Final Project

4/26/2021

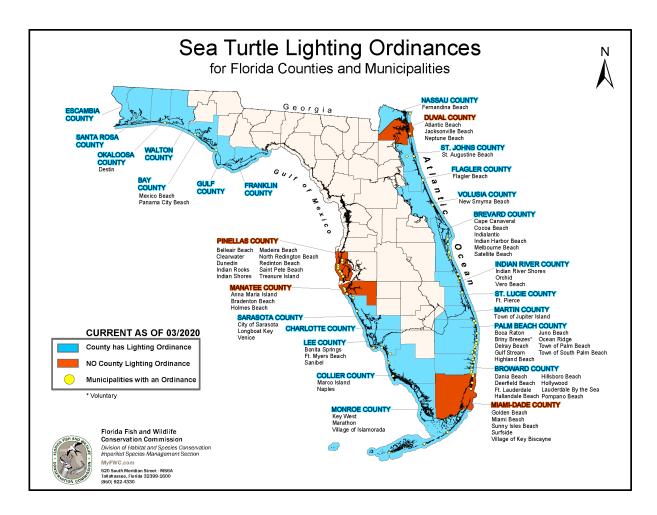
Rationale & Research Questions

Primary Research Question: Is there a relationship between sea turtle protection policies (light pollution ordinances) in Florida [cities? Counties?] and the amount of radiance those [cities? Counties?] output?

Additional Research Questions

- How does radiance change before these light ordinances go into effect and after? I.e. how does radiance change with time?
- How does average radiance over time vary across cities/counties?

Rationale The state of Florida provided model lighting ordinance for local governments to develop their own light pollution policies largely to control beachfront lighting to protect hatching sea turtles. Policy implementation is important, but the radiance data can show if the policy has affected the amount of radiance in these Florida counties/municipalities. The amount or change in radiance, perhaps as a result of implementing the policy, is what will impact sea turtle protection.



Rationale for Data

- The [GoogleMaps] dataset was chosen because it allows...
- The counties/municipalities for this project were chosen based on their Seat Turtle Protection Ordinance adoption date. Making sure that the dates are covered by the [GoogleMaps] light radiance dataset
- The radiance data covers from 1994-2011

Dataset Information

Data Wrangling

Time Series Analysis

Generalized Linear Modeling

Spatial Analysis

Summary & Conclusions

Analysis Summary

Conclusions