Onshore Grab Sample

Sample: DD-09
Sample Taken By: D. Phelps
Sample Collected On: 2/24/09
Splits? N/A

County: Dade
Latitude: 25° 50' 50.3"
Longitude: 80° 07' 07.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	64.1	grams
Total Fines in Sample	0.233	grams
Total Percent Fines	0.36	%

Dry Sieving Summary

Total Sample Weight	63.912	grams
Total Digested Weight	6.726	grams
Total Carbonate Weight	57.186	grams
Total Silica %	10.52	%
Total Carbonate %	89.48	%
Carbonate/Silica Ratio	8.502	

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DD-09

Total Sample Mass: 63.912 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.190	0.297	0.297
-2.00	-2.125	0.000	0.000	0.297
-1.75	-1.875	0.000	0.000	0.297
-1.50	-1.625	0.000	0.000	0.297
-1.25	-1.375	0.036	0.056	0.354
-1.00	-1.125	0.088	0.138	0.491
-0.75	-0.875	0.251	0.393	0.884
-0.50	-0.625	0.629	0.984	1.868
-0.25	-0.375	1.703	2.665	4.533
0.00	-0.125	2.397	3.750	8.283
0.25	0.125	2.972	4.650	12.933
0.50	0.375	5.875	9.192	22.126
0.75	0.625	8.925	13.965	36.090
1.00	0.875	11.246	17.596	53.686
1.25	1.125	9.598	15.018	68.704
1.50	1.375	8.547	13.373	82.077
1.75	1.625	5.657	8.851	90.928
2.00	1.875	3.222	5.041	95.969
2.25	2.125	1.698	2.657	98.626
2.50	2.375	0.524	0.820	99.446
2.75	2.625	0.266	0.416	99.862
3.00	2.875	0.064	0.100	99.962
3.25	3.125	0.018	0.028	99.991
3.50	3.375	0.001	0.002	99.992
3.75	3.625	0.003	0.005	99.997
4.00	3.875	0.001	0.002	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	0.9300	phi	(0.5248 mm)
Standard Dev:	0.6608	phi-units	(0.6325 mm)
Skewness:	-0.5119	dimensionless	
Kurtosis:	4.6123	dimensionless	
5th Moment:	-10.5027	dimensionless	
6th Moment:	60.7949	dimensionless	
RARD *	0.7105	dimensionless	
Median	0.8226	phi	(0.5654 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

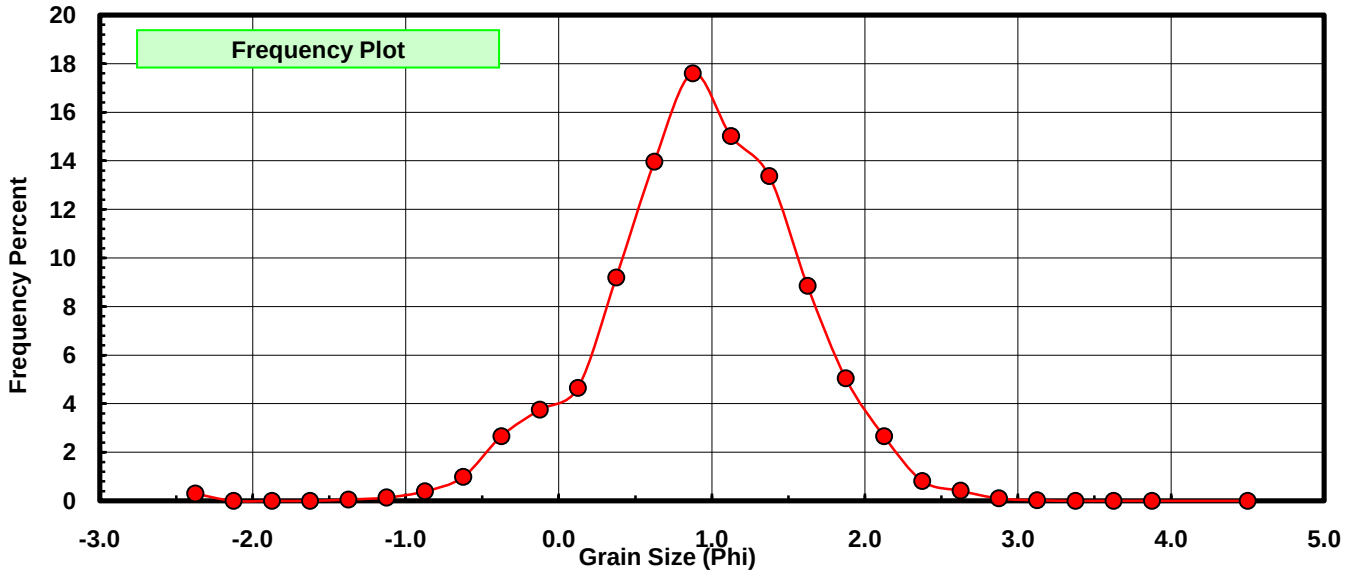
Statistical Explanation

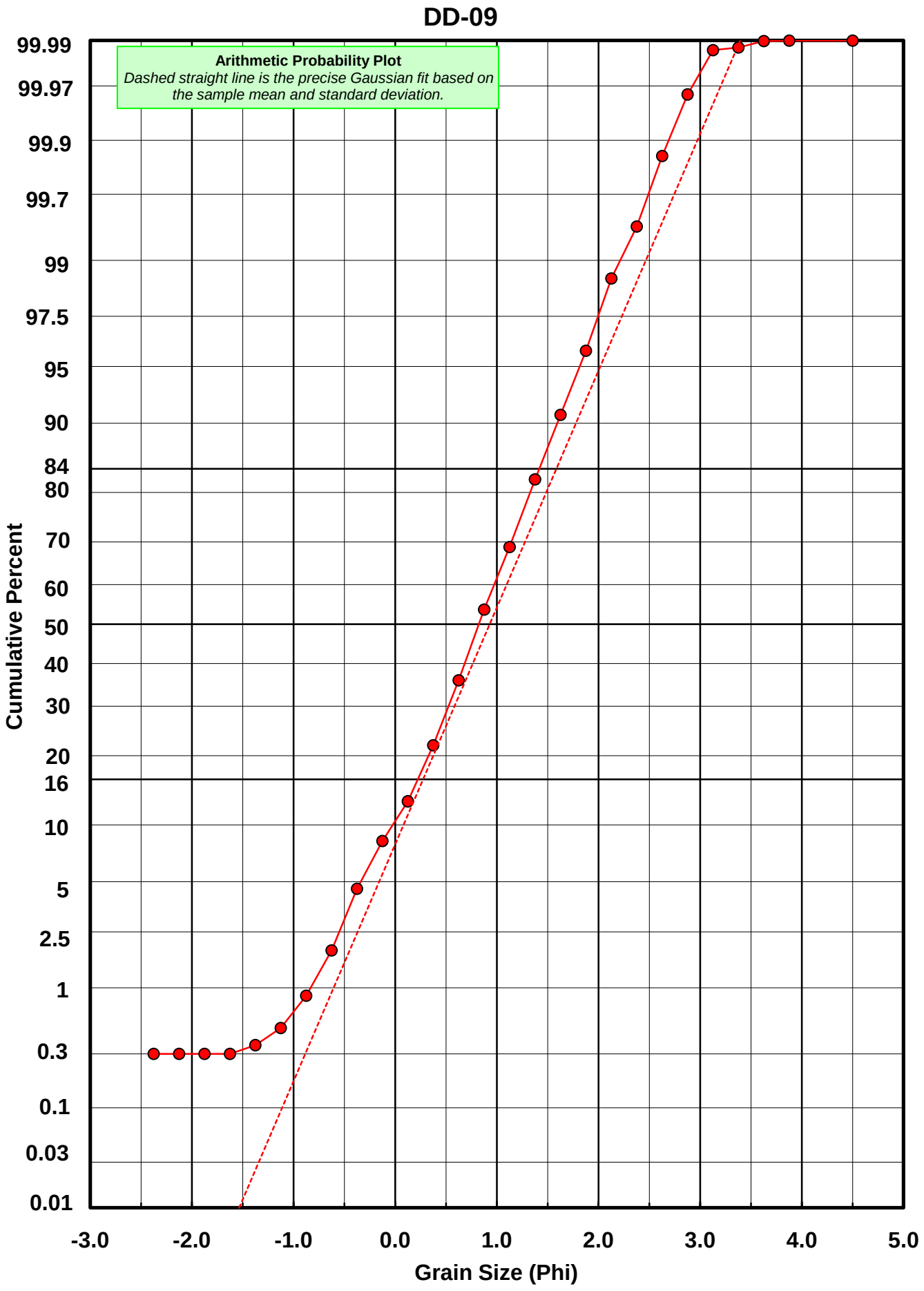
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




DD-09
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)