# Instructions for running R scripts for the "Hawai'i Pelagic Fisheries Market Analysis":

1. Open the R Project file called “**Pelagic market analysis R.R proj**”.
   1. On the H drive, it is located here:

[*H:\Projects\Ongoing\Emily projects\MarketAnalysisReport\Hawaii market analysis\Revised Pelagic market analysis\Pelagic market analysis R*](file:///H:\Projects\Ongoing\Emily%20projects\MarketAnalysisReport\Hawaii%20market%20analysis\Revised%20Pelagic%20market%20analysis\Pelagic%20market%20analysis%20R) *UPDATED DATA, cleaned code*

1. Navigate to the *Rscripts* folder in R Studio. The contents are as follows:
   1. ***Rscripts* folder:** There are 6 .R files in the *Rscripts* folder. They generate the calculations, tables, and figures shown and used in the report.
      1. "OverviewSections.R", "BigeyeProfile.R", "YellowfinProfile.R", and "SwordfishProfile.R" generate the tables and figures for the manuscript, named according to the section they correspond to.
      2. The files "alltunas\_consumptiontrends.R" and "hipelagicmarketshare.R" generate statistics used in the executive summary, introduction, and/or discussion sections of the report.
      3. Each of these scripts can be run independently of one another. They each source the needed functions and additional scripts to complete calculations and resulting outputs.
      4. Each .R script is divided into sections by figure or table, and labelled with the caption and figure/table number from the manuscript.
      5. First run the first 25 lines of code in a script in order to correctly set up objects and calculations used for a figure or table.
      6. All output will save as designated in the code.
         1. Please note: the output files overwrite one another for the ConsumptionTrends.R script.
   2. ***SourceFiles*****folder**: You do not need to run these scripts; the 6 .R files in the *Rscripts* folder will source and run them when they are needed.
   3. ***HI Contributions*** **folder**: The 3 .R scripts saved here generate the calculations of Hawai'i's contribution to US seafood supply used throughout the manuscript text.
      1. They do not need to be run, and can be run independently of the remainder of the scripts described in this README doc.
      2. Also included are the raw data input files used and cleaned output tables generated by these scripts.
2. Additional folders include the following:
   1. ***Data* folder:** Stores the data input files used and data output files generated by the .R scripts in the *Rscripts* folder.
      1. ***2008-2019 data* folder:** Contains the raw data files, .R scripts to clean the data, and cleaned data output files for the data sources used in *Rscripts* and *SourceFiles* .R scripts.
         1. These scripts can be used to clean raw datasets that are queried per the instructions in Appendix B of the "Hawai'i Pelagic Fisheries Market Analysis" manuscript.
      2. ***intermediate* folder**: Stores objects generated by several *SourceFiles* .R scripts that are used in the *Rscripts* .R scripts. They automatically run within the *Rscripts* and *SourceFiles* .R scripts when called.
         1. Also contains "USdat.csv" and "USLanddat.csv", which are .csv files of the USdat and USLanddat object created in "Installations.R", because the objects are too large to view in R Studio.
      3. ***source* folder:** Stores data input files and copies of the cleaned *2008-2019 data* data input files used by the *Rscripts* and *SourceFiles* .R scripts.
      4. **"codebook.xlsx"**: Excel file that describes column names in the cleaned data files used in the *Rscripts* and *SourceFiles* .R scripts.
   2. ***Figures* folder:** Stores the output figures generated by the *Rscripts* and *SourceFiles* .R scripts.
   3. ***Tables* folder:**Stores the output tables generated by the *Rscripts* and *SourceFiles* .R scripts.