Onshore Grab Sample

Sample: OA-27-BB
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 22' 47.3"
Longitude: 86° 23' 55.25"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	68.21	grams
Total Fines in Sample	0.019	grams
Total Percent Fines	0.03	%

Dry Sieving Summary

Total Sample Weight	68.126	grams
Total Digested Weight	68.066	grams
Total Carbonate Weight	0.060	grams
Total Silica %	99.91	%
Total Carbonate %	0.09	%
Carbonate/Silica Ratio	0.001	

General Comments:

Not enough Carbonate Material to run a Post-Digestion Analysis

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: OA-27-BB

Total Sample Mass: 68.126 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	0.000	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	0.003	0.004	0.004
-0.25	-0.375	0.013	0.019	0.023
0.00	-0.125	0.035	0.051	0.075
0.25	0.125	0.167	0.245	0.320
0.50	0.375	0.567	0.832	1.152
0.75	0.625	1.526	2.240	3.392
1.00	0.875	5.405	7.934	11.326
1.25	1.125	8.208	12.048	23.374
1.50	1.375	14.623	21.465	44.839
1.75	1.625	16.879	24.776	69.615
2.00	1.875	13.398	19.667	89.282
2.25	2.125	5.567	8.172	97.453
2.50	2.375	1.349	1.980	99.433
2.75	2.625	0.265	0.389	99.822
3.00	2.875	0.073	0.107	99.930
3.25	3.125	0.024	0.035	99.965
3.50	3.375	0.008	0.012	99.977
3.75	3.625	0.003	0.004	99.981
4.00	3.875	0.004	0.006	99.987
5.00	4.500	0.000	0.000	99.987
5.00	4.50	0.009	0.013	100.000

Statistical Results			
Mean:	1.5252	phi	(0.3474 mm)
Standard Dev:	0.4200	phi-units	(0.7474 mm)
Skewness:	-0.2321	dimensionless	
Kurtosis:	3.6888	dimensionless	
5th Moment:	0.2751	dimensionless	
6th Moment:	40.7970	dimensionless	
RARD *	0.2754	dimensionless	
Median	1.4271	phi	(0.3719 mm)

* RARD = reciprocal absolute relative dispersion (see below)

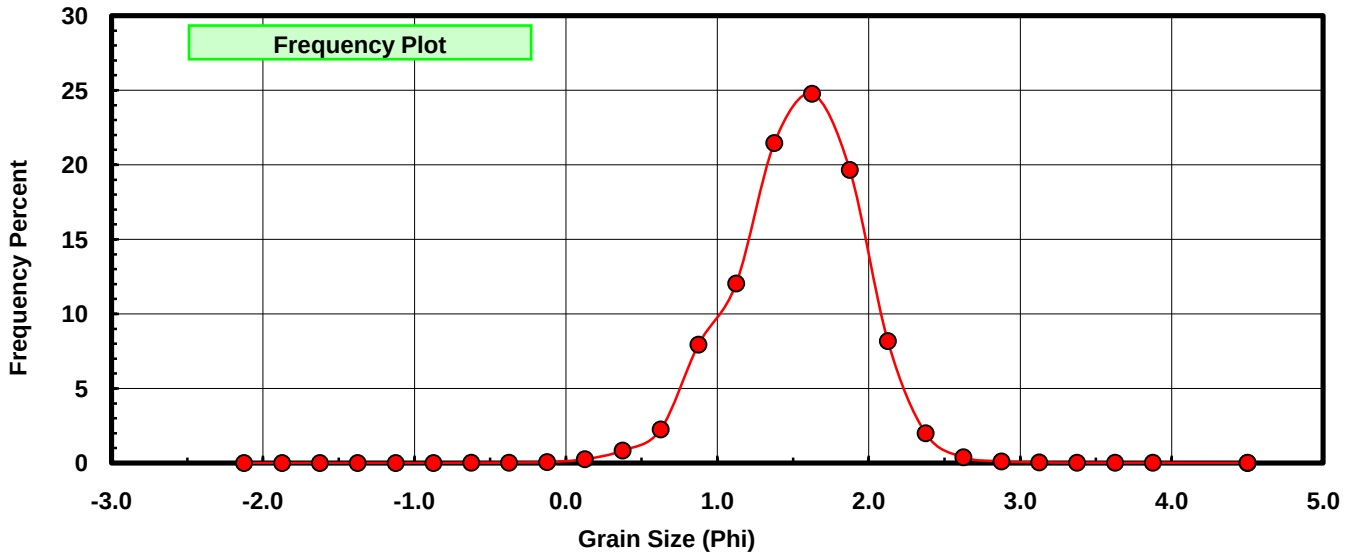
Statistical Explanation

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

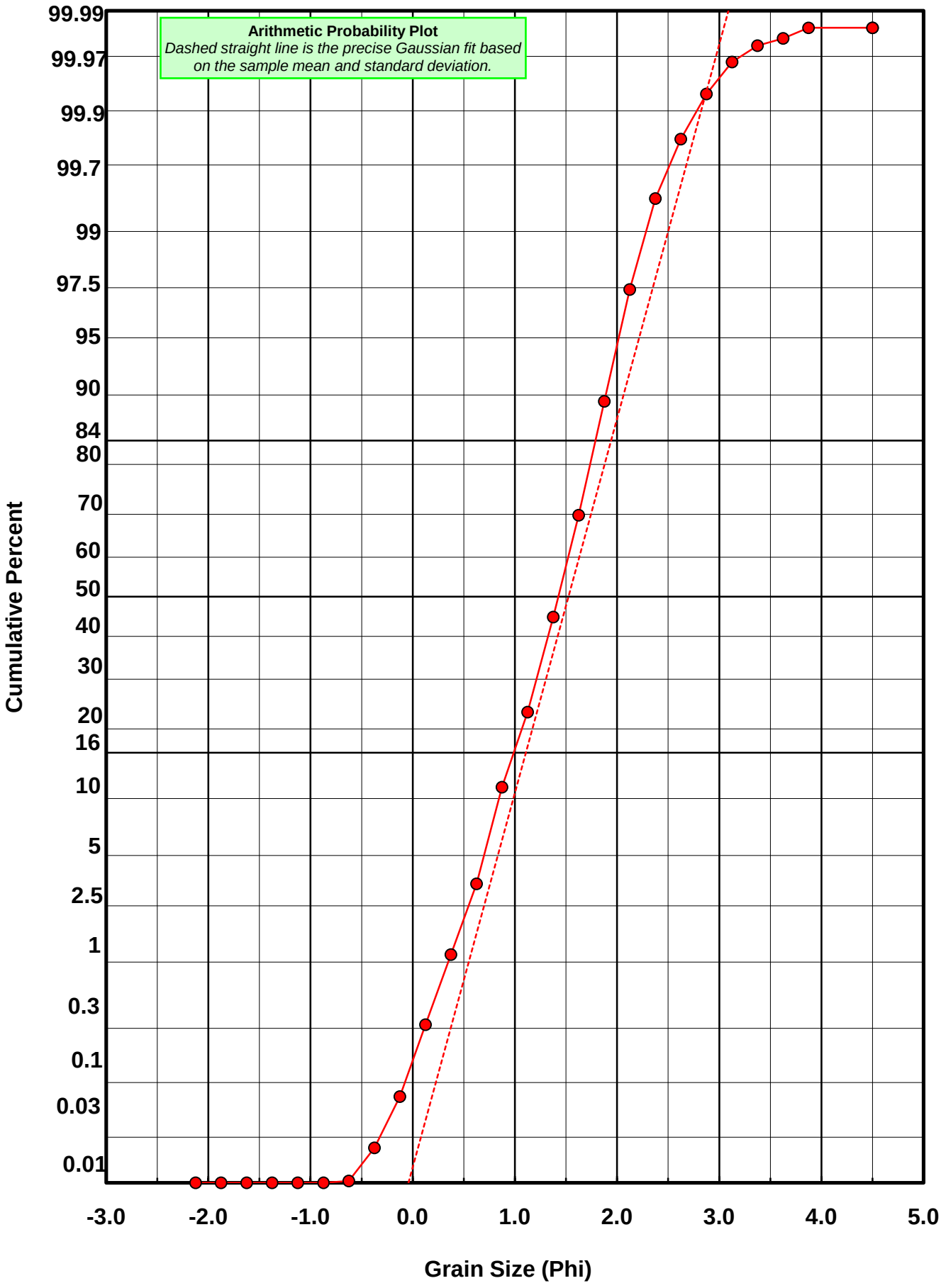
For Further Explanation, See Basillle et al. 2002

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)



OA-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)