

Supplementary Material

1.1 Supplementary Figures

Table 1 Number of Kemp's ridleys nests confirmed along the South Texas Gulf Coast from 2009-2012.

Year	North Padre Island	South Padre Island
2009	117	33
2010	74	28
2011	117	39
2012	106	59

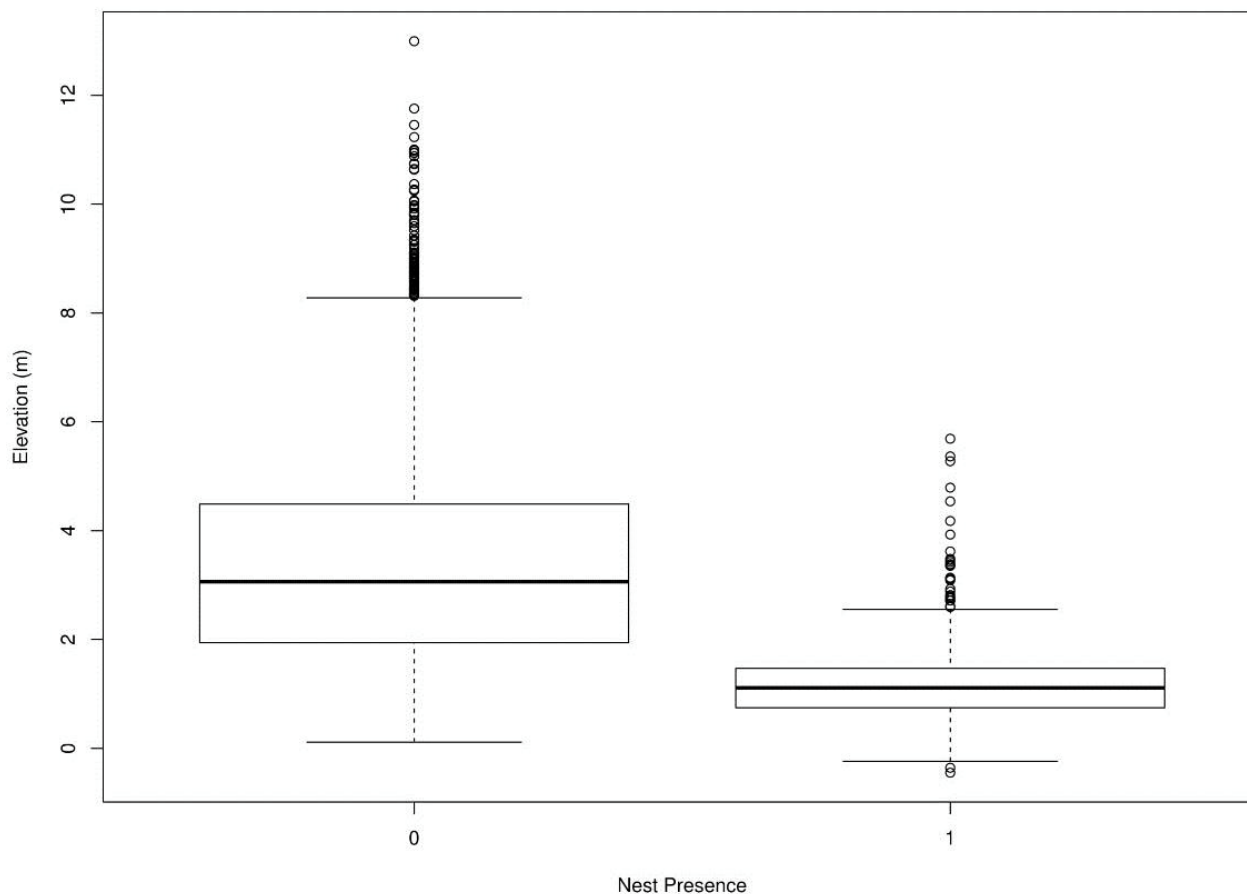


Figure 1 Boxplot of elevation (m) differentiated by background (0) and nest presence (1) data.

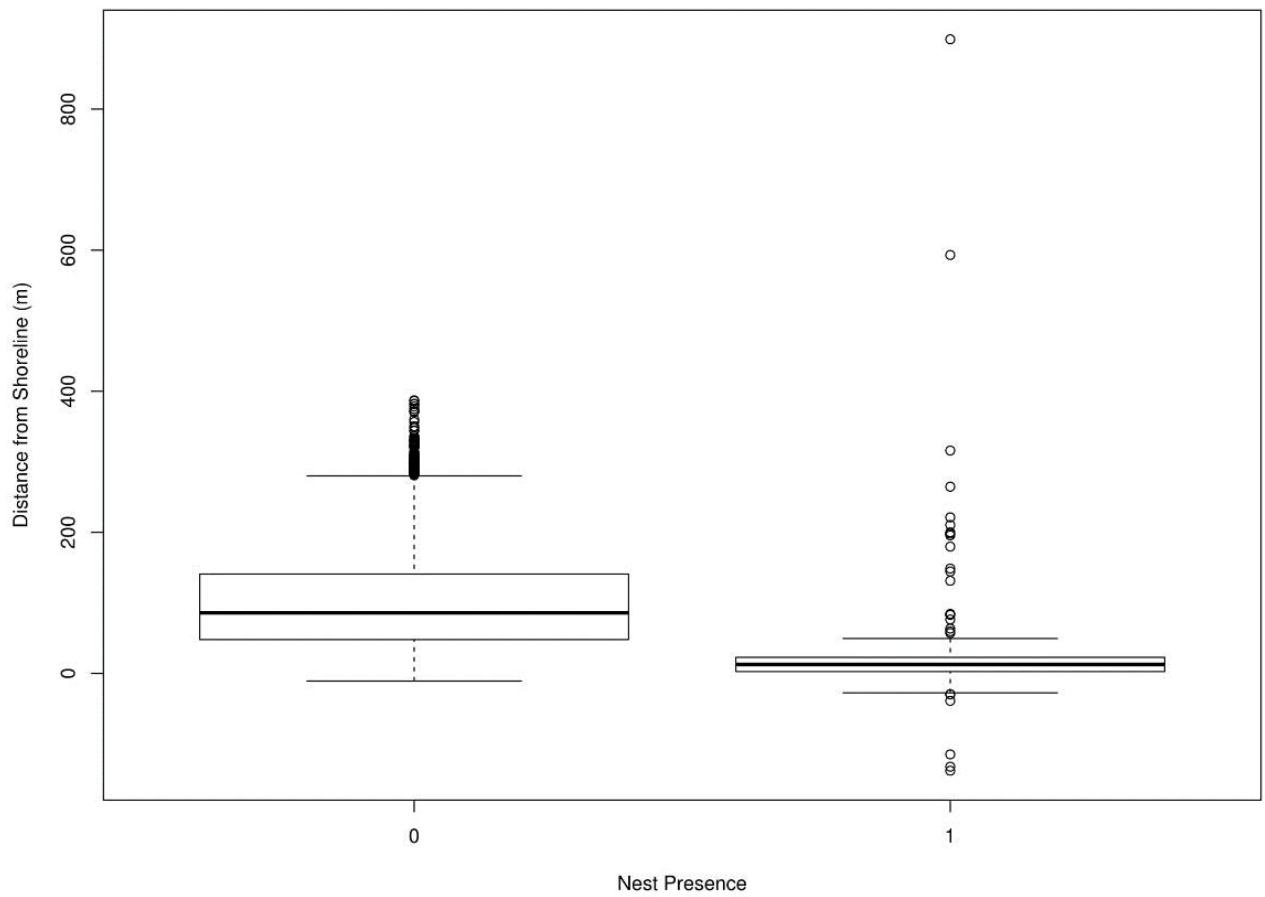


Figure 2 Boxplot of distance from shoreline (m) differentiated by background (0) and nest presence (1) data.

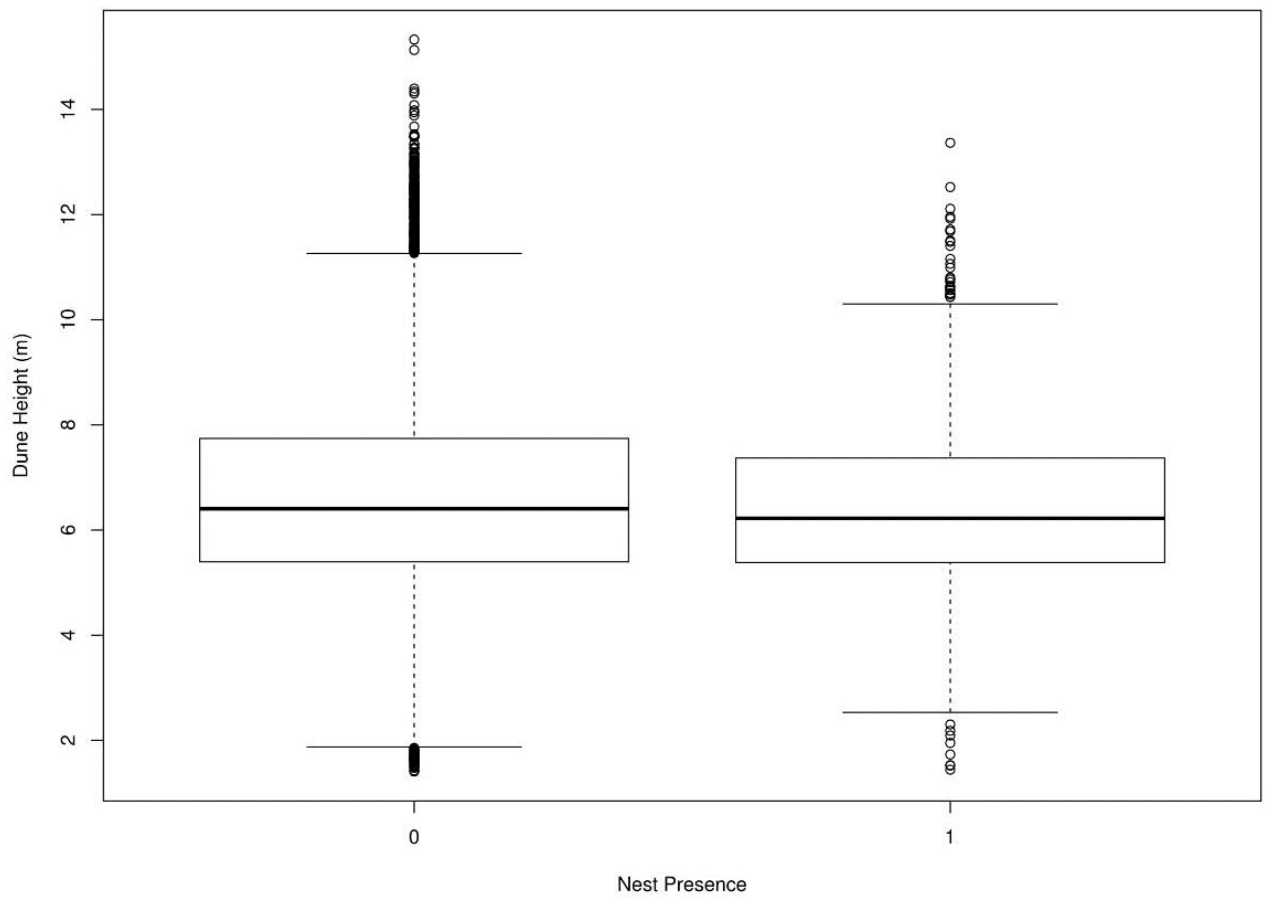


Figure 3 Boxplot of dune height (m) differentiated by background (0) and nest presence (1) data.

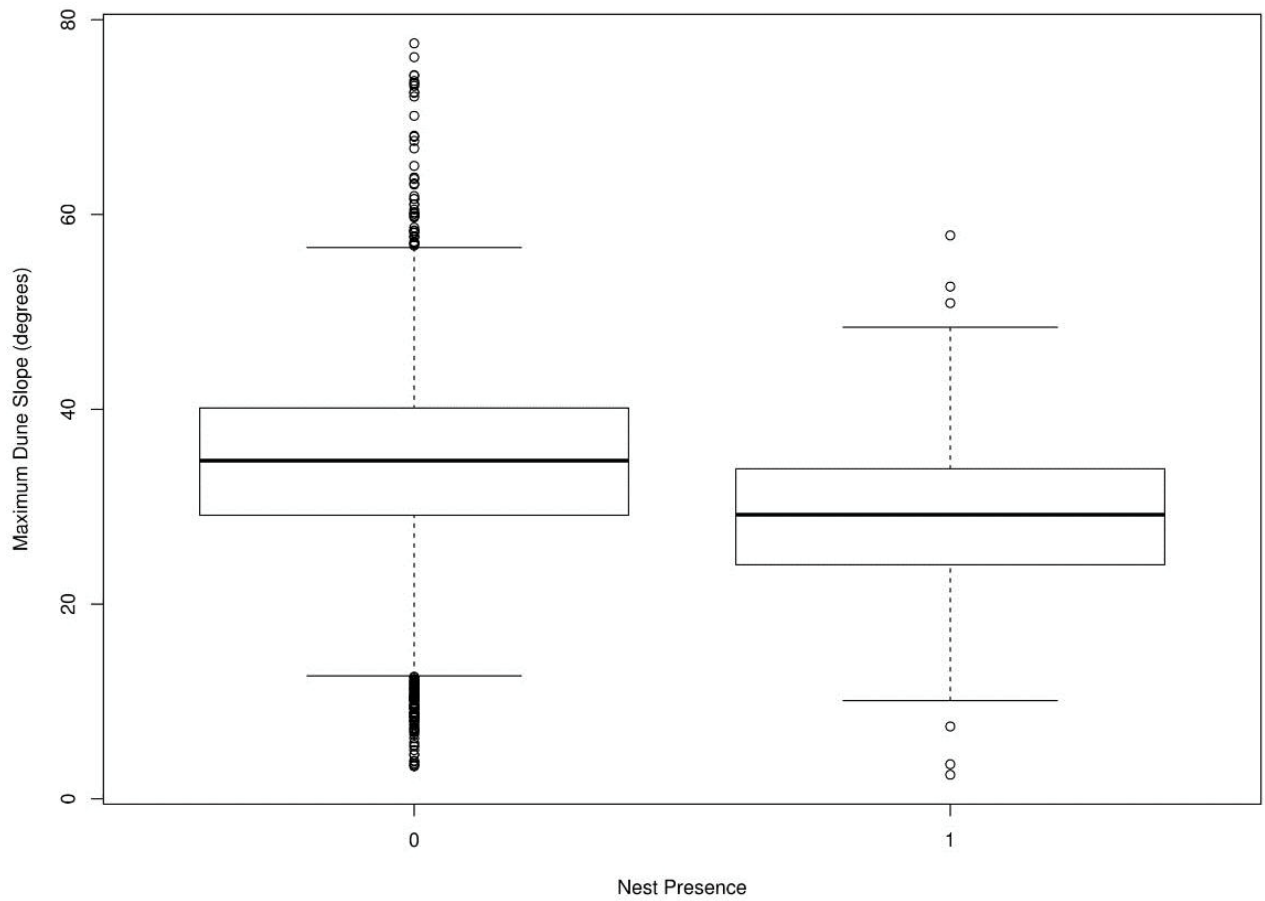


Figure 4 Boxplot of maximum dune slope (degrees) differentiated by background (0) and nest presence (1) data.

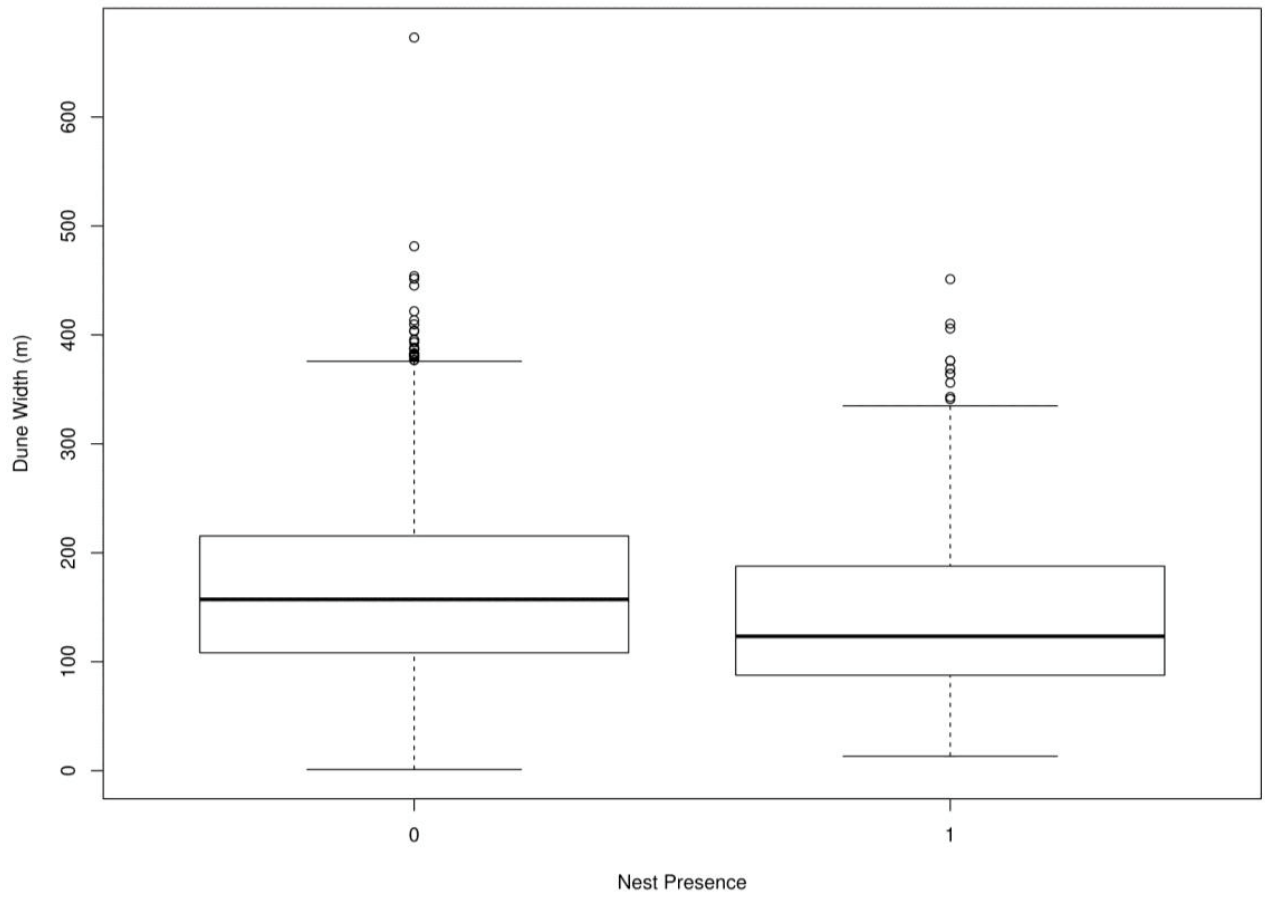


Figure 5 Boxplot of dune width (m) differentiated by background (0) and nest presence (1) data.

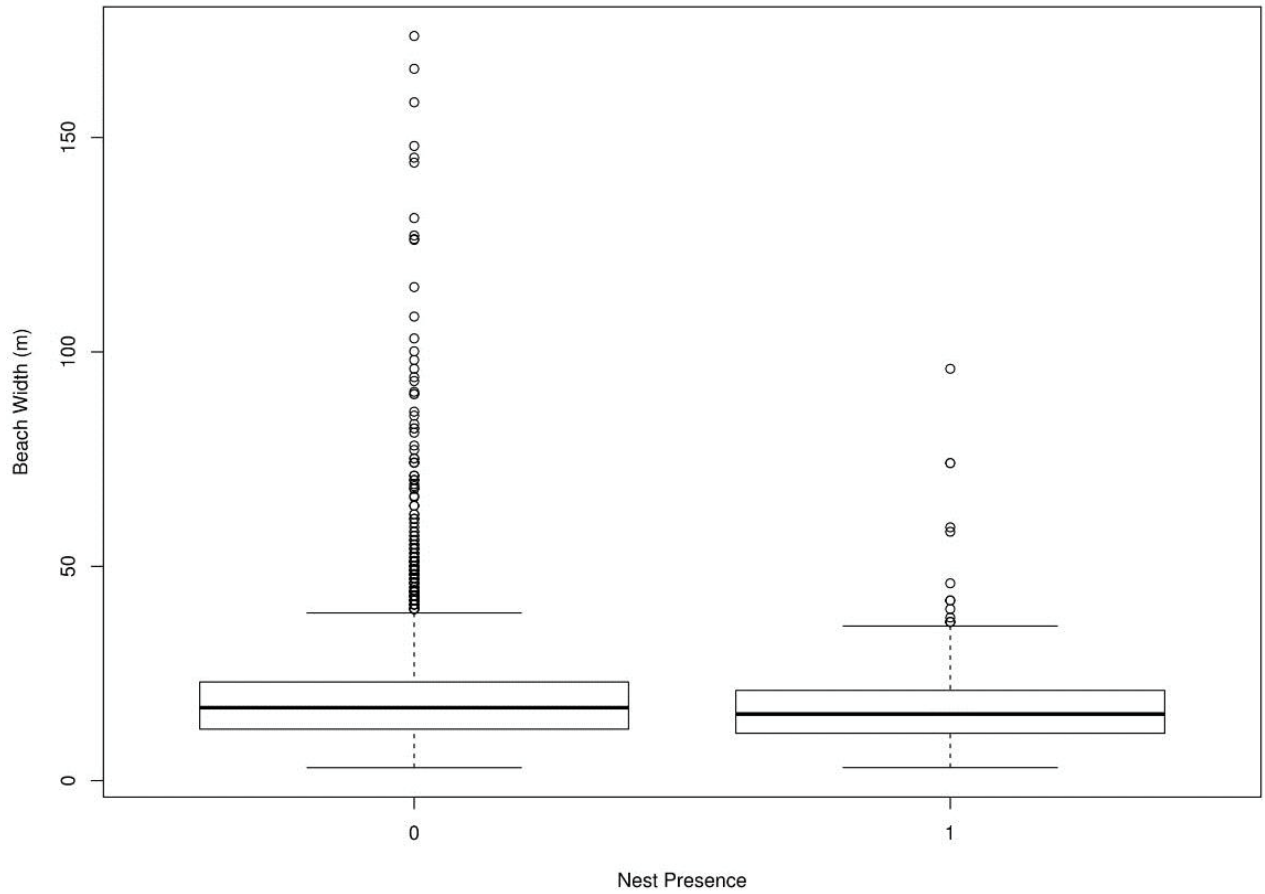


Figure 6 Boxplot of beach width (m) differentiated by background (0) and nest presence (1) data.

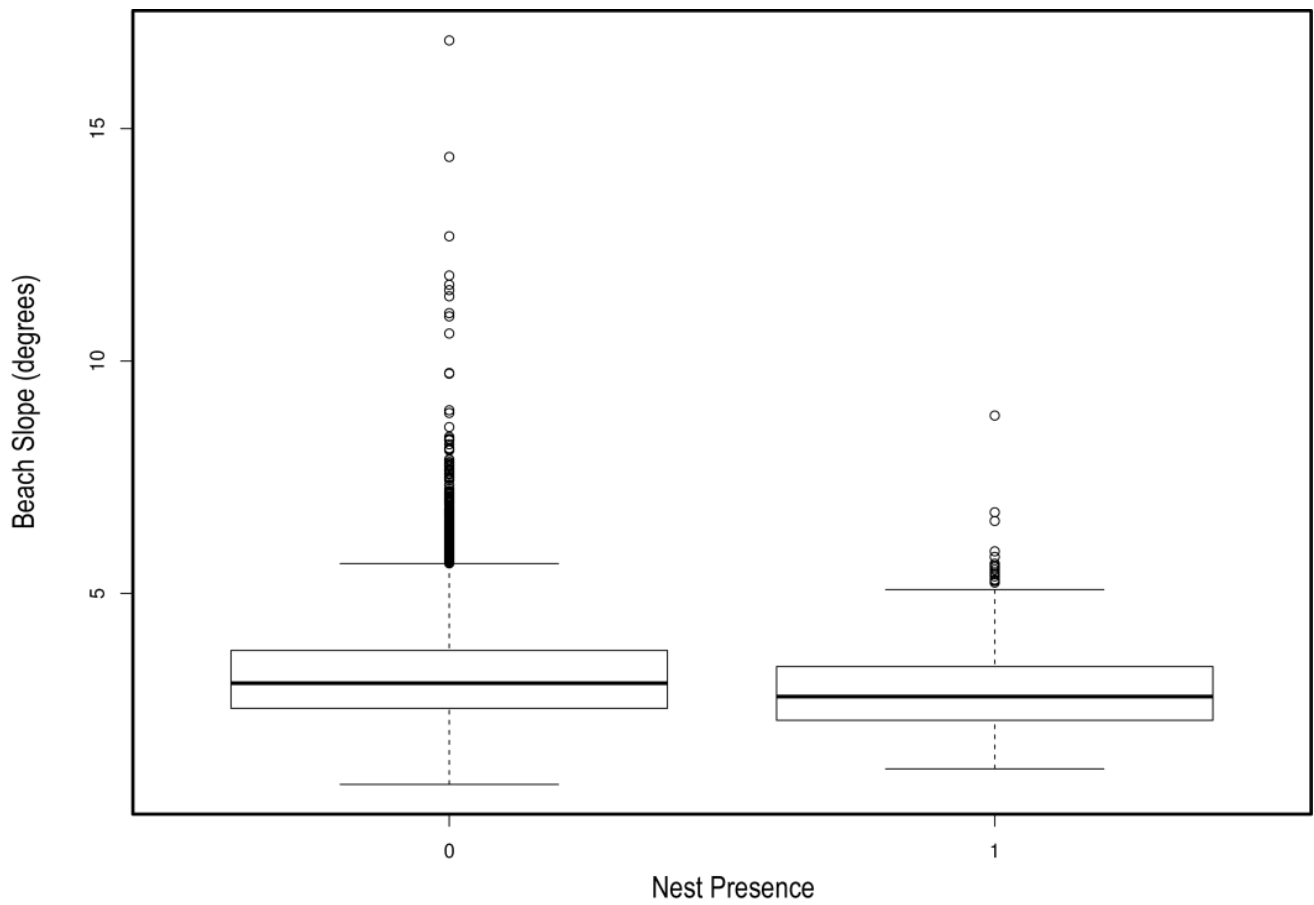


Figure 7 Boxplot of beach slope (degrees) differentiated by background (0) and nest presence (1) data.

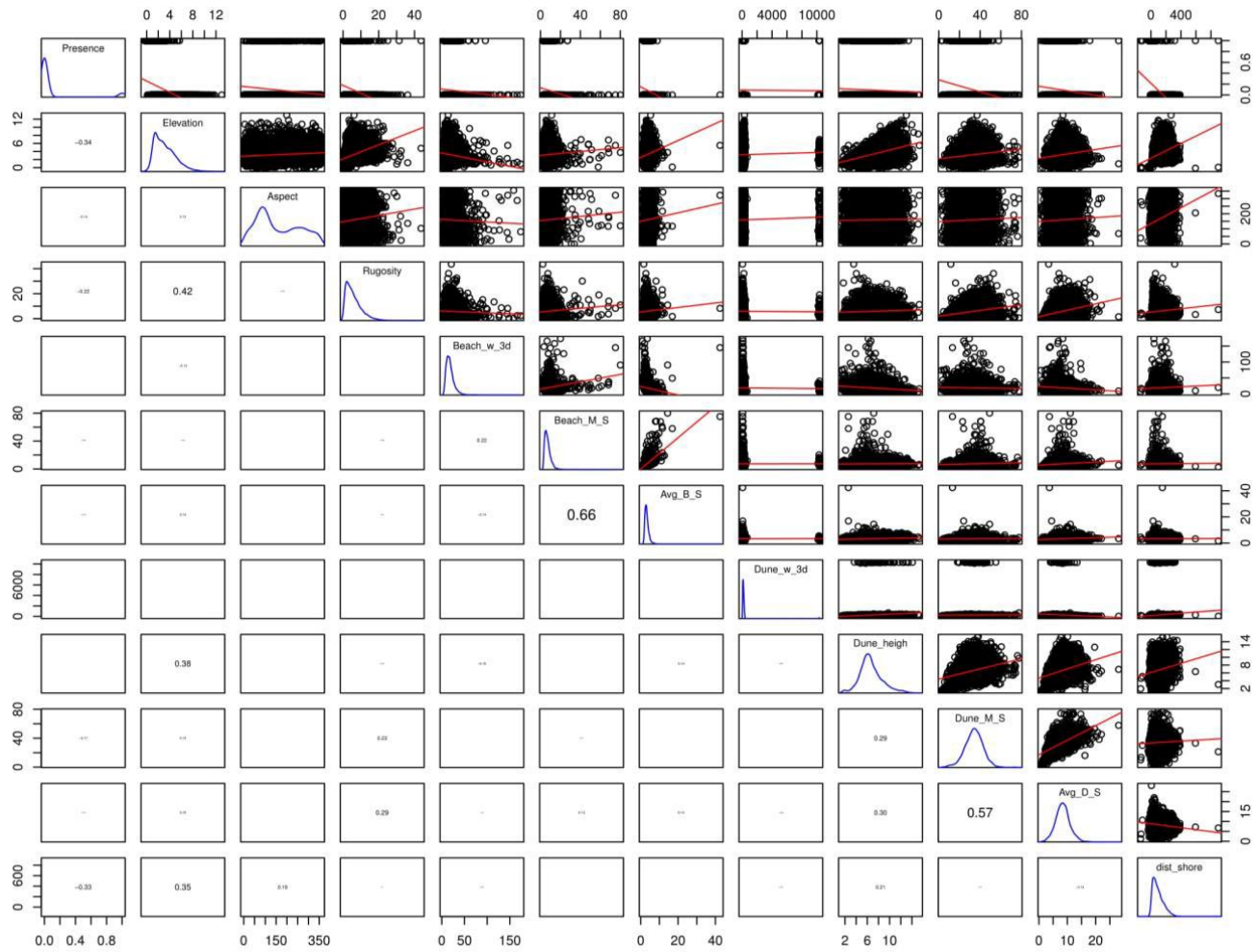


Figure 8 Correlation matrix showing pairwise scatterplots (upper right) and Pearson correlation coefficients (lower left) for each pair of geomorphic variables for all years combined.

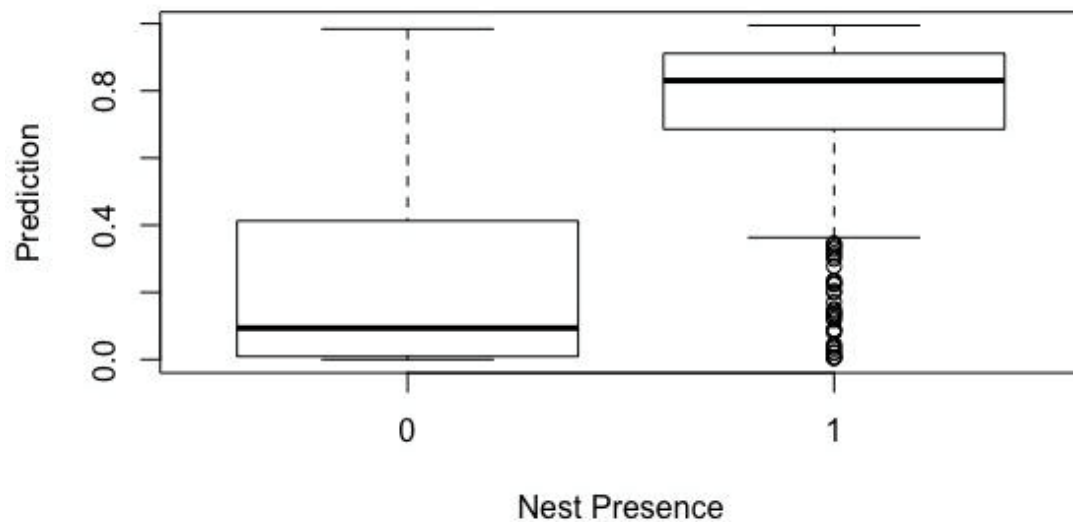


Figure 9 Boxplot of the predictions of Model 1 in Table 2 (of the manuscript) differentiated by nest presence.

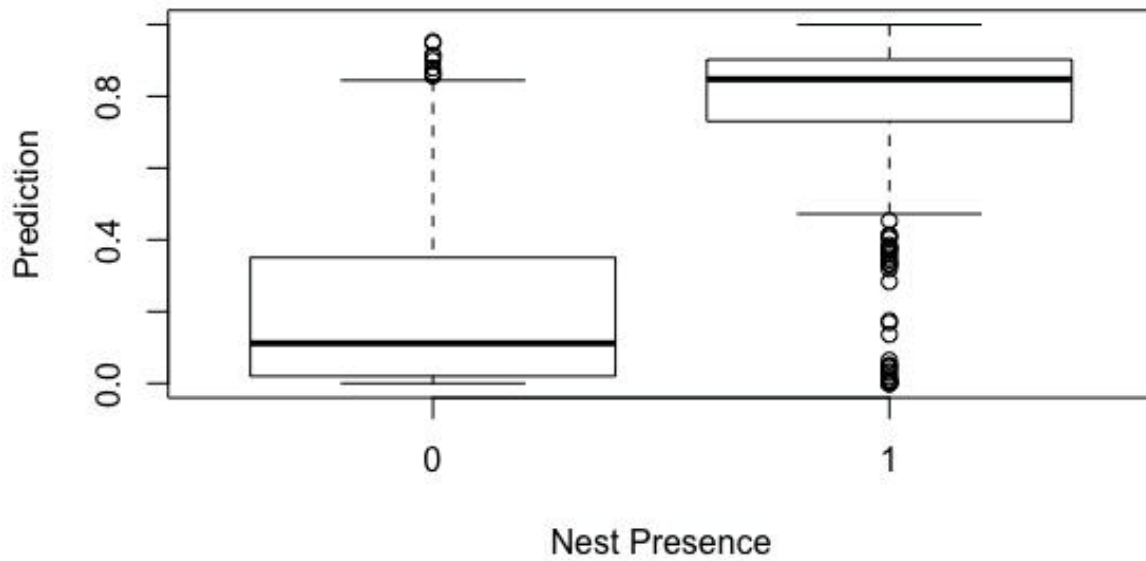


Figure 10 Boxplot of the predictions of the Model 2 in Table 2 differentiated by nest presence.

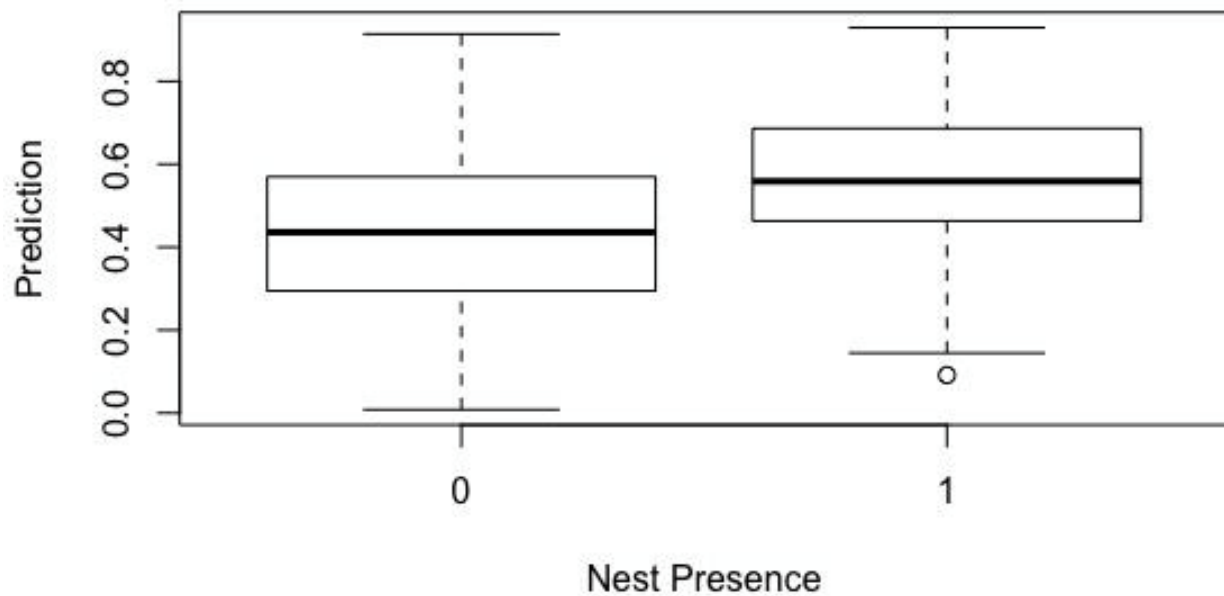


Figure 11 Boxplot of the predictions of the Model 3 in Table 2, which excludes elevation and distance from shoreline, differentiated by nest presence.

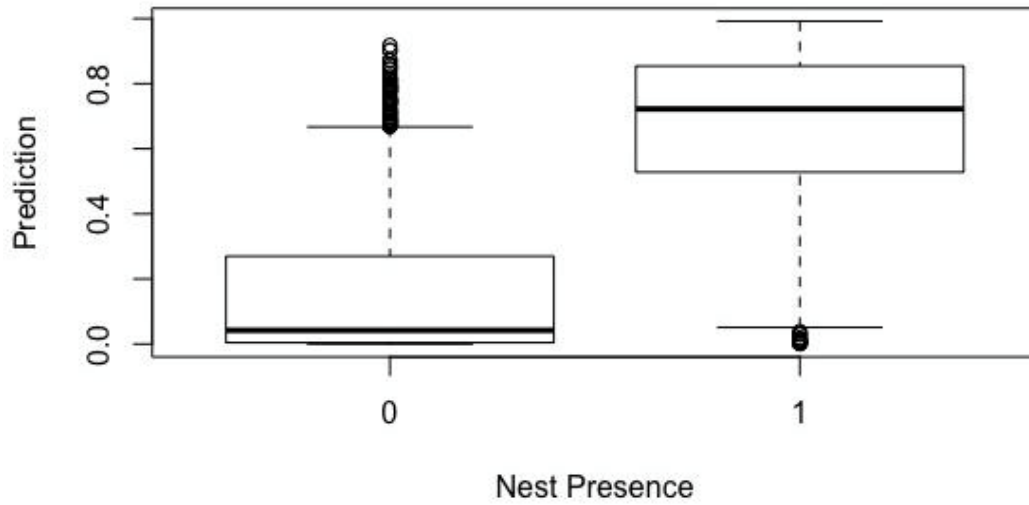


Figure 12 Boxplot of the predictions of Model 4 in Table 2, which was generated using a 2:1 ratio of background to presence points, differentiated by nest presence.

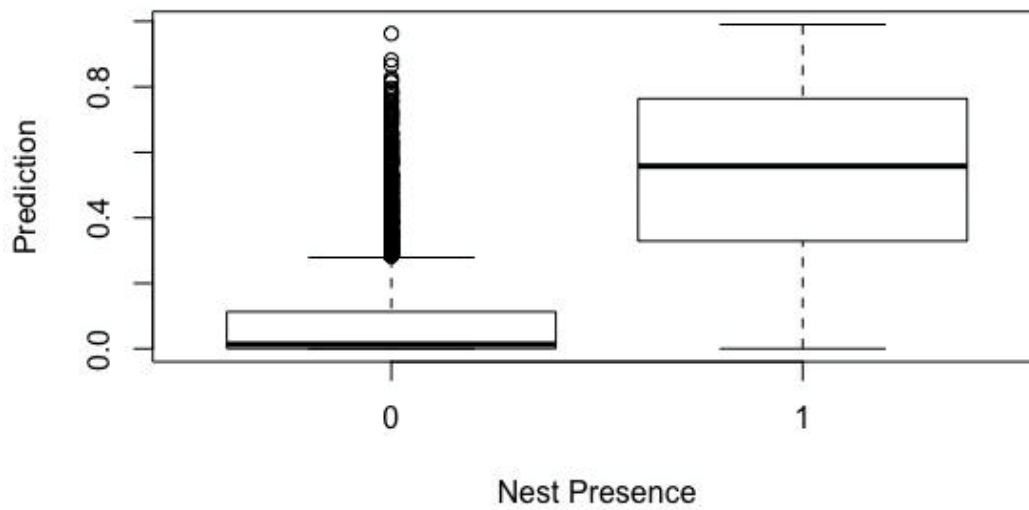


Figure 13 Boxplot of the predictions of Model 5 in Table 2, which was generated using a 5:1 ratio of background to presence points, differentiated by nest presence.

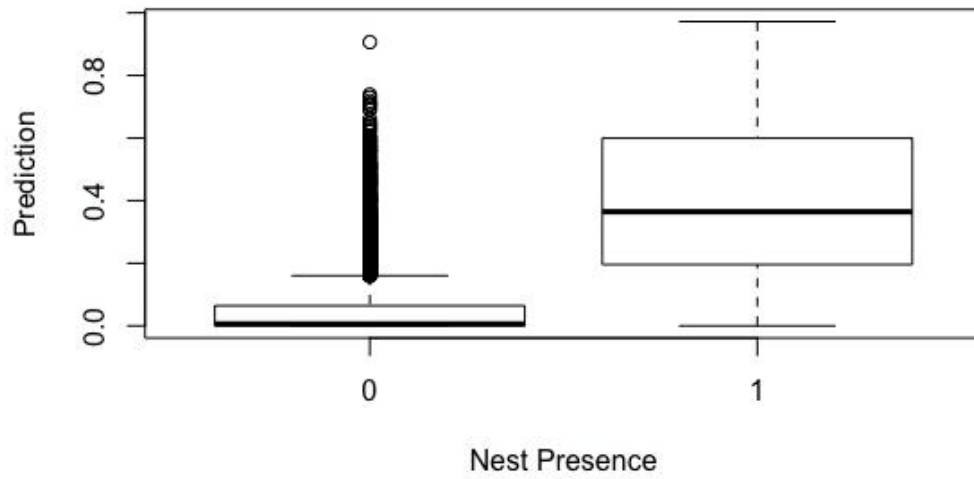


Figure 14 Boxplot of the predictions of Model 6 in Table 2, which was generated using a 10:1 ratio of background to presence points, differentiated by nest presence.

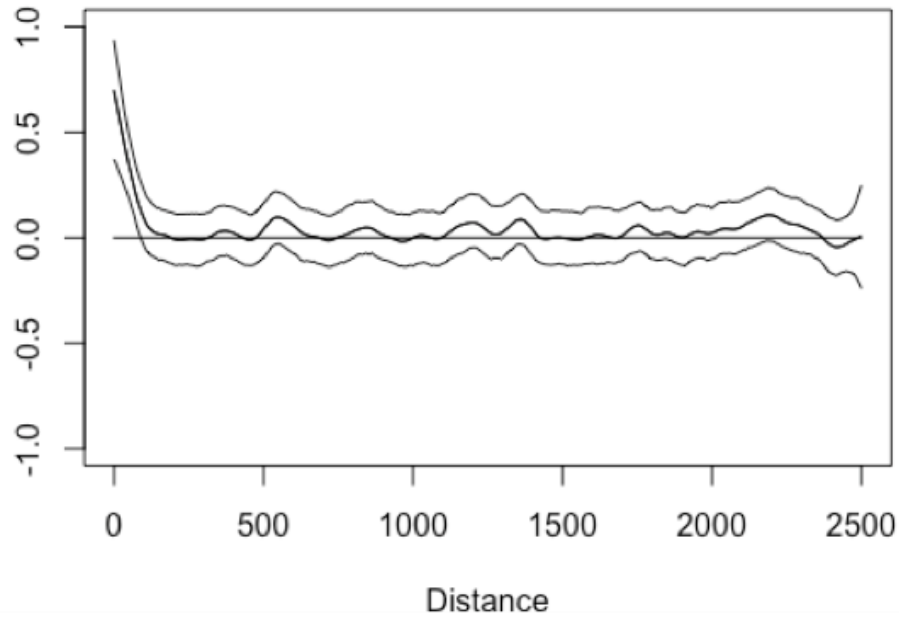


Figure 15 Spline correlogram of the raw data with 95% pointwise bootstrap confidence intervals.

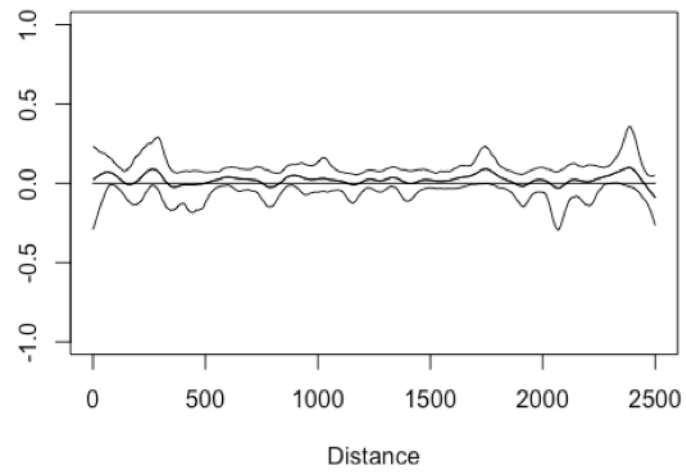


Figure 16 Spline correlogram of the residuals of the GLM with 95% pointwise bootstrap confidence intervals.