Onshore Grab Sample

Sample: OA-25-SS
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 22' 58.53"
Longitude: 86° 25' 53.46"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	70.285	grams
Total Fines in Sample	0.295	grams
Total Percent Fines	0.42	%

Dry Sieving Summary

Total Sample Weight	69.923	grams
Total Digested Weight	69.876	grams
Total Carbonate Weight	0.047	grams
Total Silica %	99.93	%
Total Carbonate %	0.07	%
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-25-SS

Total Sample Mass: 69.923 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	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.003	0.004	0.004
0.25	0.125	0.036	0.051	0.056
0.50	0.375	0.097	0.139	0.194
0.75	0.625	0.291	0.416	0.611
1.00	0.875	1.646	2.354	2.965
1.25	1.125	3.839	5.490	8.455
1.50	1.375	9.775	13.980	22.435
1.75	1.625	18.336	26.223	48.658
2.00	1.875	20.522	29.349	78.007
2.25	2.125	11.581	16.563	94.570
2.50	2.375	2.925	4.183	98.753
2.75	2.625	0.553	0.791	99.544
3.00	2.875	0.204	0.292	99.836
3.25	3.125	0.075	0.107	99.943
3.50	3.375	0.029	0.041	99.984
3.75	3.625	0.007	0.010	99.994
4.00	3.875	0.001	0.001	99.996
5.00	4.500	0.000	0.000	99.996
5.00	4.50	0.003	0.004	100.000

Statistical Results			
Mean:	1.7400	phi	(0.2994 mm)
Standard Dev:	0.3637	phi-units	(0.7772 mm)
Skewness:	-0.2098	dimensionless	
Kurtosis:	4.0619	dimensionless	
5th Moment:	-0.2857	dimensionless	
6th Moment:	41.5379	dimensionless	
RARD *	0.2090	dimensionless	
Median	1.6364	phi	(0.3217 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

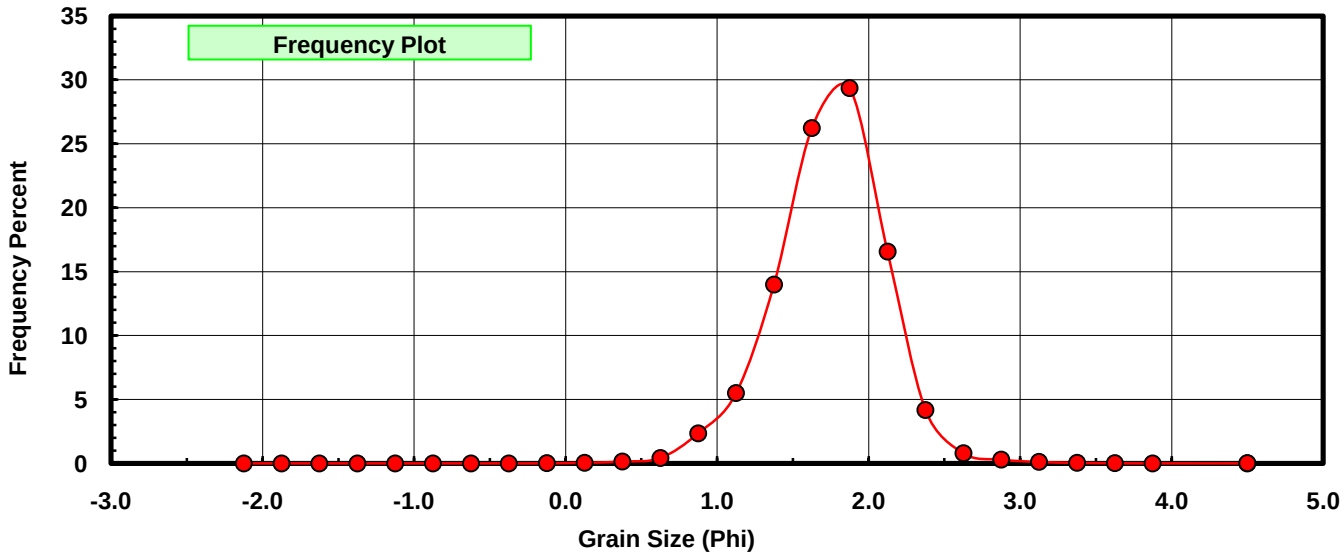
Statistical Explanation

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

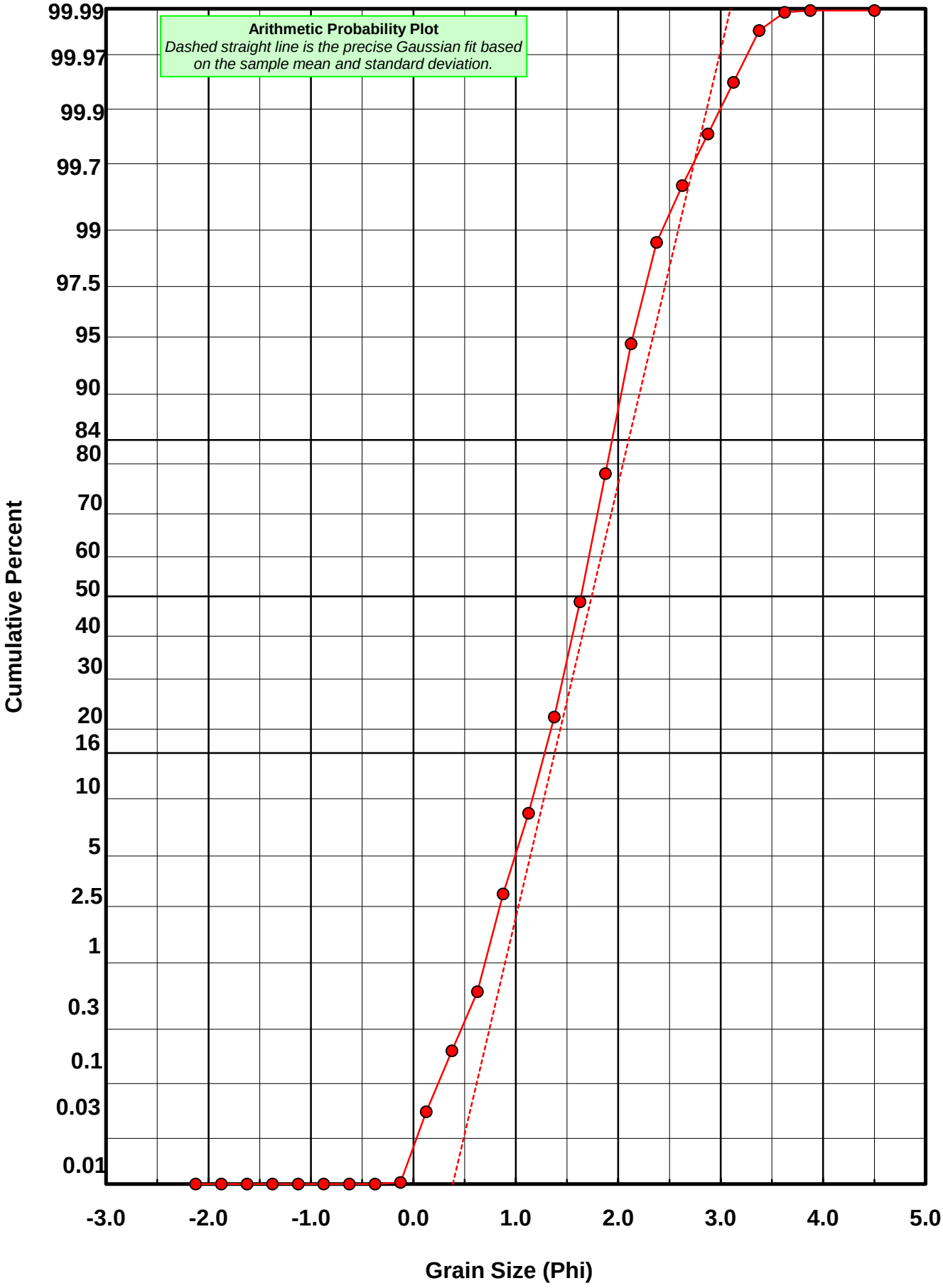
For Further Explanation, See Basillle et al. 2002

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-25-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)