ESM 270 Ocean Health Index Lab

Introduction

The Ocean Health Index [intro here]

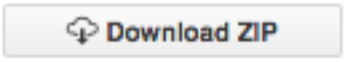
Intro to WebApps concept and overview of lab exercise - study areas and regions

Instructions

You access an existing WebApp and modify it locally on your computer to complete the assignment. You will need to install R (and preferably RStudio) to complete the assignment.

Setup steps:

1. Create a folder called `**ESM_270**` in your home directory so that the R scripts will run smoothly. This folder will have the following filepath:
    - **Windows**: `Users\[User]\Documents\ESM_270\`
    - **Mac**: `Users/[User]/ESM_270/`
2. **R**: Download and install the current version of R from cran.r-project.org.
3. **RStudio**: Download and install the current version of RStudio from rstudio.com.
4. Choose a coastal country or territory that has a WebApp using the list available at ohi-science.org/subcountry. The WebApp you choose must have a green `build | passing` indicator associated with its study area.
    - click the three-letter code (`xxx`) in the '*Repo*' column to explore the WebApp of that study area.
    - click the date in the '*Last Mod*' column to explore the GitHub repository of that study area.
5. Click the '*Download ZIP*' button on the main page of the repository (github.com/OHI-Science/`xxx`)

    - NOTE: do not choose CHN, as it is under development.
6. Unzip the downloaded ** *.zip* ** folder and save in your `ESM_270` folder, without changing the name.
7. Open **RStudio** follow the instructions below. Note that anything following the `#` symbol in R is a comment and will not be executed.

```
# 1. in your R Console, type the following, replacing 'xxx' with your 3-letter code:
key = 'xxx'


# 2. paste the following into your console:

setwd(sprintf('~/ESM_270/%s-draft/subcountry2014', key))

summary(cars)
```

You can also embed plots, for example:

```
{r, echo=FALSE} plot(cars)
```

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.