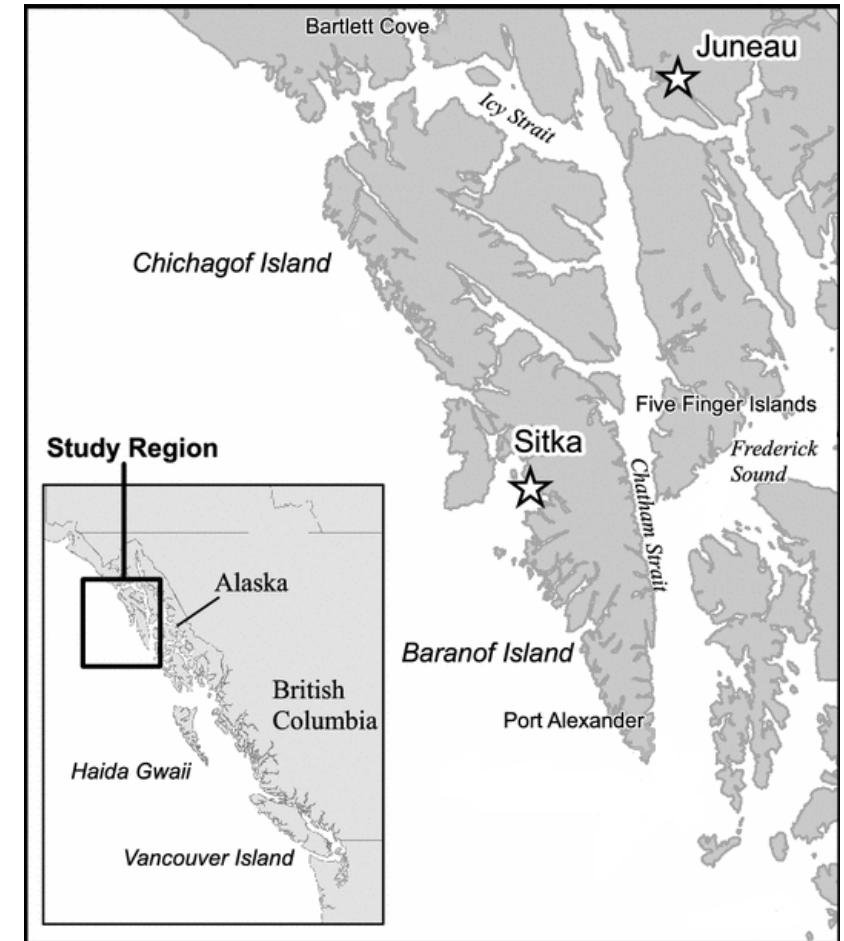




Age-structured model in TMB for Chatham Strait sablefish

Jane Sullivan, Ben Williams, Andrew Olson



History of management

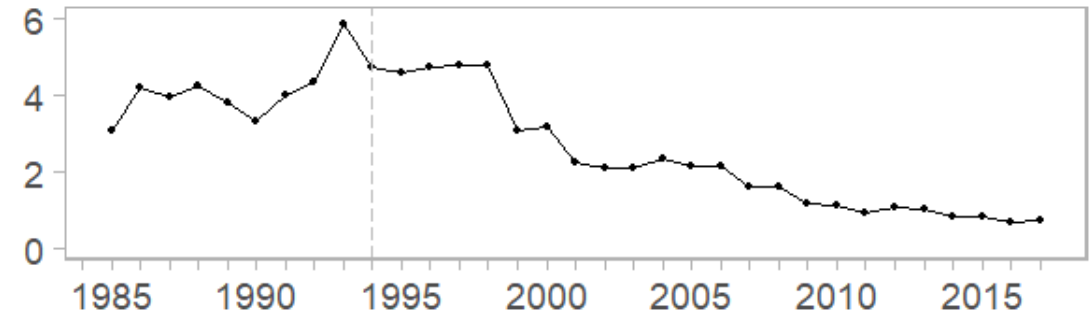
- Annual mark-recapture study
- Yield per recruit model
- Previous attempts at age-structured models

Data sources

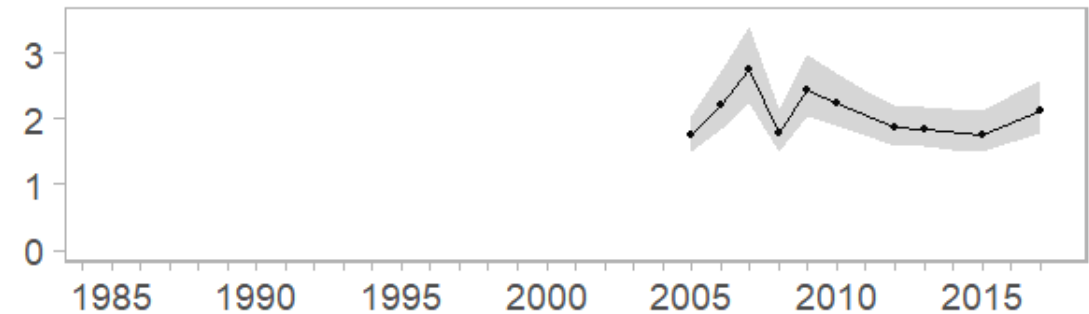
- Catch
- Mark-recapture abundance estimates
- CPUE: Longline survey, pot survey, fishery
- Age and length compositions
- Weight-at-age
- Maturity



Fishery harvest (millions lbs)



Number of sablefish (millions)



Motivation and Objectives

- Better utilize available data sources
- Estimate selectivity
 - Currently assume Federal values
- Estimate recruitment
 - Random effects vs. recruitment deviations
 - Large recruitment event in 2014/5
- Incorporate missing years and time series with varying lengths
- Explore the benefits of a sex-structured model

