Intermediate Project Report

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Introduction

Our project’s goal is to develop a web application in Shiny, leaflet, and R. This is being made in conjunction with Dr. Byrnes and uses his data gathered regarding his research in marine biology. The goal is to create a user interactive way to view the expansive dataset that may lead to new insights on data interpretation. The primary window will be a map displaying the location the data points were taken, and potentially a heat map and allow the user to choose what what parameters create the heat densities. There will also be an optional secondary window that will graph the data as either, points, lines, bar, etc based on what points the user has selected in the map window.

Current Progress

We have an application up and running. It currently displays the location of all of the points from Dr. Byrnes data and colors them based on his calculated slope. The darker blue indicating a greater slope, and darker red indicating the converse.