Onshore Grab Sample

Sample: OA-23-B
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 5.51"
Longitude: 86° 27' 45.26"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	79.167	grams
Total Fines in Sample	0.040	grams
Total Percent Fines	0.05	%

Dry Sieving Summary

Total Sample Weight	79.064	grams
Total Digested Weight	79.007	grams
Total Carbonate Weight	0.057	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-23-B

Total Sample Mass: 79.064 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	0.008	0.010	0.010
0.00	-0.125	0.081	0.102	0.113
0.25	0.125	0.305	0.386	0.498
0.50	0.375	1.085	1.372	1.871
0.75	0.625	2.780	3.516	5.387
1.00	0.875	9.333	11.804	17.191
1.25	1.125	11.259	14.240	31.431
1.50	1.375	16.610	21.008	52.440
1.75	1.625	16.810	21.261	73.701
2.00	1.875	12.972	16.407	90.108
2.25	2.125	6.126	7.748	97.856
2.50	2.375	1.521	1.924	99.780
2.75	2.625	0.130	0.164	99.944
3.00	2.875	0.020	0.025	99.970
3.25	3.125	0.009	0.011	99.981
3.50	3.375	0.006	0.008	99.989
3.75	3.625	0.003	0.004	99.992
4.00	3.875	0.001	0.001	99.994
5.00	4.500	0.000	0.000	99.994
5.00	4.50	0.005	0.006	100.000

Statistical Results			
Mean:	1.4494	phi	(0.3662 mm)
Standard Dev:	0.4465	phi-units	(0.7338 mm)
Skewness:	-0.2026	dimensionless	
Kurtosis:	2.9814	dimensionless	
5th Moment:	-0.7979	dimensionless	
6th Moment:	21.4228	dimensionless	
RARD *	0.3081	dimensionless	
Median	1.3460	phi	(0.3934 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

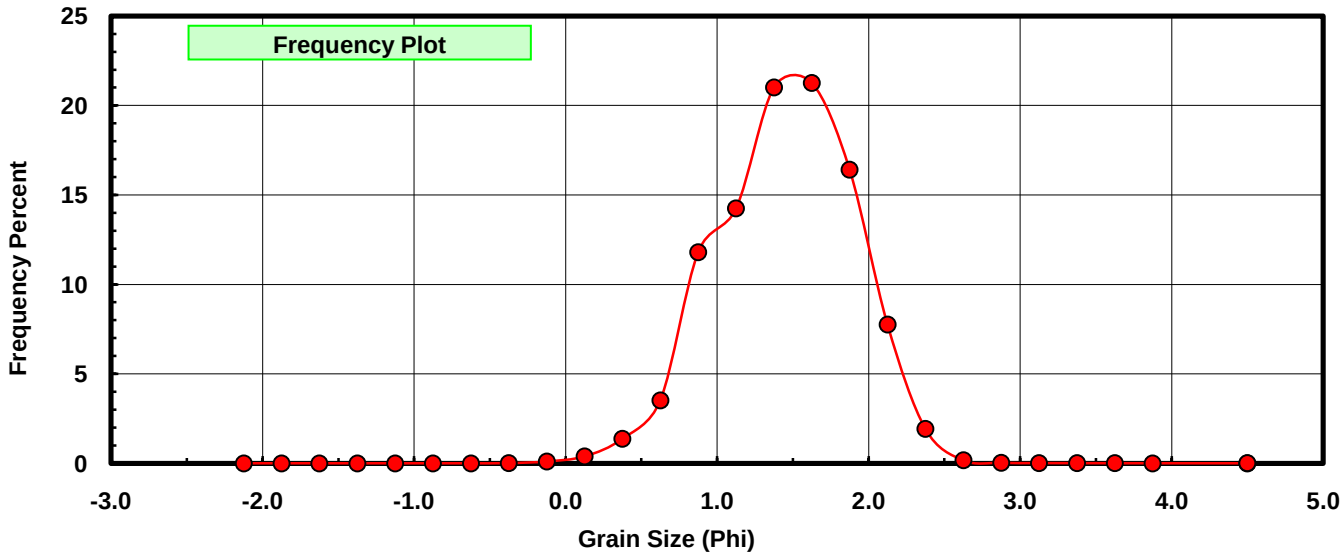
Statistical Explanation

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

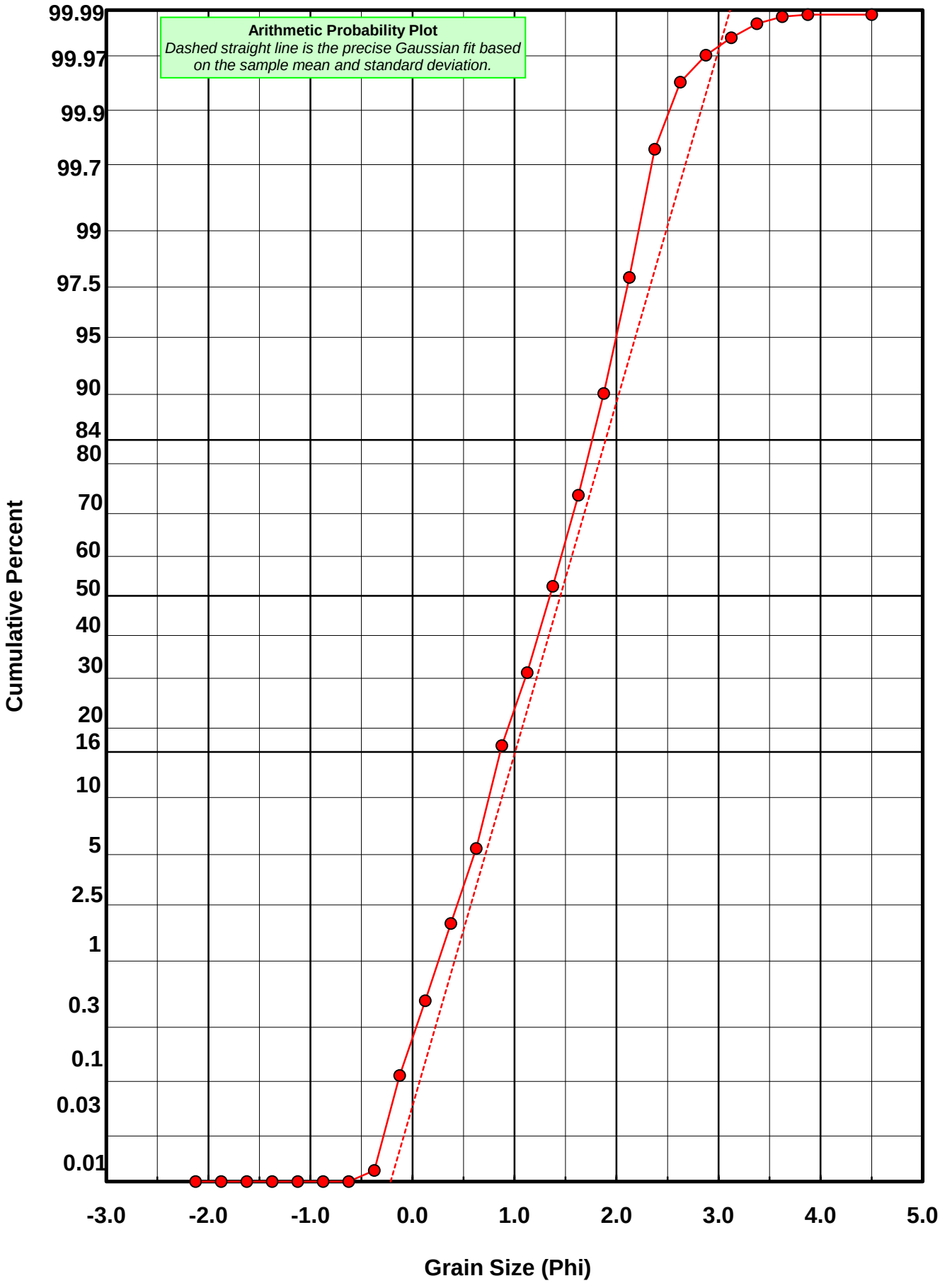
For Further Explanation, See Basillle et al. 2002

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-23-B


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)