Onshore Grab Sample

Sample: OA-27-SS
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	72.076	grams
Total Fines in Sample	0.502	grams
Total Percent Fines	0.69	%

Dry Sieving Summary

Total Sample Weight	71.481	grams
Total Digested Weight	71.402	grams
Total Carbonate Weight	0.079	grams
Total Silica %	99.89	%
Total Carbonate %	0.11	%
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-SS

Total Sample Mass: 71.481 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	0.015	0.021	0.021
-0.50	-0.625	0.012	0.017	0.038
-0.25	-0.375	0.097	0.136	0.173
0.00	-0.125	0.297	0.415	0.589
0.25	0.125	0.678	0.949	1.537
0.50	0.375	1.505	2.105	3.643
0.75	0.625	2.665	3.728	7.371
1.00	0.875	5.934	8.302	15.673
1.25	1.125	6.153	8.608	24.281
1.50	1.375	10.525	14.724	39.005
1.75	1.625	15.803	22.108	61.113
2.00	1.875	15.463	21.632	82.745
2.25	2.125	8.214	11.491	94.236
2.50	2.375	2.571	3.597	97.833
2.75	2.625	0.940	1.315	99.148
3.00	2.875	0.408	0.571	99.719
3.25	3.125	0.151	0.211	99.930
3.50	3.375	0.033	0.046	99.976
3.75	3.625	0.009	0.013	99.989
4.00	3.875	0.004	0.006	99.994
5.00	4.500	0.000	0.000	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	1.5575	phi	(0.3397 mm)
Standard Dev:	0.5297	phi-units	(0.6927 mm)
Skewness:	-0.4823	dimensionless	
Kurtosis:	3.6614	dimensionless	
5th Moment:	-3.7232	dimensionless	
6th Moment:	26.0062	dimensionless	
RARD *	0.3401	dimensionless	
Median	1.4993	phi	(0.3537 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

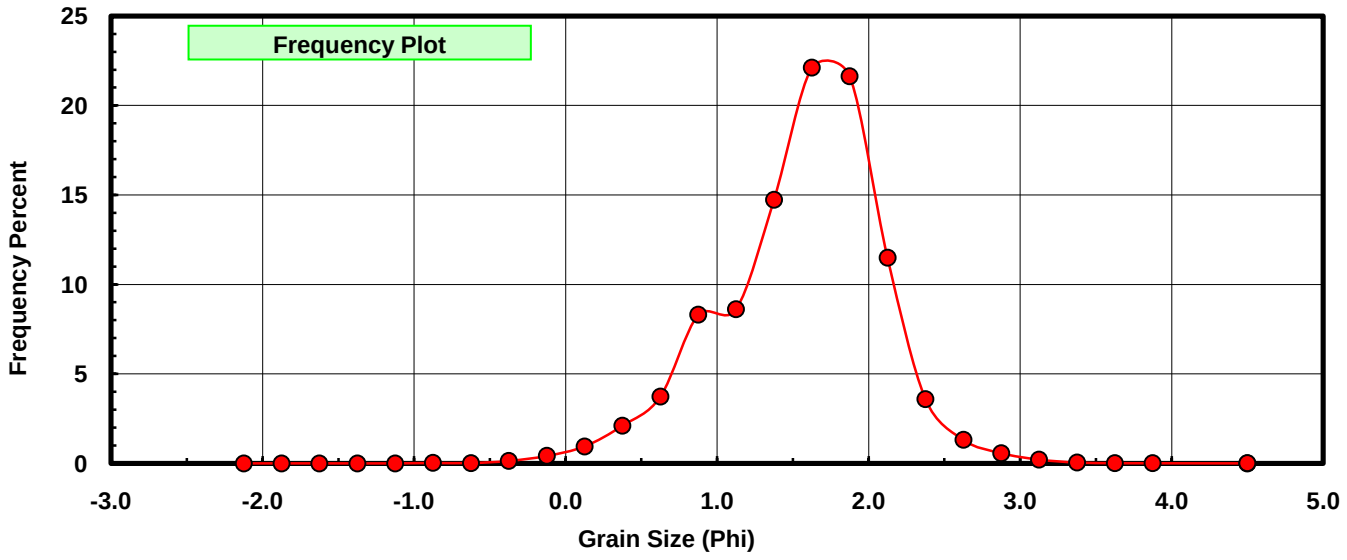
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

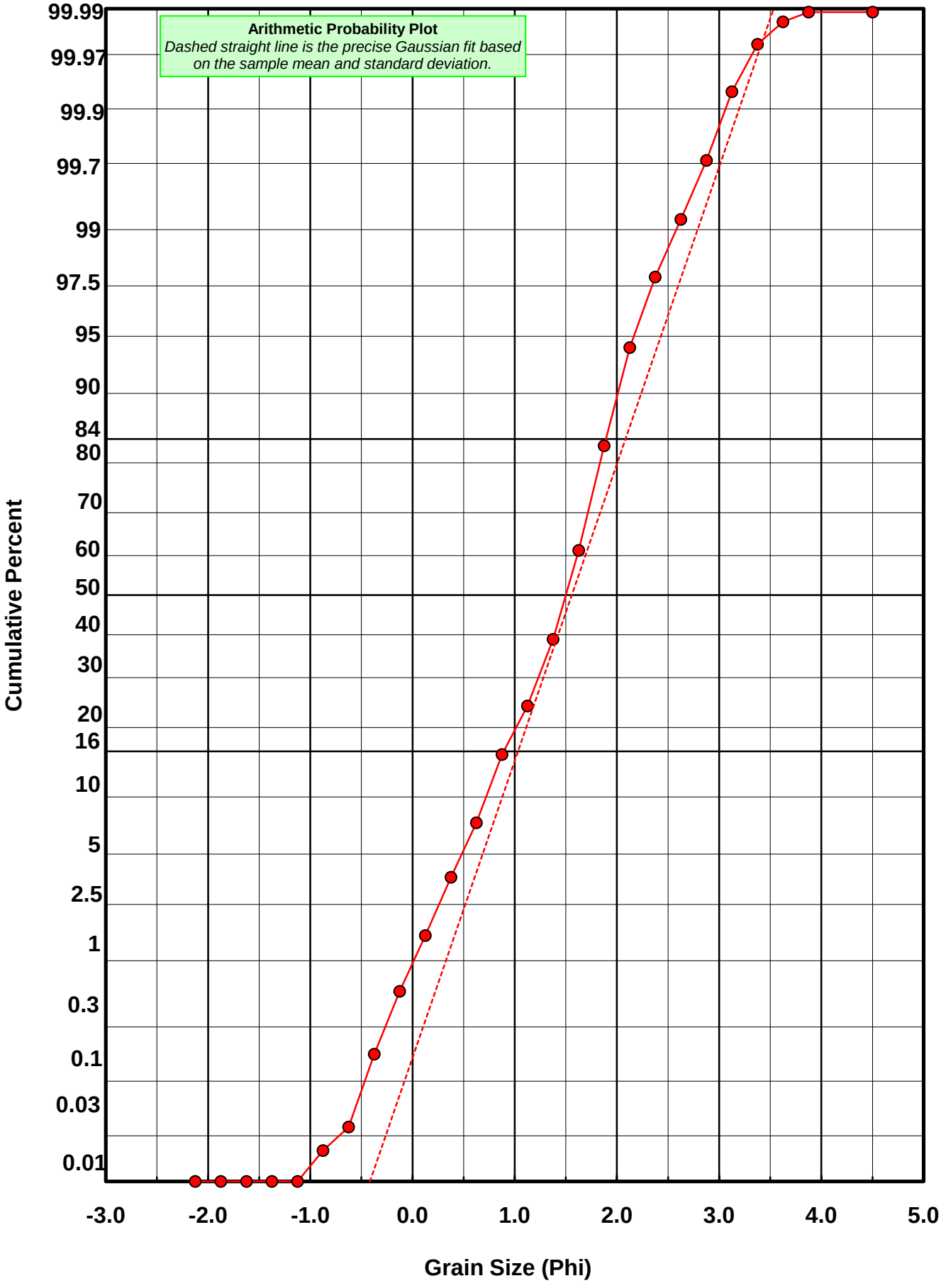
Millimeter data calculated by mm = 2^(-phi)

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-SS


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)