Prioritizing potential aquaculture

Aakriti Poudel

2025-11-13

Table of contents

Screenshot of GitHub README.md

(place holder)

Load required libraries

```
library(tidyverse)
library(sf)
library(tmap)
library(terra)
library(stars)
```

Read data

```
# Read sea surface temperature data
sst_2008 <- read_stars(here::here('data', 'average_annual_sst_2008.tif'))
sst_2009 <- read_stars(here::here('data', 'average_annual_sst_2009.tif'))
sst_2010 <- read_stars(here::here('data', 'average_annual_sst_2010.tif'))
sst_2011 <- read_stars(here::here('data', 'average_annual_sst_2011.tif'))
```

```r
sst_2012 <- read_stars(here::here('data', 'average_annual_sst_2012.tif'))

# Read Bathymetry data
depth <- read_stars(here::here('data', 'depth.tif'))

# Read Exclusive Economic Zones data
eec <- st_read(here::here('data', 'wc_regions_clean.shp'))
```

```
Reading layer `wc_regions_clean' from data source
  `/Users/aakriti/Documents/MEDS/EDS 223/Homework Assignment/prioritizing-potential-aquacultu
  using driver `ESRI Shapefile'
Simple feature collection with 5 features and 5 fields
Geometry type: MULTIPOLYGON
Dimension:     XY
Bounding box:  xmin: -129.1635 ymin: 30.542 xmax: -117.097 ymax: 49.00031
Geodetic CRS:  WGS 84
```