Onshore Grab Sample

Sample: DU-03-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 21' 42.6"
Longitude: 81° 23' 48.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	65.692	grams
Total Fines in Sample	0.660	grams
Total Percent Fines	0.99	%

Dry Sieving Summary

Total Sample Weight	64.987	grams
Total Digested Weight	60.831	grams
Total Carbonate Weight	4.156	grams
Total Silica %	93.60	%
Total Carbonate %	6.40	%
Carbonate/Silica Ratio	0.068	

General Comments:

None

Description

Worked By: C. Fischler
Reviewed and Editted By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-03-SS

Total Sample Mass: 64.987 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.141	0.217	0.217
-1.50	-1.625	0.000	0.000	0.217
-1.25	-1.375	0.000	0.000	0.217
-1.00	-1.125	0.000	0.000	0.217
-0.75	-0.875	0.027	0.042	0.259
-0.50	-0.625	0.136	0.209	0.468
-0.25	-0.375	0.247	0.380	0.848
0.00	-0.125	0.388	0.597	1.445
0.25	0.125	0.644	0.991	2.436
0.50	0.375	0.931	1.433	3.868
0.75	0.625	1.700	2.616	6.484
1.00	0.875	3.963	6.098	12.583
1.25	1.125	3.903	6.006	18.588
1.50	1.375	4.626	7.118	25.707
1.75	1.625	5.381	8.280	33.987
2.00	1.875	6.666	10.257	44.244
2.25	2.125	7.467	11.490	55.734
2.50	2.375	9.817	15.106	70.840
2.75	2.625	10.820	16.649	87.490
3.00	2.875	6.016	9.257	96.747
3.25	3.125	1.612	2.480	99.228
3.50	3.375	0.382	0.588	99.815
3.75	3.625	0.085	0.131	99.946
4.00	3.875	0.021	0.032	99.978
5.00	4.500	0.014	0.022	100.000

Statistical Results			
Mean:	1.9712	phi	(0.255 mm)
Standard Dev:	0.7752	phi-units	(0.5843 mm)
Skewness:	-0.8768	dimensionless	
Kurtosis:	4.0395	dimensionless	
5th Moment:	-11.1018	dimensionless	
6th Moment:	47.7629	dimensionless	
RARD *	0.3933	dimensionless	
Median	2.0002	phi	(0.25 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

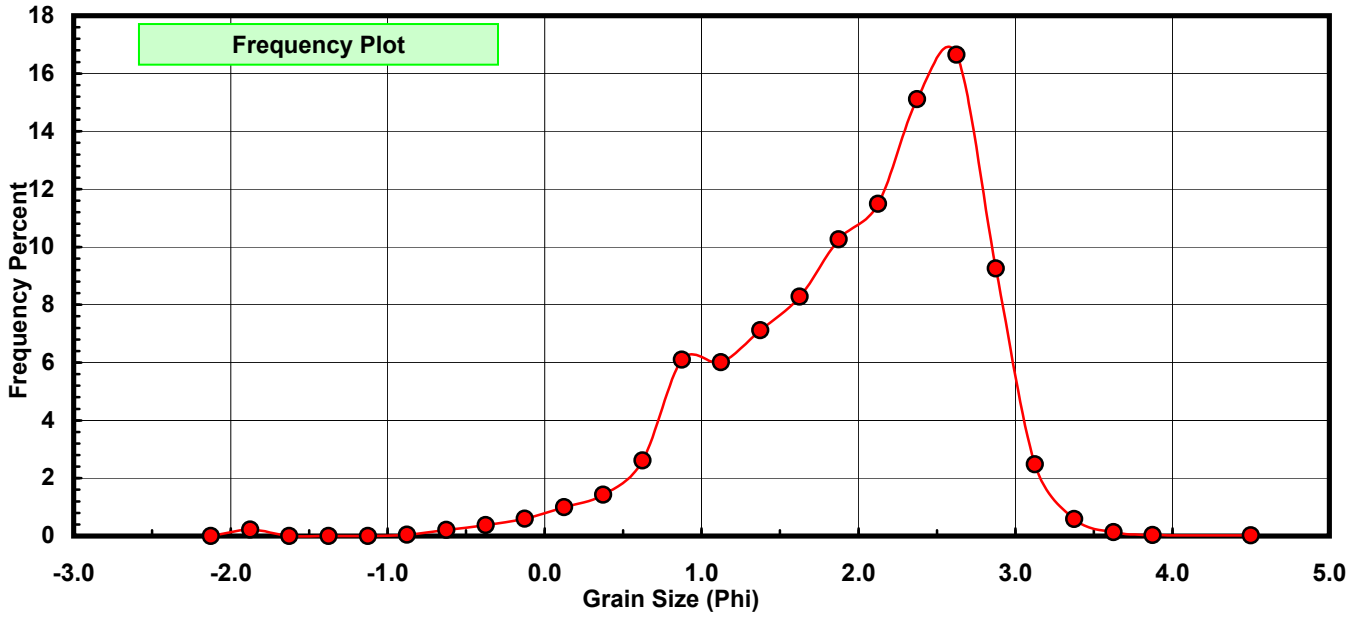
Statistical Explanation

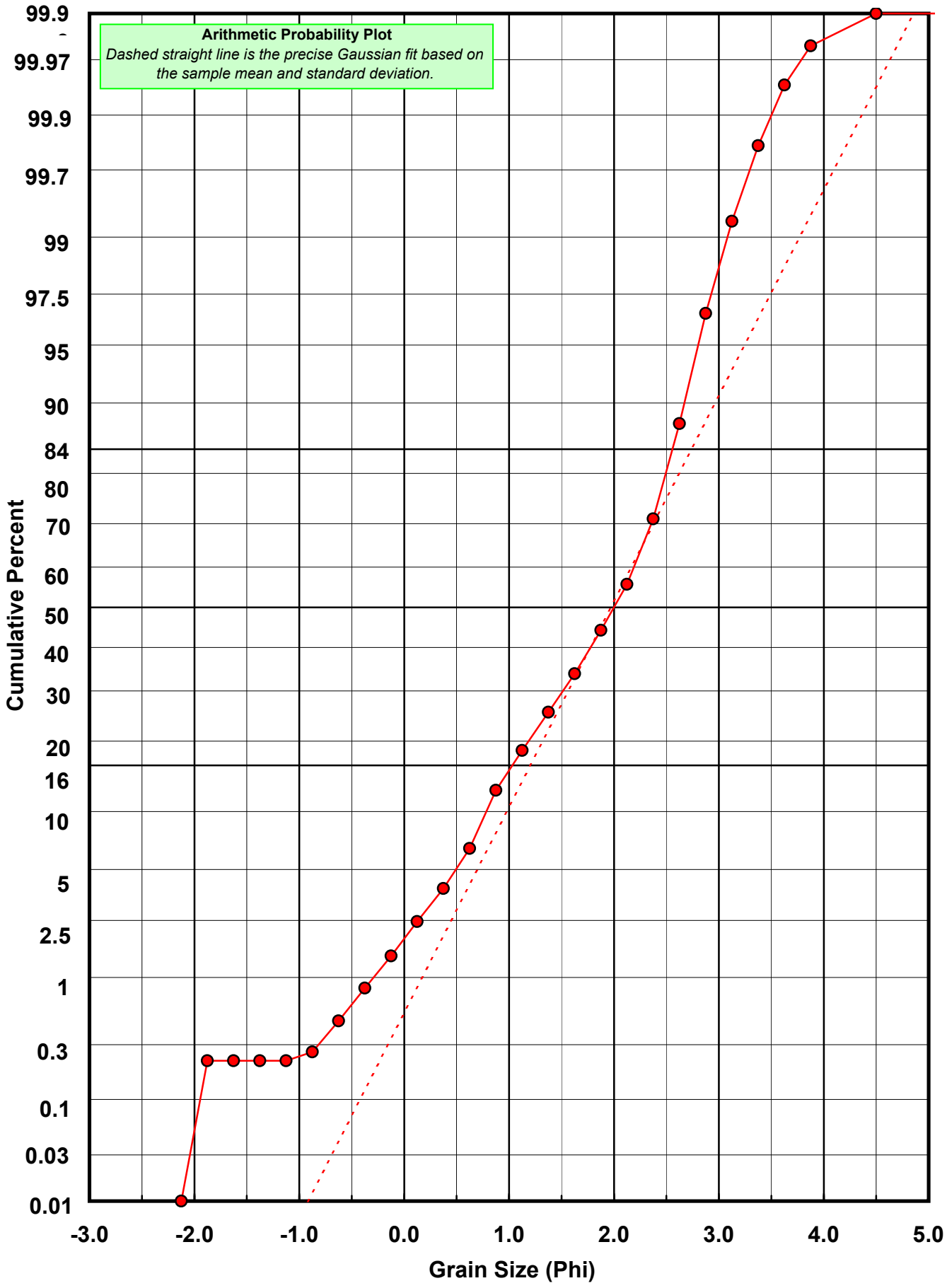
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Calculation Sheets

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)




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.9
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: DU-03-SS

Total Carbonate Mass: 4.843 grams

% Carbonate: 6.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.141	2.911	2.911
-1.50	-1.625	0.000	0.000	2.911
-1.25	-1.375	0.000	0.000	2.911
-1.00	-1.125	0.000	0.000	2.911
-0.75	-0.875	0.027	0.558	3.469
-0.50	-0.625	0.128	2.643	6.112
-0.25	-0.375	0.202	4.171	10.283
0.00	-0.125	0.330	6.814	17.097
0.25	0.125	0.355	7.330	24.427
0.50	0.375	0.399	8.239	32.666
0.75	0.625	0.482	9.953	42.618
1.00	0.875	0.578	11.935	54.553
1.25	1.125	0.483	9.973	64.526
1.50	1.375	0.294	6.071	70.597
1.75	1.625	0.078	1.611	72.207
2.00	1.875	0.171	3.531	75.738
2.25	2.125	0.551	11.377	87.115
2.50	2.375	0.593	12.244	99.360
2.75	2.625	0.000	0.000	99.360
3.00	2.875	0.000	0.000	99.360
3.25	3.125	0.000	0.000	99.360
3.50	3.375	0.022	0.454	99.814
3.75	3.625	0.005	0.103	99.917
4.00	3.875	0.004	0.083	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.9494	phi	(0.5178 mm)
Standard Dev:	1.0272	phi-units	(0.4906 mm)
Skewness:	-0.3243	dimensionless	
Kurtosis:	3.0221	dimensionless	
5th Moment:	-3.6712	dimensionless	
6th Moment:	16.1015	dimensionless	
RARD *	1.0819	dimensionless	
Median	0.7796	phi	(0.5825 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 Calculation Sheets

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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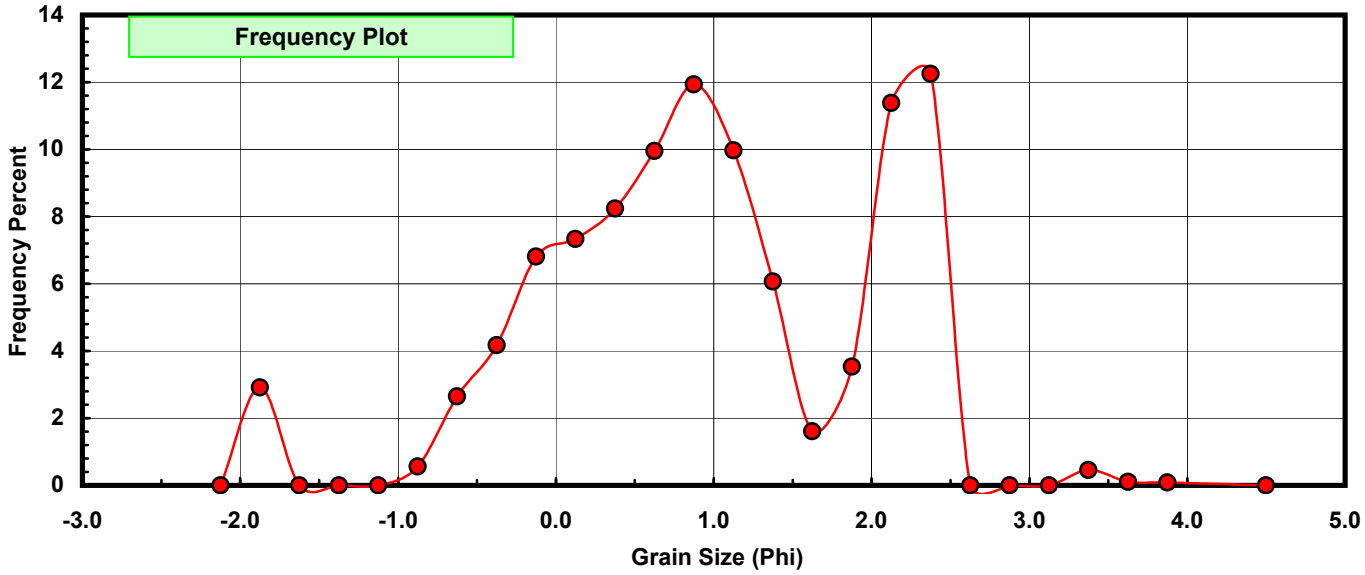

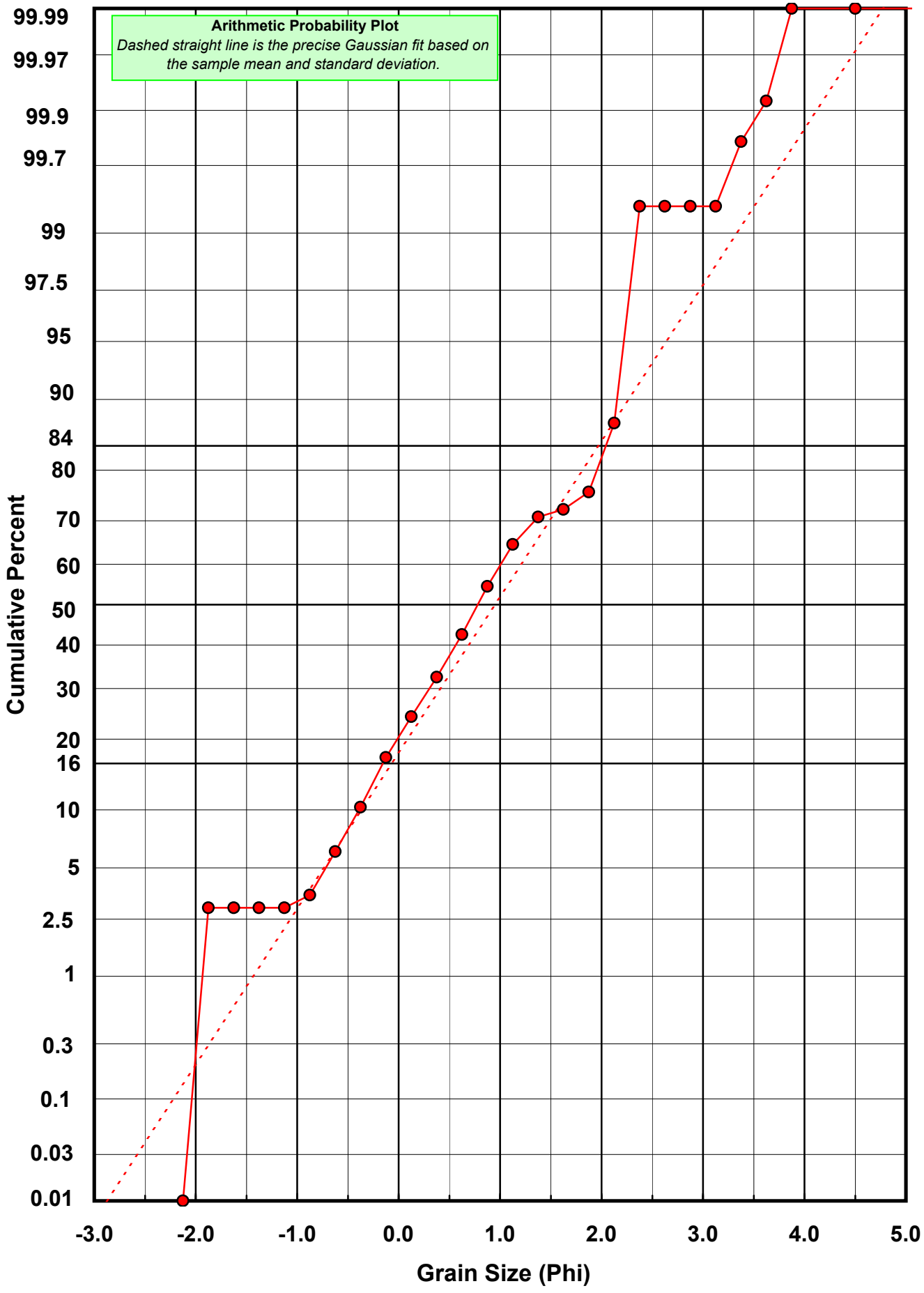
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-03-SS

Total Digested Mass: 60.824 grams

% Silica: 93.6 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.008	0.013	0.013
-0.25	-0.375	0.045	0.074	0.087
0.00	-0.125	0.058	0.095	0.182
0.25	0.125	0.289	0.475	0.658
0.50	0.375	0.532	0.875	1.532
0.75	0.625	1.218	2.002	3.535
1.00	0.875	3.385	5.565	9.100
1.25	1.125	3.420	5.623	14.723
1.50	1.375	4.332	7.122	21.845
1.75	1.625	5.303	8.719	30.564
2.00	1.875	6.495	10.678	41.242
2.25	2.125	6.916	11.371	52.612
2.50	2.375	9.224	15.165	67.778
2.75	2.625	11.436	18.802	86.579
3.00	2.875	6.068	9.976	96.556
3.25	3.125	1.638	2.693	99.249
3.50	3.375	0.360	0.592	99.841
3.75	3.625	0.080	0.132	99.972
4.00	3.875	0.017	0.028	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.0598	phi	(0.2398 mm)
Standard Dev:	0.6849	phi-units	(0.6221 mm)
Skewness:	-0.5770	dimensionless	
Kurtosis:	2.6619	dimensionless	
5th Moment:	-3.7472	dimensionless	
6th Moment:	12.4666	dimensionless	
RARD *	0.3325	dimensionless	
Median	2.0676	phi	(0.2386 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

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Millimeter data calculated by mm = 2^(-phi)

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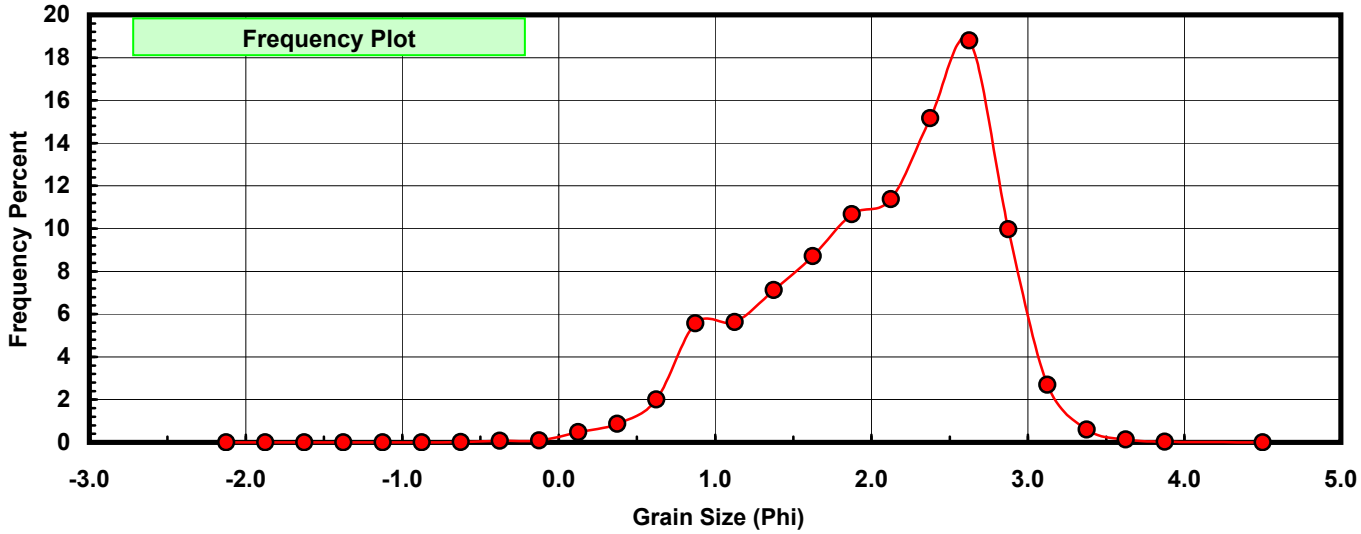

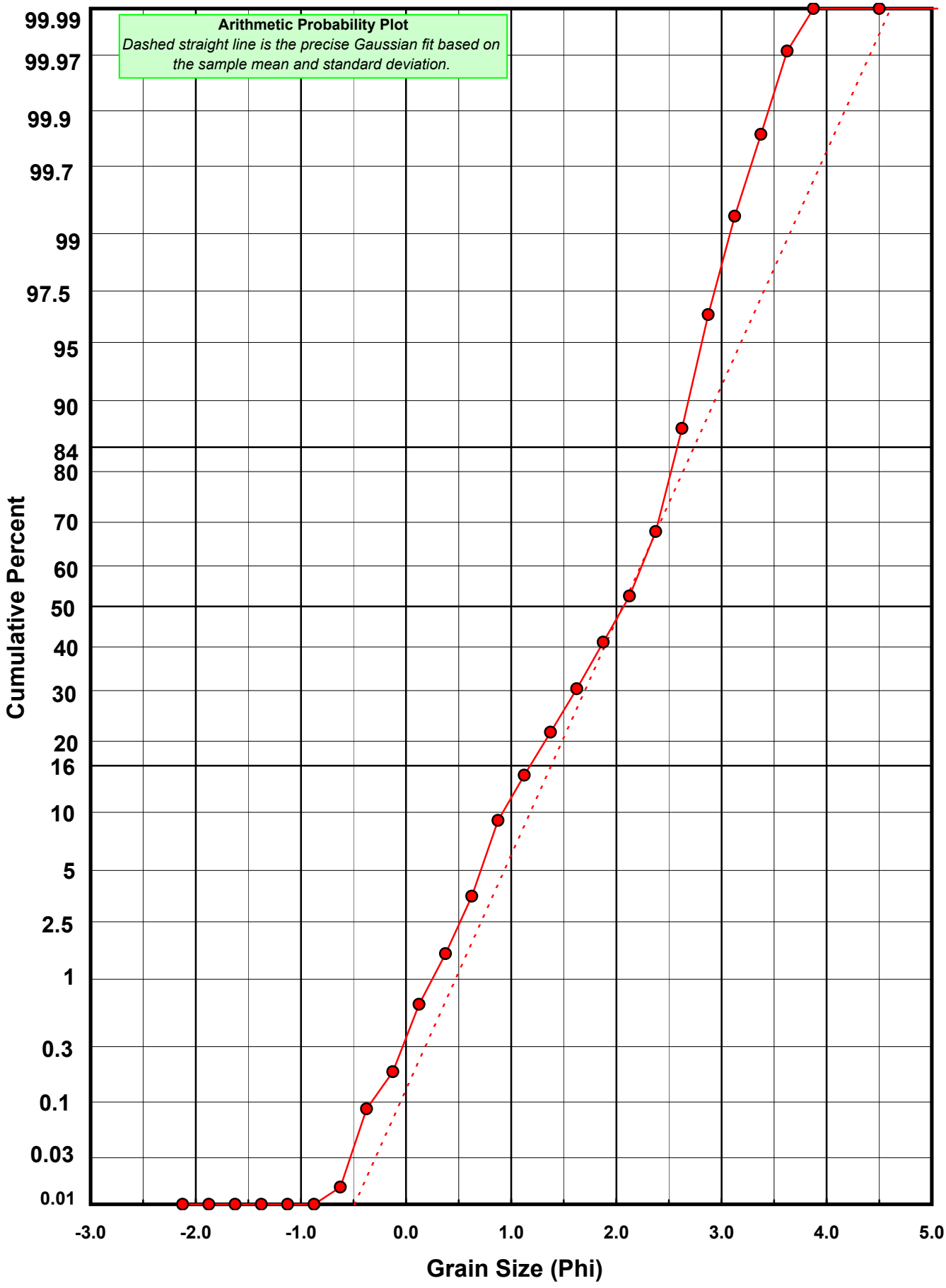
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Grain Size (Phi)