

Jacqueline Chapman
Geography 342 Final Project Abstract

The Clearwater Beach area in Florida is subject to loss of land within beaches, sand keys, and small islands that help slow inner land erosion. To monitor these changes, I will be comparing Landsat imagery from 2013 and 2021 to show years of change. This will be done by using a simple band ratio within ArcGIS Pro.

Global warming has caused sea levels to rise at a steady pace and coupled with turbulent storms and water flow, the area of Clearwater Beach has undergone loss of land in its sand keys, beaches, and small islands. Sand keys and small islands help protect erosion from land within its barriers as beaches provide nesting areas for sea turtles and protection from erosion of property owned by citizens and government. Monitoring where changes and loss are occurring can help slow the loss of land.