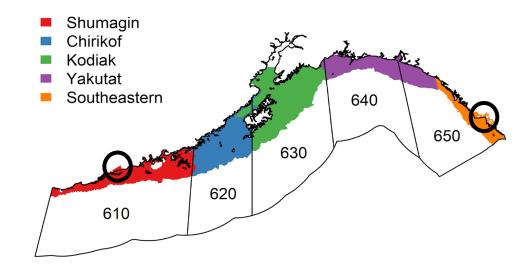
Gulf of Alaska Bottom Trawl Survey: Survey Area Footprint Changes

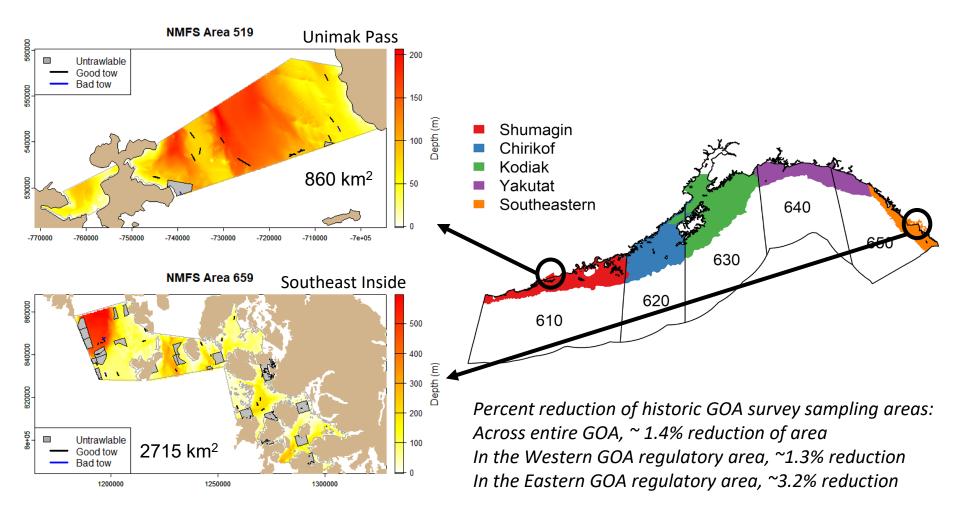
Ned Laman, Zack Oyafuso, and Stan Kotwicki RACE Groundfish Assessment Program

> Gulf of Alaska Plan Team November 2024

2025 GOA Restratification

- Historical GOA strata were aligned with INPFC Districts (colored shapes)
- The new GOA strata are aligned with NMFS Sampling Districts (numbered polygons)
- The historic INPFC survey footprint is not completely aligned with established NMFS Sampling Districts



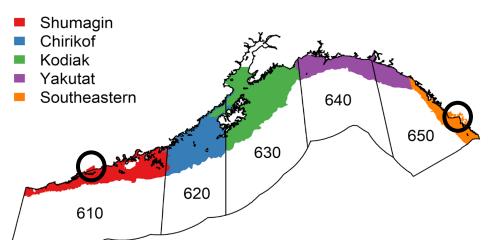


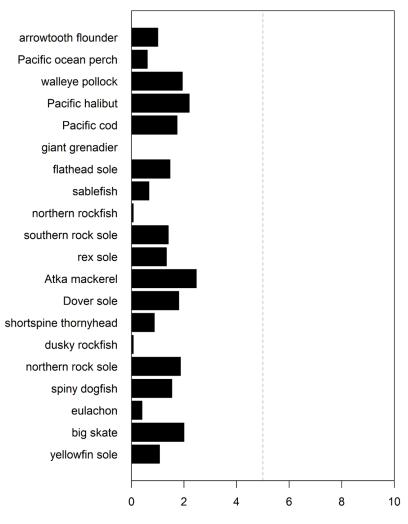
Optimized, Re-Stratified GOA BTS

- Re-Stratified Gulf of Alaska survey footprint defined by depth and NMFS Sampling Districts:
 - Shumagin District 610
 - Chirikof District 620
 - Kodiak District 630
 - Yakutat District 640
 - SE Alaska Outside District 650
- Remove two areas from historical Western and Eastern GOA Regulatory Areas
 - Part of NMFS District 519 (860 km²)
 - Part of SE Alaska Inside District 659 (2,715 km²)

Biomass Estimate Changes

Gulf-wide absolute percent change in design-based biomass estimates from GOA BTS surveys (1990-2023) when removing historic areas that fall outside of NMFS Sampling Districts used in the restratified Gulf survey

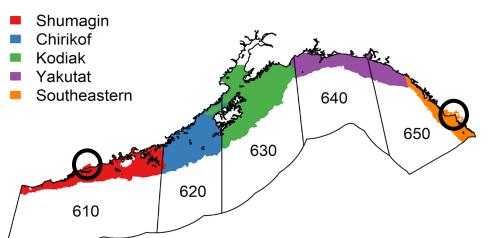


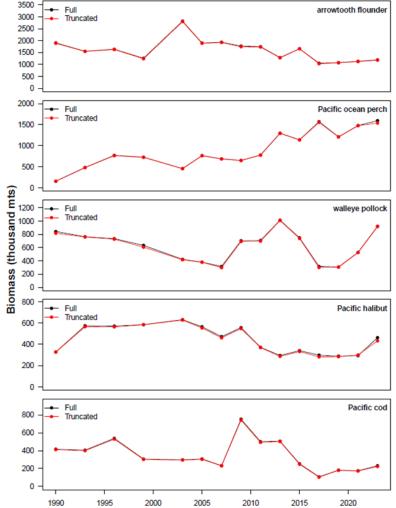


Average % Change in Biomass

Biomass Time Series

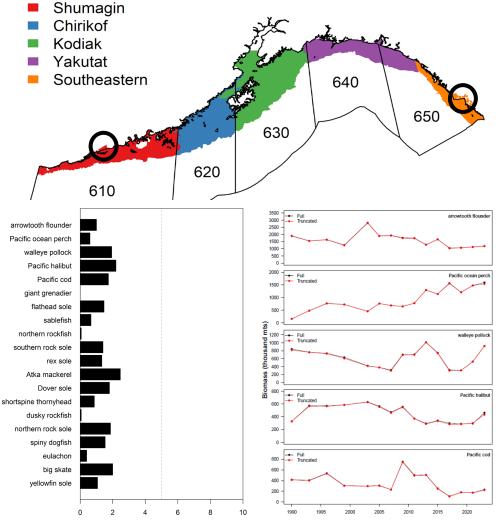
Gulf-wide biomass time series remain basically unchanged for the 5 most abundant species when removing the historic sampling areas that fall outside of NMFS Sampling Districts used in the restratified Gulf survey





Conclusions

- Restratification aligns Gulf strata with NMFS sampling districts
- Two, relatively small, historically sampled areas are eliminated from restratified GOA survey area
- Minimal change to Gulf-wide biomass estimates
- Gulf-wide biomass time series largely unchanged



Average % Change in Biomass