Onshore Grab Sample

Sample: GF-27-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/10/10
Splits? N/A

County: Gulf
Latitude: 29° 41' 1.3" N
Longitude: 85° 16' 29.4" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	56.534	grams
Total Fines in Sample	0.060	grams
Total Percent Fines	0.11	%

Dry Sieving Summary

Total Sample Weight	56.221	grams
Total Digested Weight	55.935	grams
Total Carbonate Weight	0.286	grams
Total Silica %	99.49	%
Total Carbonate %	0.51	%
Carbonate/Silica Ratio	0.005	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: GF-27-BB

Total Sample Mass: 56.221 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	0.000	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	0.000	0.000	0.000
0.25	0.125	0.038	0.068	0.068
0.50	0.375	0.049	0.087	0.155
0.75	0.625	0.093	0.165	0.320
1.00	0.875	0.140	0.249	0.569
1.25	1.125	0.468	0.832	1.402
1.50	1.375	1.703	3.029	4.431
1.75	1.625	5.169	9.194	13.625
2.00	1.875	8.175	14.541	28.166
2.25	2.125	12.805	22.776	50.942
2.50	2.375	13.239	23.548	74.490
2.75	2.625	10.320	18.356	92.846
3.00	2.875	3.547	6.309	99.155
3.25	3.125	0.382	0.679	99.835
3.50	3.375	0.059	0.105	99.940
3.75	3.625	0.024	0.043	99.982
4.00	3.875	0.007	0.012	99.995
5.00	4.50	0.003	0.005	100.000

Statistical Results			
Mean:	2.2102	phi	(0.2161 mm)
Standard Dev:	0.4152	phi-units	(0.7499 mm)
Skewness:	-0.4892	dimensionless	
Kurtosis:	3.7235	dimensionless	
5th Moment:	-6.5376	dimensionless	
6th Moment:	36.5122	dimensionless	
RARD *	0.1879	dimensionless	
Median	2.1147	phi	(0.2309 mm)

* RARD = reciprocal absolute relative dispersion (see below)

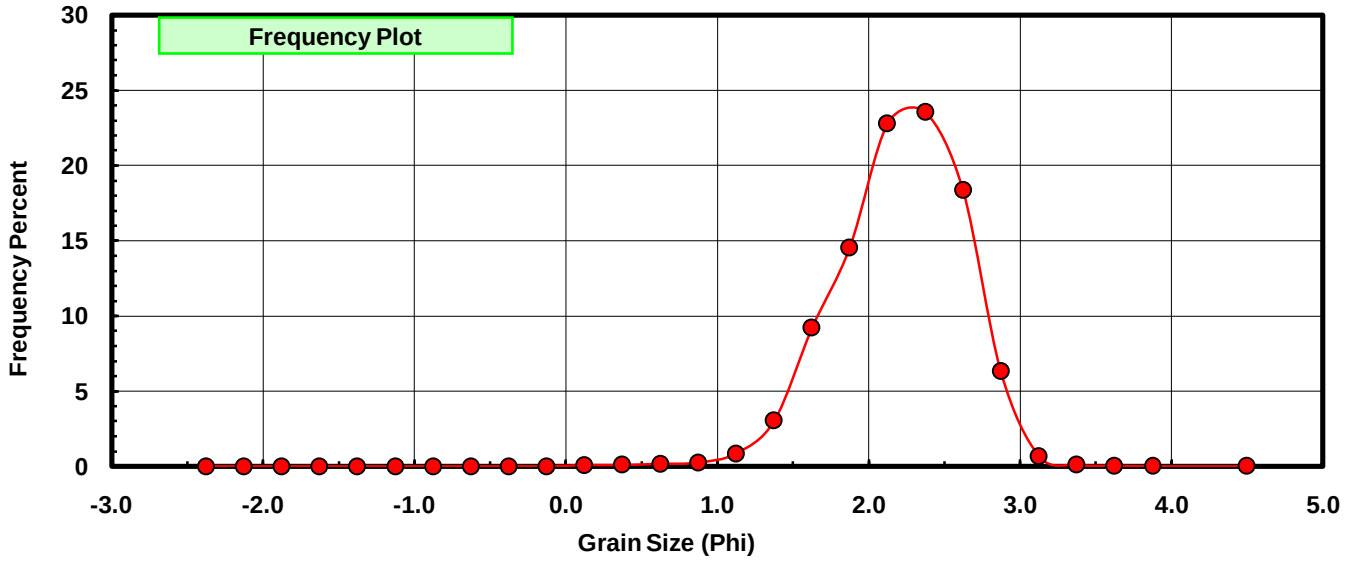
Statistical Explanation

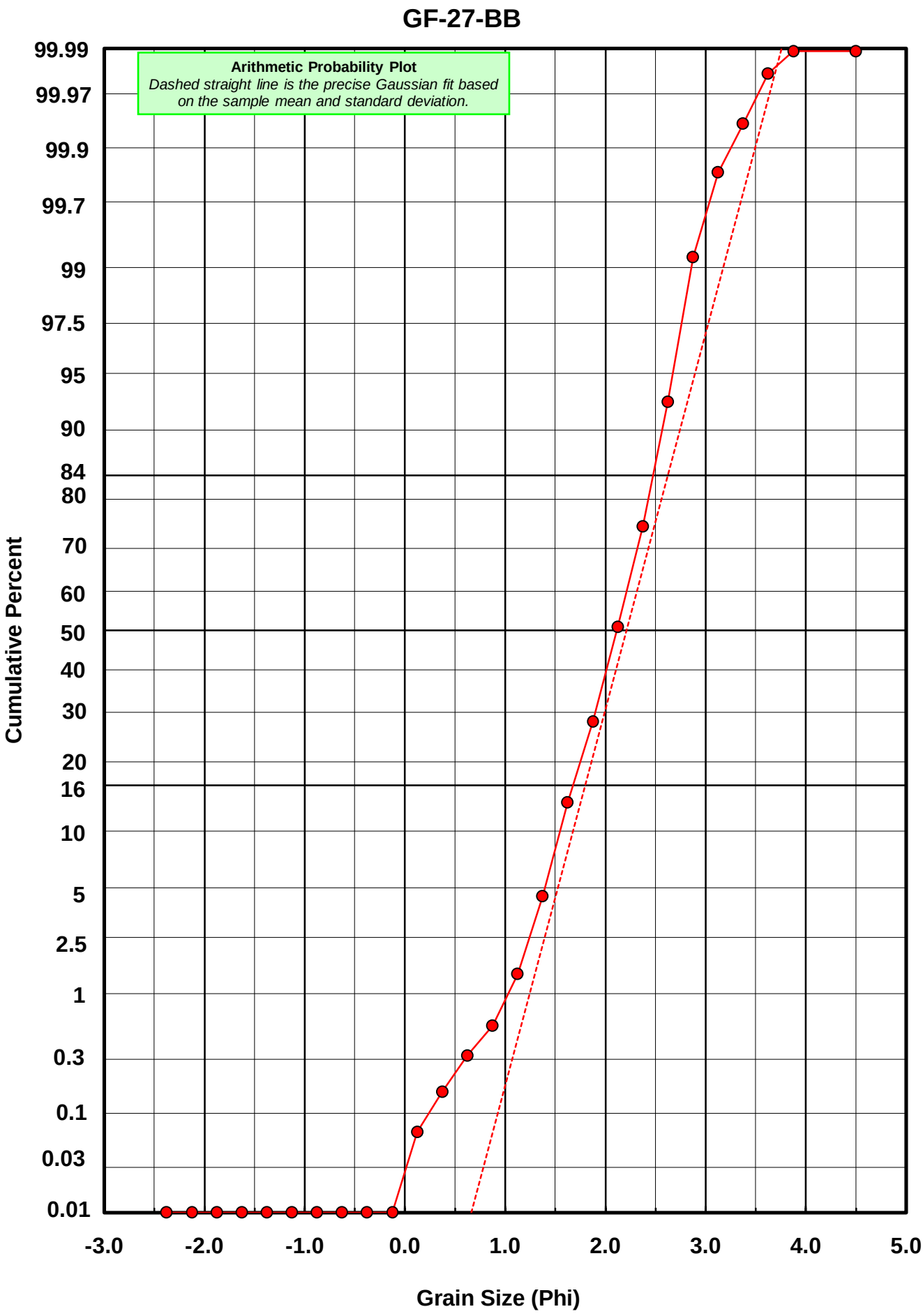
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




GF-27-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)