Onshore Grab Sample

Sample: OA-22-BB
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 2.52"
Longitude: 86° 28' 46.86"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	61.179	grams
Total Fines in Sample	0.015	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	61.113	grams
Total Digested Weight	54.815	grams
Total Carbonate Weight	6.298	grams
Total Silica %	89.69	%
Total Carbonate %	10.31	%
Carbonate/Silica Ratio	0.115	

General Comments:

-1.25 phi: Shell Fragments Only; -0.50: Shell Material and Organics; 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-22-BB

Total Sample Mass: 61.113 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	0.019	0.031	0.031
-1.00	-1.125	0.000	0.000	0.031
-0.75	-0.875	0.000	0.000	0.031
-0.50	-0.625	0.006	0.010	0.041
-0.25	-0.375	0.006	0.010	0.051
0.00	-0.125	0.016	0.026	0.077
0.25	0.125	0.096	0.157	0.234
0.50	0.375	0.529	0.866	1.100
0.75	0.625	1.993	3.261	4.361
1.00	0.875	10.398	17.014	21.375
1.25	1.125	14.321	23.434	44.809
1.50	1.375	15.059	24.641	69.450
1.75	1.625	10.032	16.415	85.866
2.00	1.875	5.309	8.687	94.553
2.25	2.125	2.368	3.875	98.428
2.50	2.375	0.699	1.144	99.571
2.75	2.625	0.193	0.316	99.887
3.00	2.875	0.041	0.067	99.954
3.25	3.125	0.013	0.021	99.975
3.50	3.375	0.006	0.010	99.985
3.75	3.625	0.002	0.003	99.989
4.00	3.875	0.002	0.003	99.992
5.00	4.500	0.000	0.000	99.992
5.00	4.50	0.005	0.008	100.000

Statistical Results			
Mean:	1.3256	phi	(0.399 mm)
Standard Dev:	0.4054	phi-units	(0.755 mm)
Skewness:	0.3048	dimensionless	
Kurtosis:	4.2096	dimensionless	
5th Moment:	1.7942	dimensionless	
6th Moment:	71.3234	dimensionless	
RARD *	0.3059	dimensionless	
Median	1.1777	phi	(0.4421 mm)

* RARD = reciprocal absolute relative dispersion (see below)

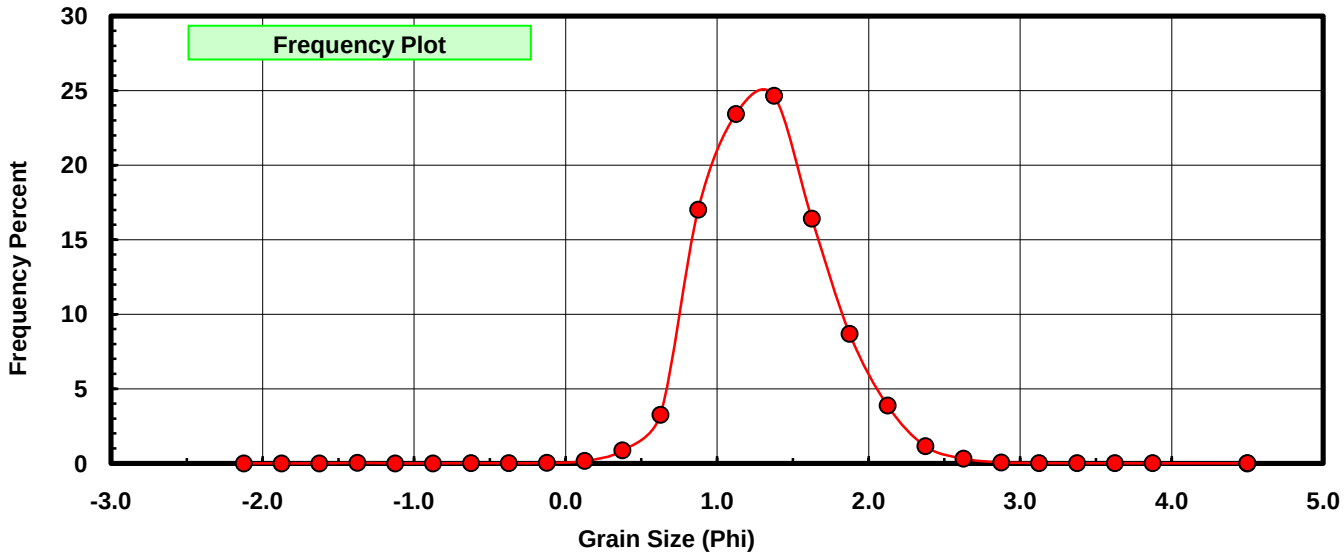
Statistical Explanation

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

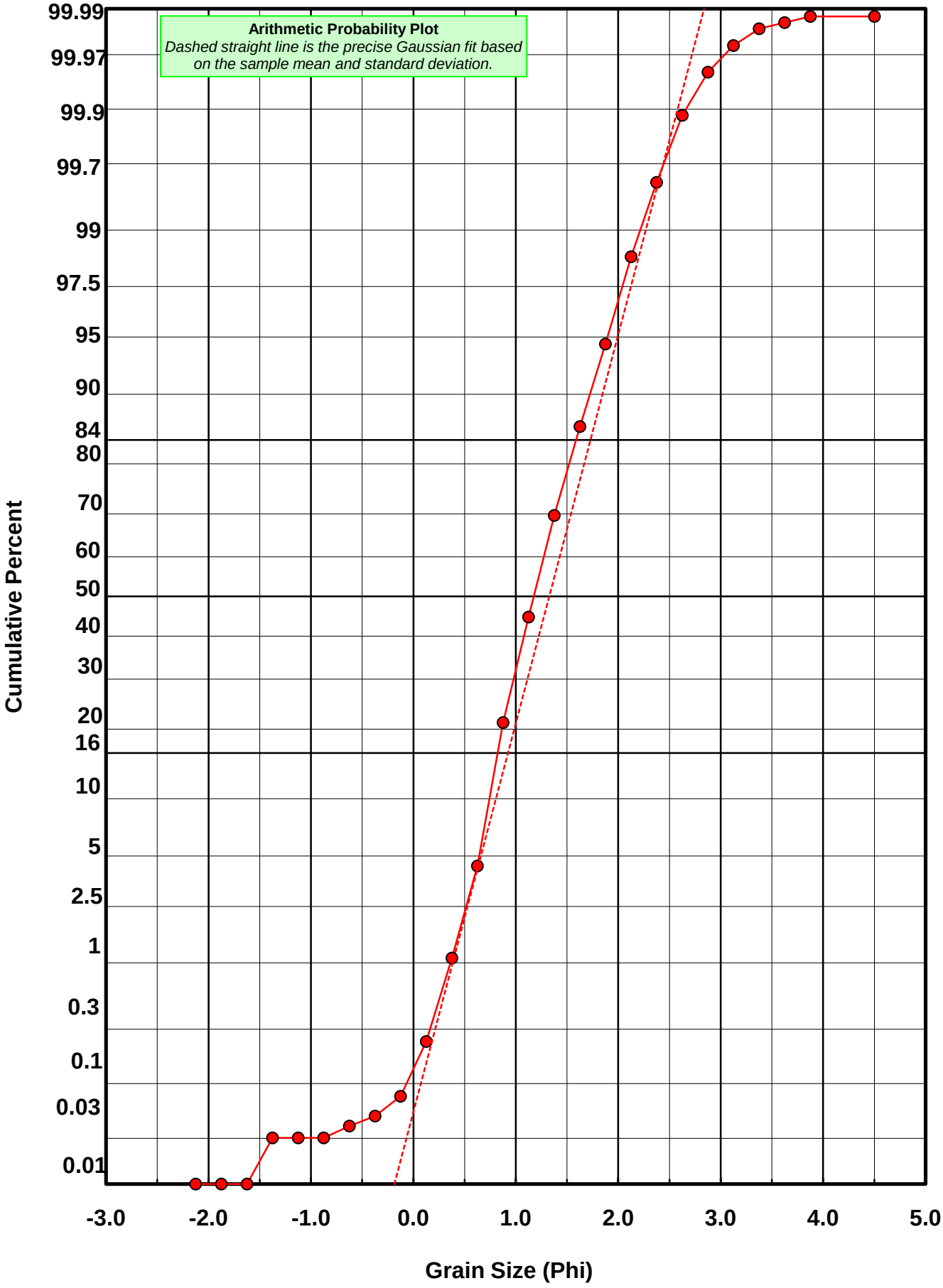
For Further Explanation, See Basillle et al. 2002

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-22-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)