Fisheries Review and Assessment

Lab 7

March 17, 2022

Using what we have learned so far about popular methods for generating stock assessments, pick a known fishery to review and assess. Create a report that evaluates important metrics for the stock (e.g., CPUE, catches, landings, initial parameters, length-at-age, weight-at-age, YPR, etc…) and project them on a temporal scale to theoretically help managers decide how to manage the stock. Create plots, infographs, and any other visual representation of the data that you think might be helpful in better understanding the fishery's status.

Assignment: Turn in a pdf (knitted from RMarkdown would be easiest) of your assessment

Use whatever data source you like for the fishery you are interested in (use multiple data sources if one does not provide enough information). Here are some data sources to help you get started.

GBIF (Global Biodiversity Information Facility) – spatial / observations

rfishbase (FishBase) and rfisheries (Open Fisheries)

FSA (Fisheries Stock Assessment)

Global Fishing Watch

NOAA (National Oceanic and Atmospheric Administration)

IUCN (International Union for Conservation of Nature) – spatial / observations

FLR (Fisheries Library in R)

Open MSE (Open Management Strategy Evaluation)

Data-rich species:

Bluefin Tuna Yellowfin Tuna Sole Shrimp Herring