Figure 2-1: Location of the vegetation mapping sites within Shark Slough, Everglades National Park. See Table 2-1 for site coordinates.
Vector Calculation Equations

\[ \alpha = \text{Arccsin} \frac{b}{c} \]
\[ \beta = 270 - \alpha \]

Figure 2-2: Sample schematic showing angle calculation procedure used to calculate the longest axis vector for all landscape features mapped.
Figure 2-3. Mean and minimum and maximum (whiskers) elongation ratio \( (R_e) \) for four common geometric shapes of different size. \( N = 15 \) for each shape.
Figure 2-4: 2001 map of the landscape features within 0.4 km of a point (542652, 2836955; UTM17) located near Grossman Hammock in Northeast Shark Slough, Everglades National Park.
Figure 2-5: 2001 map of the landscape features within 1km of water level recorder NE-1 (536632, 2841587; UTM 17) in Everglades National Park.
Figure 2-6: 2001 map of landscape features within 1km of the water level recorder NE-2 (544364, 2844716; UTM17) in Everglades National Park.
Figure 2-7: 2001 map of the landscape features within 0.7 km of the water level recorder NP-202 (529205, 2838399; UTM17) in Everglades National Park.
Figure 2-8: 2001 map of the landscape features within 0.6 km of the water level recorder NP-203 (526199, 2834057; UTM17) in Everglades National Park.
Figure 2-9: 2001 map of the landscape features within 0.7 km of the water level recorder P-33 (529867, 2833061; UTM17) in Everglades National Park.
Figure 2-10: 2001 map of the landscape features within 1 km of the water level recorder P-36 (520545, 2823476; UTM17) in Everglades National Park.
Figure 2-11: 2001 map of landscape features within 1km of the water level recorder SH1 (515258, 2817264; UTM17) in Everglades National Park.
Figure 2-12: 2001 map of landscape features within 0.7 km of the water level recorder NP-205 (515231, 2841308; UMT17) in Everglades National Park.
Figure 2-13: 2001 map of the landscape features within 1 km of the water lever recorder OT (503546, 2829111; UTM17) in Everglades National Park.
Figure 2-14: 2001 map of landscape features within 1km of water level recorder P-34 (505922, 2832347; UTM17) in Everglades National Park.
Figure 2-15: 2001 map of the landscape features within 1 km of the water level recorder P-38 (516734, 2806004; UTM17) in Everglades National Park.
Figure 2-16. Regional differences in mean, minimum, and maximum patch density (A) and mean (±1 SE) patch size (B) across Shark Slough. Regions with same superscript do not differ at $p > 0.05$ (Kruskal-Wallis test).
Figure 2-17. Frequency distribution of patch size across Shark Slough. Complex units not included in this analysis. See text for complex unit description.
Figure 2-18: Grouped cover class percentages at each of the twelve mapping sites in Shark River Slough, ENP.
Figure 2-19. Frequency distribution of longest vector length (LVL) for complex and simple units in Shark Slough.
Figure 2-20. Frequency distribution of mean landscape feature orientation for the twelve vegetation mapping sites in Shark Slough. See Figure 2-1 for site locations.
Figure 2-21. Frequency distribution of regional landscape orientation. Regions with same subscript do not differ at $p > 0.05$ (Watson-Williams $F$-test).
Figure 2-22: Mean landscape feature orientation with respect to soil surface topography. Elevation data adapted from USGS helicopter/gps survey (USGS Fact Sheet 021-03). Pixel size 400 x 400 m.
Figure 2-23. Frequency distribution of landscape orientation at each of the twelve mapping sites in Shark Slough.
Figure 2-24. Mean angle concentration (± 1 SE) for sites in lower portions of Shark Slough (Group 1), sites in semi-impounded, water deprived NESS (Group 2), and sites in regions peripheral to Shark Slough (Group 3). See methods section for list of sites.
Figure 2.25. Frequency distribution of elongation ratios ($R_e$) for landscape features (complex and simple) in Shark Slough.
Figure 2-26. Regional differences in the elongation ratio of landscape features in Shark Slough. Sites with same subscript do not differ at $p > 0.05$ (Kruskal-Wallis test).
Figure 2-27. The covariance of angle concentration and mean elongation ratio for sites in the lower portion of Shark Slough, sites in semi-impounded, water deprived NESS, and sites in regions peripheral to Shark Slough.
Figure 2-28. Mean elongation ratios (± 1 SE) of patch types in Shark Slough.