

Appendix B (continued).

Table 34. F-statistics for mean ϕ , sorting σ , % carbonate, and % fine material, IRB98N1 vs. IRB98N2 sediment samples. Where F exceeds the critical F (alpha = 0.05), the variances of the distributions were assumed to be significantly different at 95% confidence. See Tables 18 and 20 for the comparison data.

	F-statistic	Critical F	Mean		Variance	
			IRB98N1	IRB98N2	IRB98N1	IRB98N2
Mean ϕ (sand ridge samples)	0.92977	0.55418	1.845	1.775	0.412	0.443
Sorting σ (sand ridge samples)	0.40897	0.55418	0.736	0.917	0.066	0.162
% Carbonate (sand ridge samples)	1.12533	1.80448	35.61%	38.39%	0.036	0.032
% Fines (sand ridge samples)	1.65634	1.80448	2.15%	2.48%	0.00005	0.00003

Table 35. Student-t statistics for mean ϕ , sorting σ , % carbonate, and % fine material, IRB98N1 vs. IRB98N2 sediment samples. Where the t-statistic was less than or equal to the critical t (alpha = 0.05), the means of the distributions being compared were assumed to differ by the quantity hypothesized at 95% confidence. See Tables 18 and 20 for the comparison data.

	Hypothesized Difference in Mean Value	Degrees of Freedom	t -Statistic	Critical t two-tail
Mean ϕ (sand ridge samples)	0.000 ϕ	64	0.43259	1.99773
Sorting σ (sand ridge samples)	0.000	64	2.18281	1.99773
Sorting σ (sand ridge samples)	0.0154	64	1.99777	1.99773
% Carbonate (sand ridge samples)	0.00 %	64	0.61102	1.99773
% Fines (sand ridge samples)	0.00 %	64	2.05320	1.99773
% Fines (sand ridge samples)	0.009 %	64	1.99773	1.99773