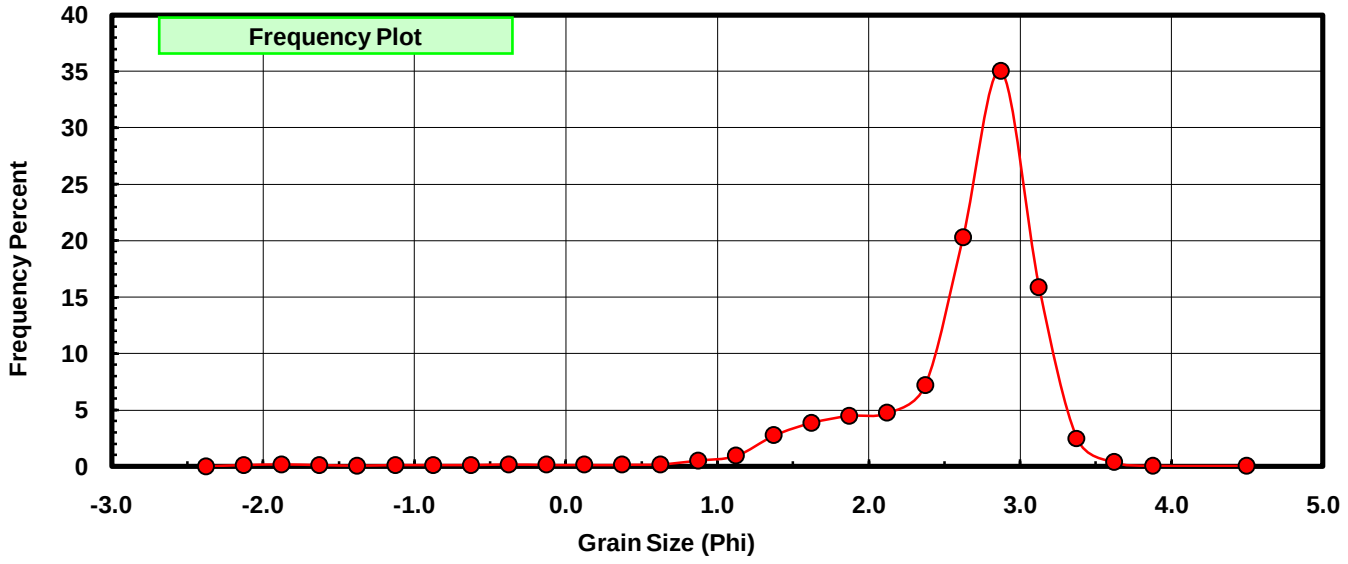
Statistical Explanation

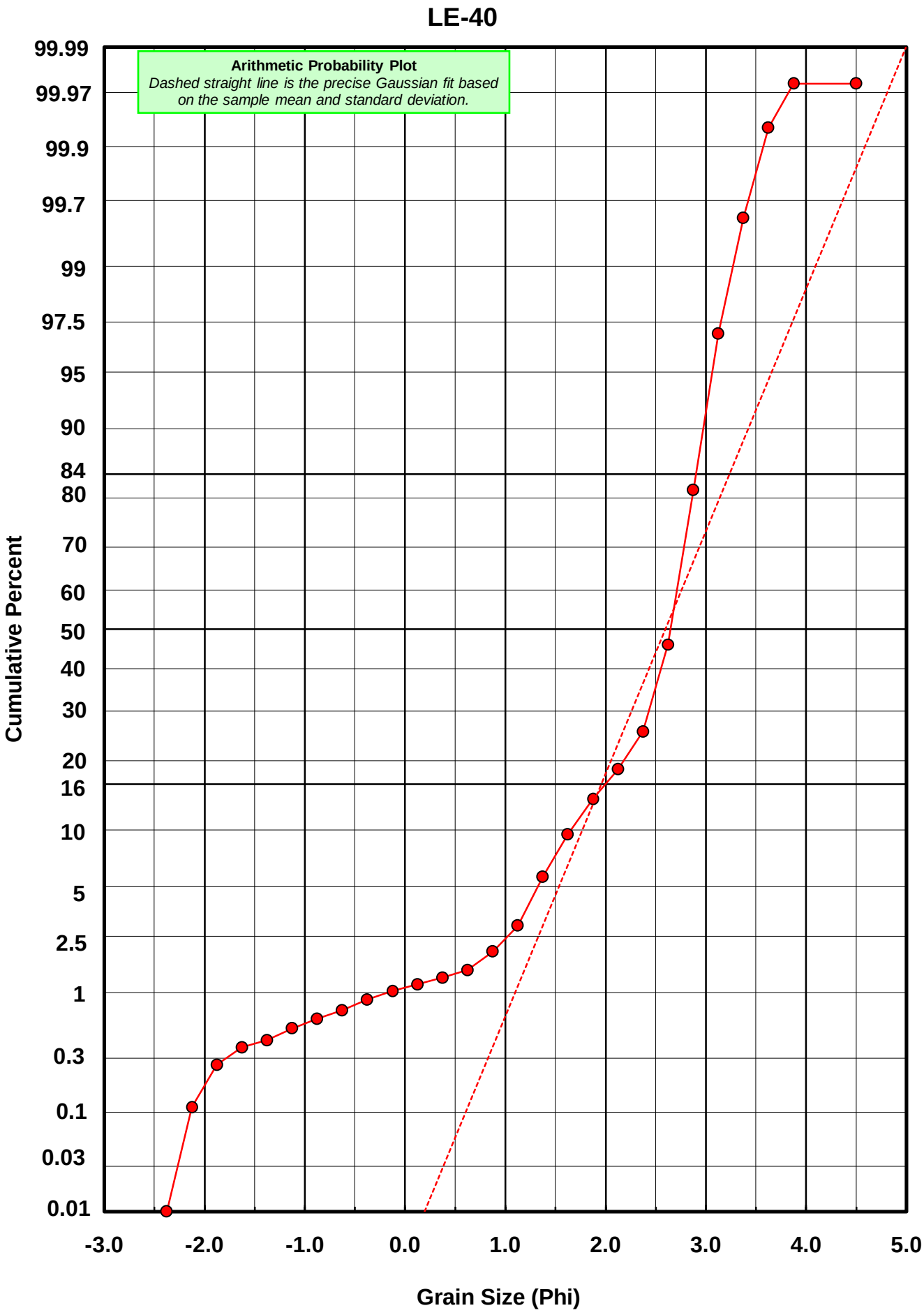
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




LE-40
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-40

Total Carbonate Mass: 5.565 grams

% Carbonate: 5.6 %

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	0.067	1.204	1.204
-1.75	-1.875	0.092	1.653	2.857
-1.50	-1.625	0.065	1.168	4.025
-1.25	-1.375	0.033	0.593	4.618
-1.00	-1.125	0.066	1.186	5.804
-0.75	-0.875	0.062	1.114	6.918
-0.50	-0.625	0.065	1.168	8.086
-0.25	-0.375	0.094	1.689	9.775
0.00	-0.125	0.063	1.132	10.907
0.25	0.125	0.064	1.150	12.058
0.50	0.375	0.067	1.204	13.261
0.75	0.625	0.072	1.294	14.555
1.00	0.875	0.150	2.695	17.251
1.25	1.125	0.161	2.893	20.144
1.50	1.375	0.395	7.098	27.242
1.75	1.625	0.214	3.845	31.087
2.00	1.875	0.053	0.952	32.040
2.25	2.125	0.251	4.510	36.550
2.50	2.375	0.000	0.000	36.550
2.75	2.625	0.000	0.000	36.550
3.00	2.875	0.142	2.552	39.102
3.25	3.125	2.916	52.399	91.500
3.50	3.375	0.461	8.284	99.784
3.75	3.625	0.000	0.000	99.784
4.00	3.875	0.007	0.126	99.910
5.00	4.500	0.005	0.090	100.000

Statistical Results			
Mean:	2.2214	phi	(0.2144 mm)
Standard Dev:	1.4478	phi-units	(0.3666 mm)
Skewness:	-1.4514	dimensionless	
Kurtosis:	4.1061	dimensionless	
5th Moment:	-10.1821	dimensionless	
6th Moment:	27.3859	dimensionless	
RARD *	0.6518	dimensionless	
Median	2.9270	phi	(0.1315 mm)

* RARD = reciprocal absolute relative dispersion (see below)

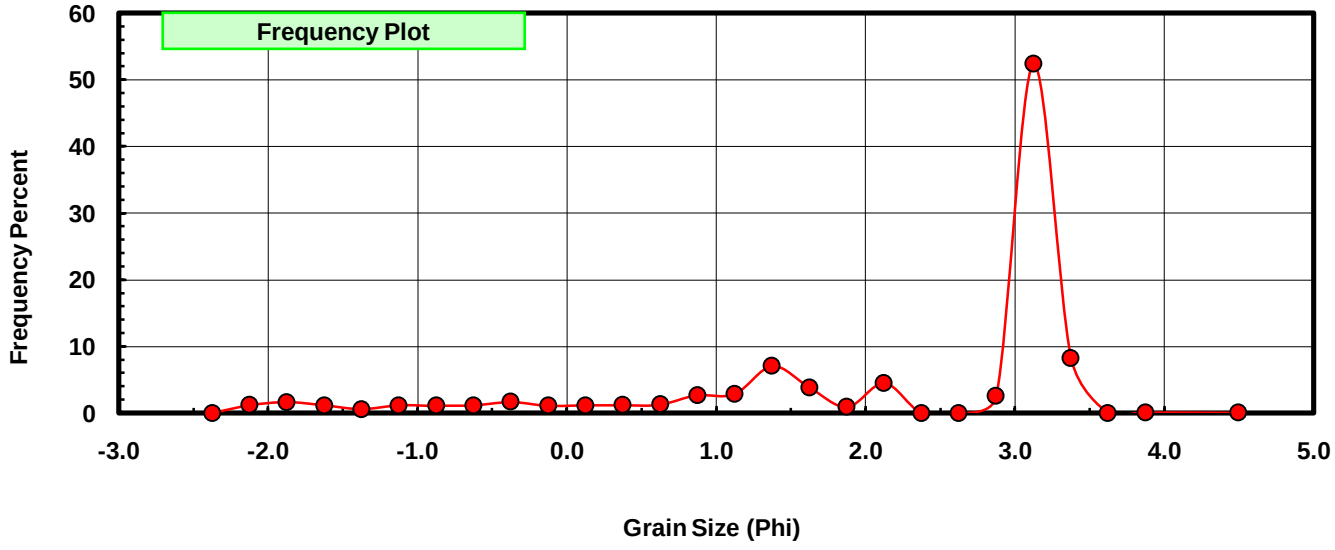
Statistical Explanation

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

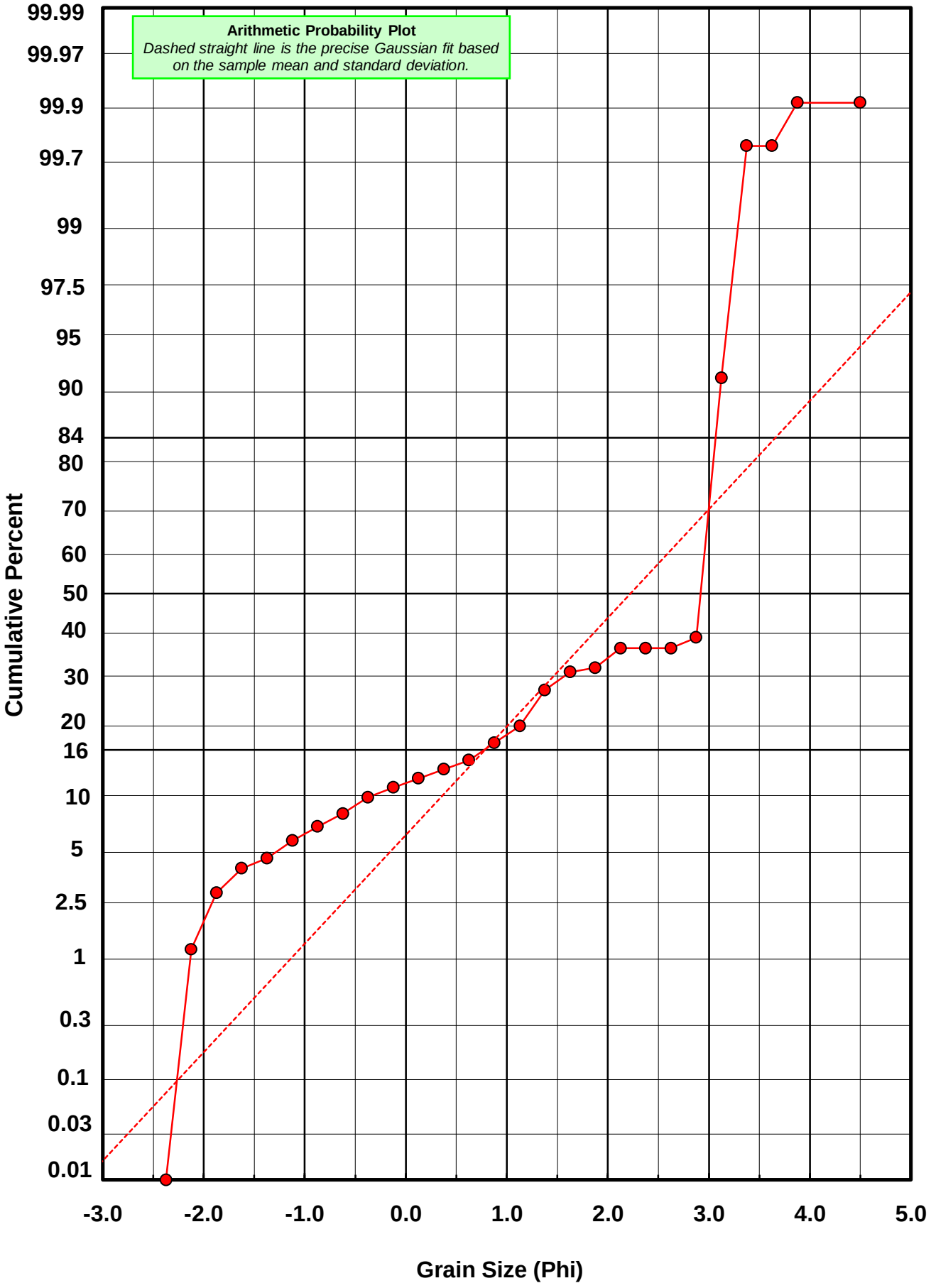
For Further Explanation, See Basillle et al. 2002

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)



LE-40


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: LE-40

Total Digested Mass: 57.380 grams

% Silica: 94.4 %

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	0.000	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	0.024	0.042	0.042
0.25	0.125	0.010	0.017	0.059
0.50	0.375	0.017	0.030	0.089
0.75	0.625	0.032	0.056	0.145
1.00	0.875	0.155	0.270	0.415
1.25	1.125	0.403	0.702	1.117
1.50	1.375	1.277	2.226	3.343
1.75	1.625	2.118	3.691	7.034
2.00	1.875	2.666	4.646	11.680
2.25	2.125	2.616	4.559	16.239
2.50	2.375	4.893	8.527	24.766
2.75	2.625	13.978	24.360	49.127
3.00	2.875	21.157	36.872	85.999
3.25	3.125	6.728	11.725	97.724
3.50	3.375	1.057	1.842	99.566
3.75	3.625	0.220	0.383	99.949
4.00	3.875	0.019	0.033	99.983
5.00	4.500	0.010	0.017	100.000

Statistical Results			
Mean:	2.6319	phi	(0.1613 mm)
Standard Dev:	0.4670	phi-units	(0.7235 mm)
Skewness:	-1.3500	dimensionless	
Kurtosis:	5.1871	dimensionless	
5th Moment:	-14.8421	dimensionless	
6th Moment:	60.5790	dimensionless	
RARD *	0.1774	dimensionless	
Median	2.6309	phi	(0.1614 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

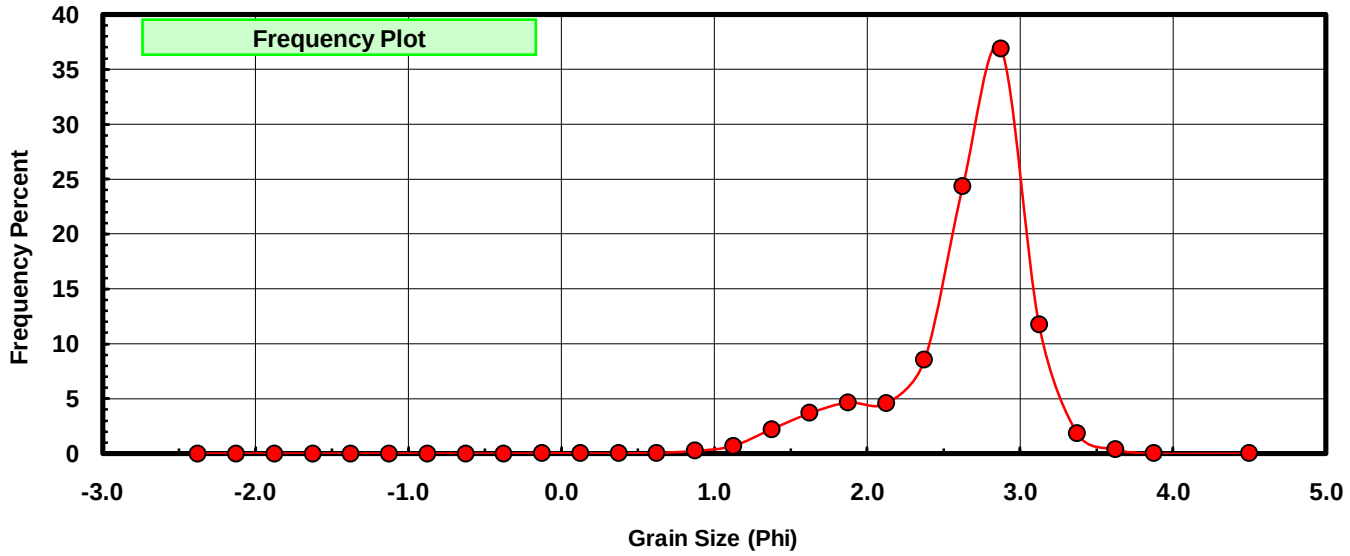
Statistical Explanation

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

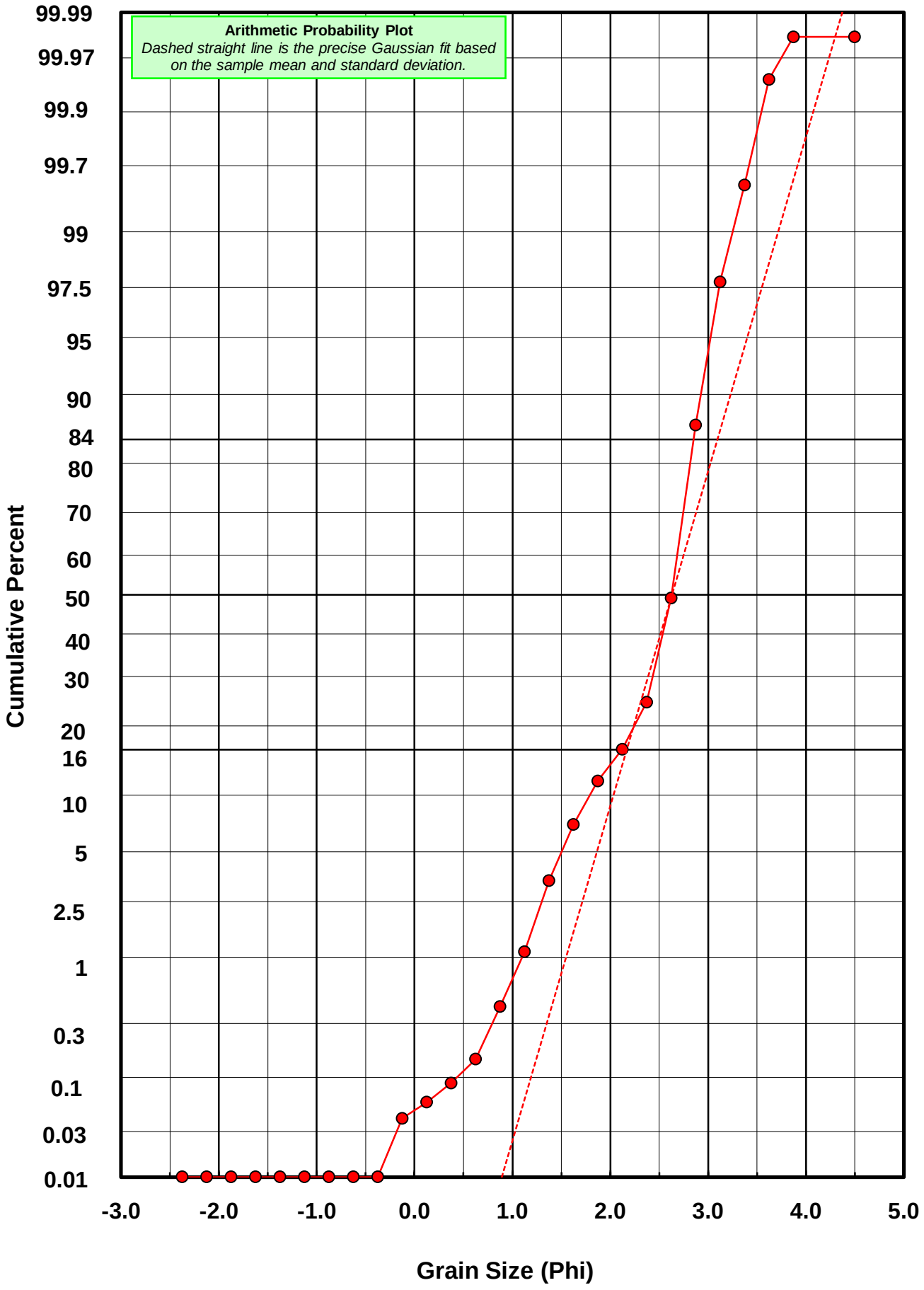
For Further Explanation, See Basillle et al. 2002

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)



LE-40


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)