Introduction
The structure and function of coastal salt marshes develops from a complex interaction of biologic, geomorphic, anthropogenic, and climatic variables that influence the characteristics of marsh vegetation (Adam 1990). Few studies have investigated the effects of increased inundation of salt marsh vegetation due to storm events to investigate how the marsh vegetation has changed. My thesis investigates the changing vegetation dynamics of the Galveston Bay salt marshes by collecting floristic data, modeling inundation, and performing change detection on Landsat 5 images to determine how the composition and distribution of vegetation may be changing as a result of climatic influences over a 30 year period. This poster illustrates the floristic analysis portion of my research.

Study Site
Galveston Bay Salt Marsh Study Site

Research Question
What underlying physical processes influence the composition and distribution of marsh vegetation?

Test statistic: $T = -57.554896$
Chance-corrected within-group agreement, $\Lambda = 0.47771249$
Probability of a smaller or equal delta, $p < 0.001$