

Appendix C. (Continued)

Table 37. Correlation coefficients between mean gray scale, gray scale sorting, and all sediment property variables. Significant correlations are highlighted in gray. Significance tests were derived from Rohlf and Sokal (1981).

ALL SAMPLES	Mean Gray Scale	Gray Scale $\pm\sigma$
Mean Gray Scale	1	
Gray Scale $\pm\sigma$	0.78859	1
Mean ϕ	-0.53568	-0.68381
$\pm\sigma$ (ϕ)	0.30004	0.51642
% Carbonate	0.45488	0.37223
% Fines	0.07645	-0.04495
MS96M SAMPLES	Mean Gray Scale	Gray Scale $\pm\sigma$
Mean Gray Scale	1	
Gray Scale $\pm\sigma$	0.95133	1
Mean ϕ	-0.79232	-0.67127
$\pm\sigma$ (ϕ)	0.68850	0.53154
% Carbonate	0.87877	0.74309
% Fines	-0.24988	-0.22132
MS98JL SAMPLES	Mean Gray Scale	Gray Scale $\pm\sigma$
Mean Gray Scale	1	
Gray Scale $\pm\sigma$	0.93231	1
Mean ϕ	-0.82115	-0.80209
$\pm\sigma$ (ϕ)	0.24638	0.22610
% Carbonate	-0.10659	-0.08986
% Fines	-0.58559	-0.54722
ALL IRB SAMPLES	Mean Gray Scale	Gray Scale $\pm\sigma$
Mean Gray Scale	1	
Gray Scale $\pm\sigma$	0.70873	1
Mean ϕ	-0.47570	-0.66696
$\pm\sigma$ (ϕ)	0.43349	0.69132
% Carbonate	0.65178	0.57823
% Fines	0.25747	0.17834

$\alpha = 0.05$
 $n = 50$
 $v = n-2 = 48$
 $r_{.05,48} = 0.279$

$\alpha = 0.05$
 $n = 13$
 $v = n-2 = 11$
 $r_{.05,11} = 0.553$

$\alpha = 0.05$
 $n = 13$
 $v = n-2 = 11$
 $r_{.05,11} = 0.553$

$\alpha = 0.05$
 $n = 24$
 $v = n-2 = 22$
 $r_{.05,22} = 0.404$