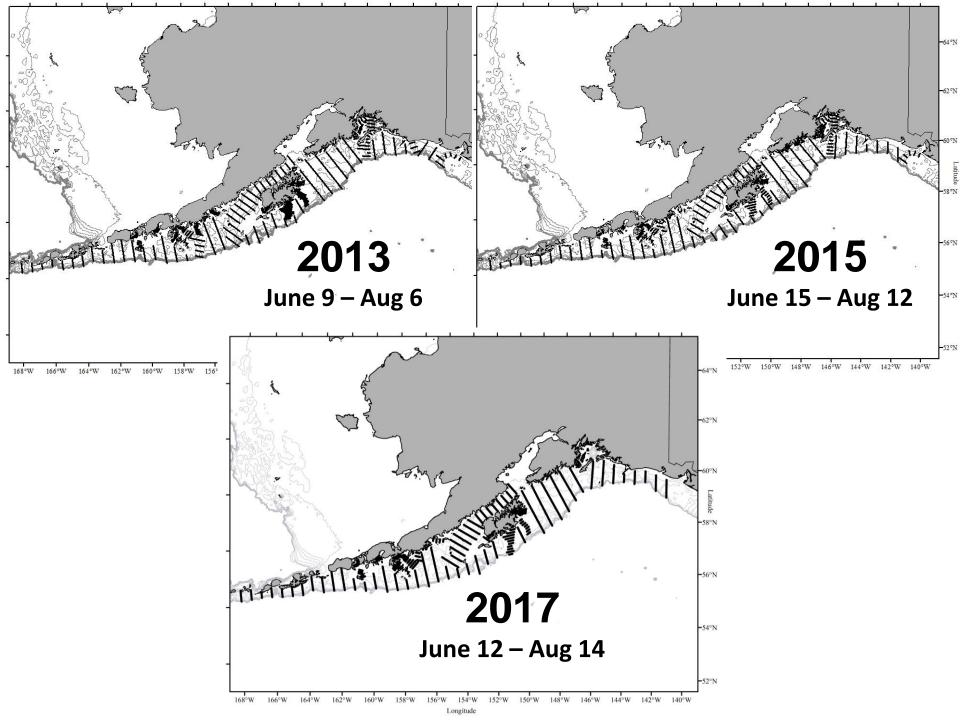
Preliminary Results of the Summer 2019 Acoustic-Trawl Survey of Walleye Pollock in the Gulf of Alaska May 30 - Aug 7, 2019

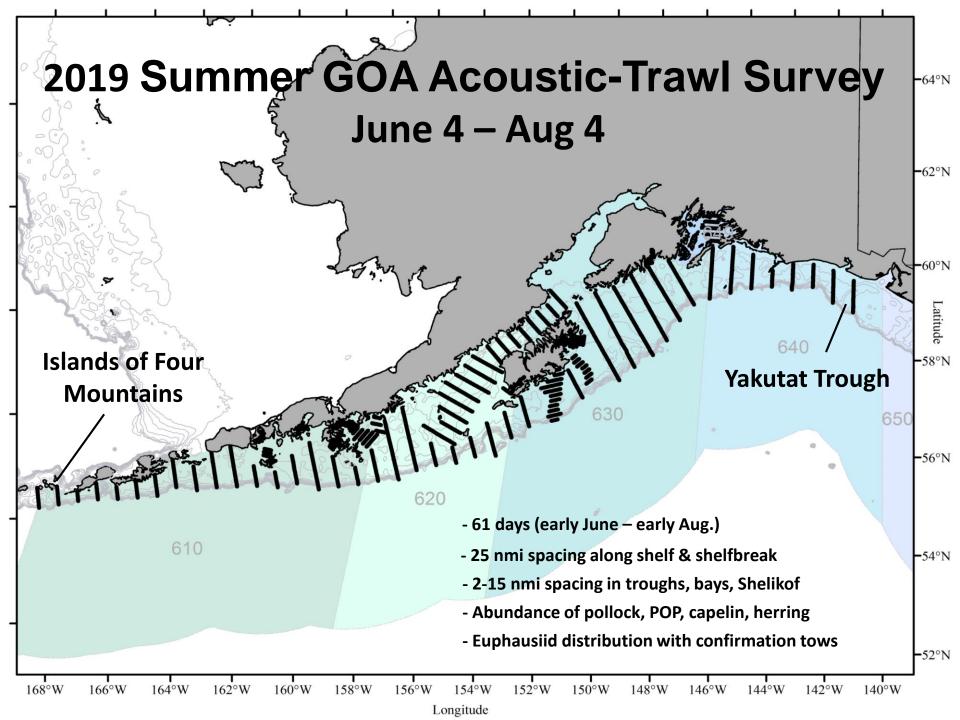


NOAA FISHERIES

Midwater Assessment & Conservation Engineering

September 18, 2019





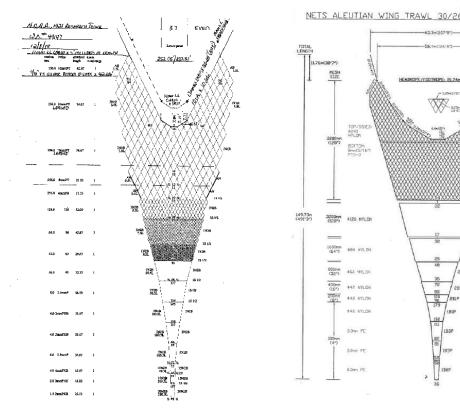
LFS1421 vs AWT

AWT nets are old and need severe overhaul so we are opting to replace them with a new smaller more agile net for AT surveys

LFS1421: 17m x 39m = 660m² 1/8" codend mesh liner AWT: $23m \times 33m = 760m^2$ 1/2" codend mesh liner

Quicker easier deployment

Responds quicker to wire adjustments when fishing



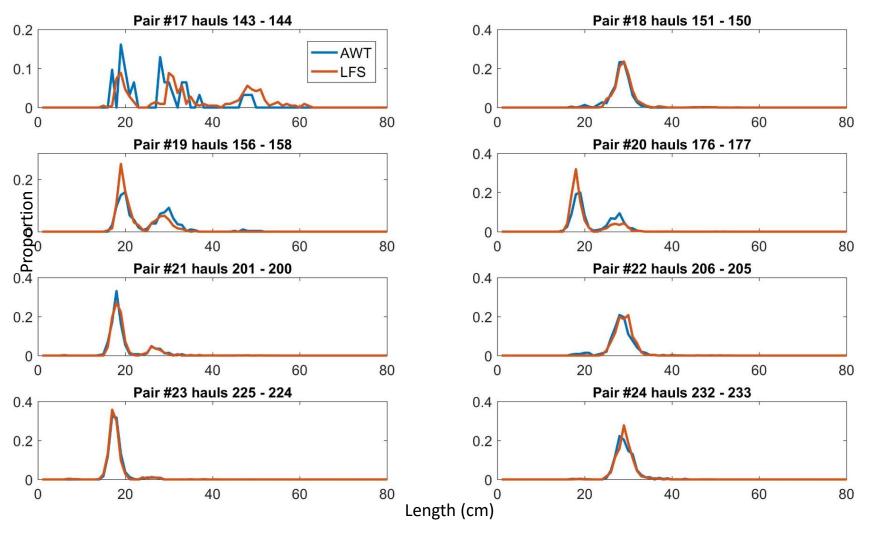


Trawl Catch Comparison

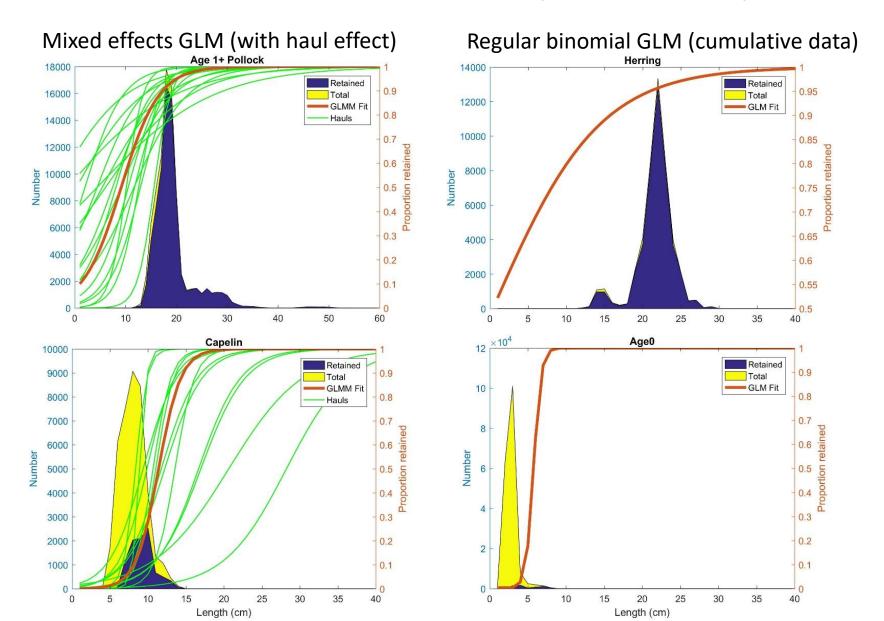
- 26 paired trawl sets: randomized order, daylight only

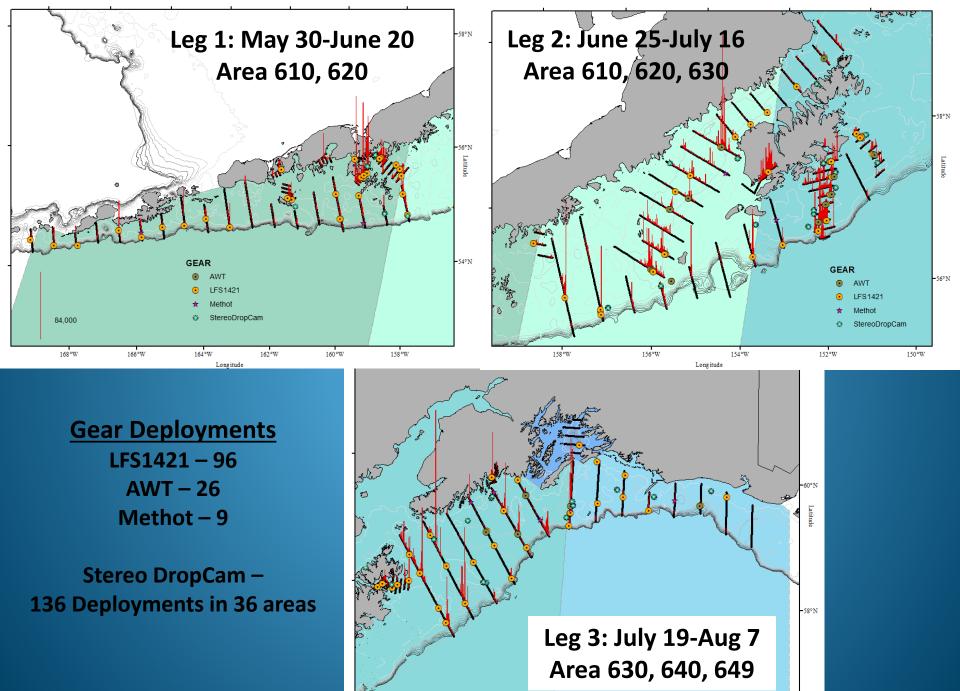
- Results will be used to compare AWT time series (2013-2017) to current and future LFS surveys

Examples of pollock length frequency in catch

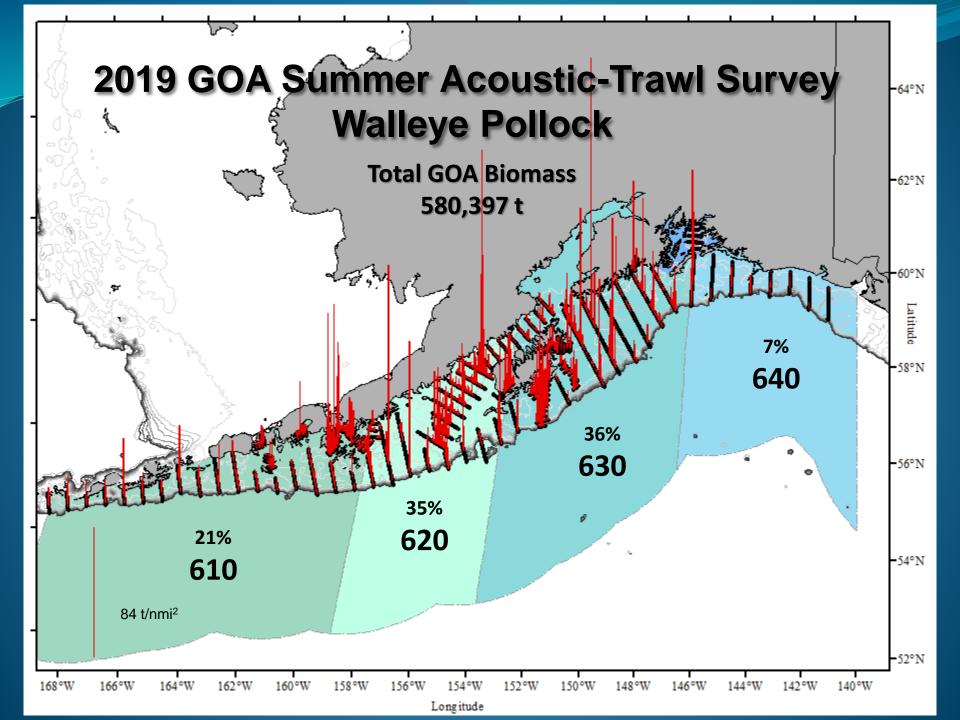


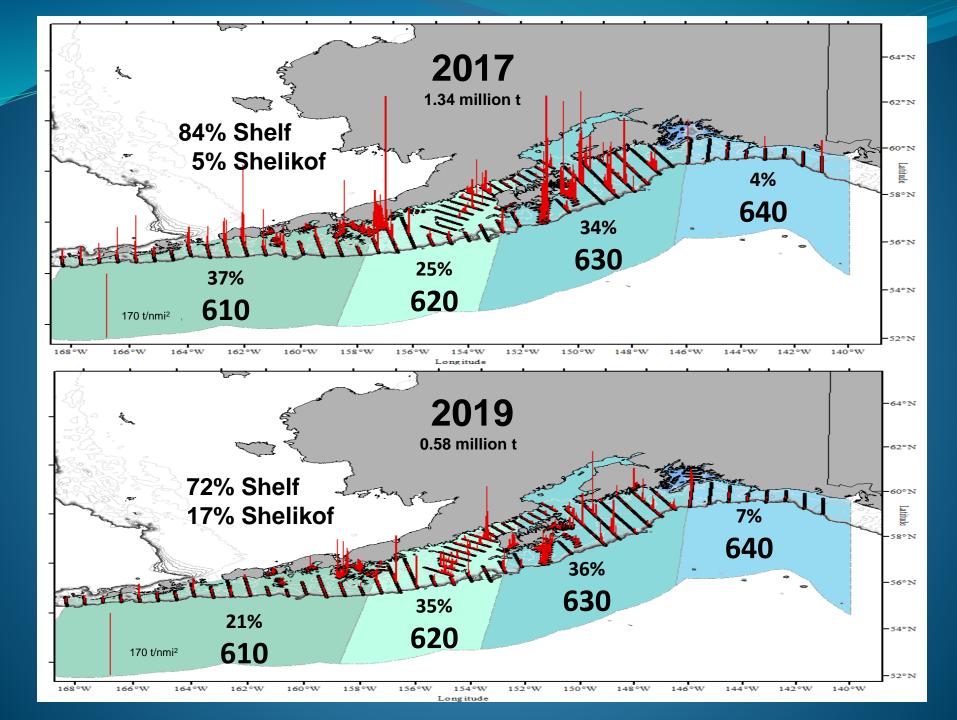
Multi-Species Trawl Selectivity Estimates for 10 groups From LFS1421 Trawl Pocket Nets (1/8" mesh size)





152°W 150°W 148°W 146°W 144°W 142°W 140°W Lonzitude





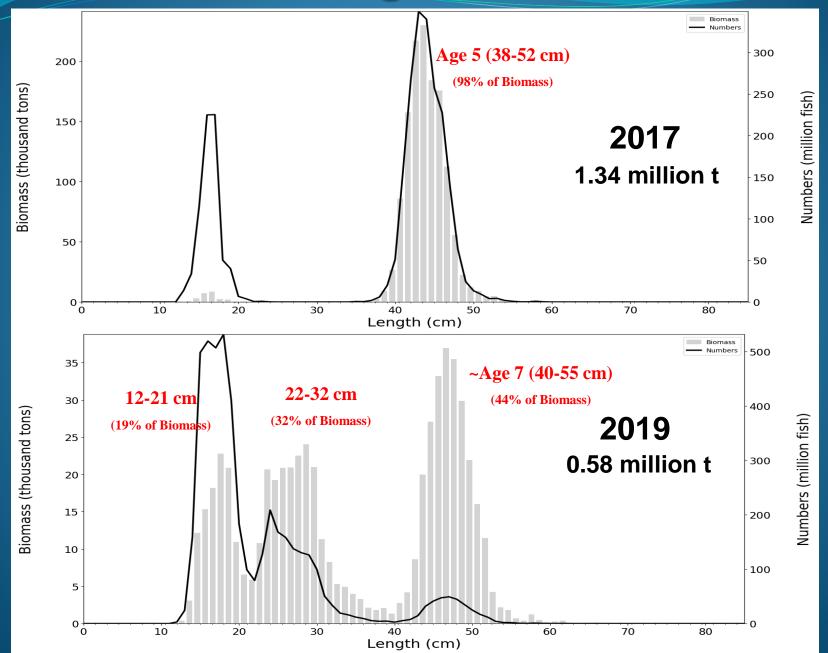
2019 GOA Biomass by Geographic Area

Total GOA Biomass

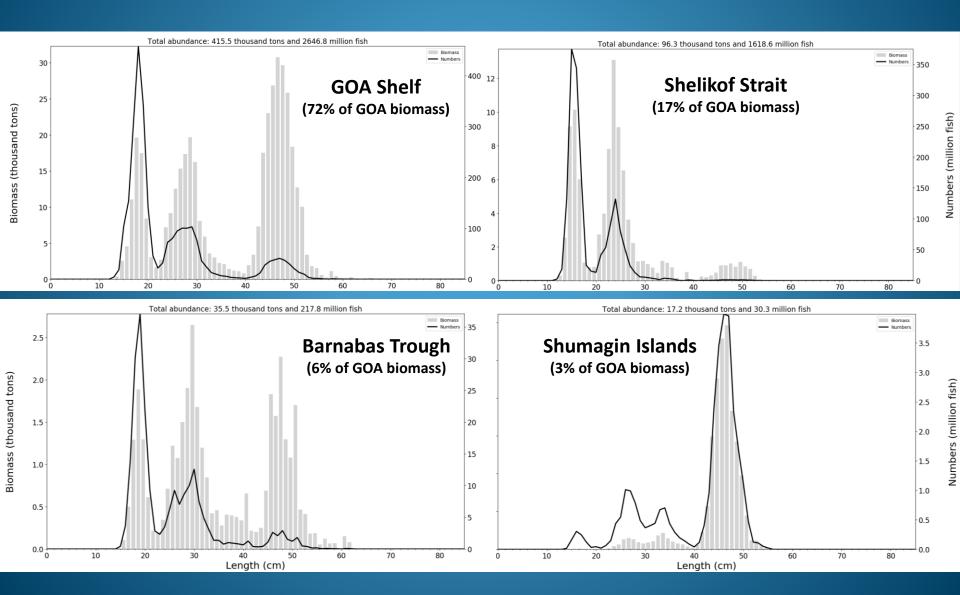
580,397 t

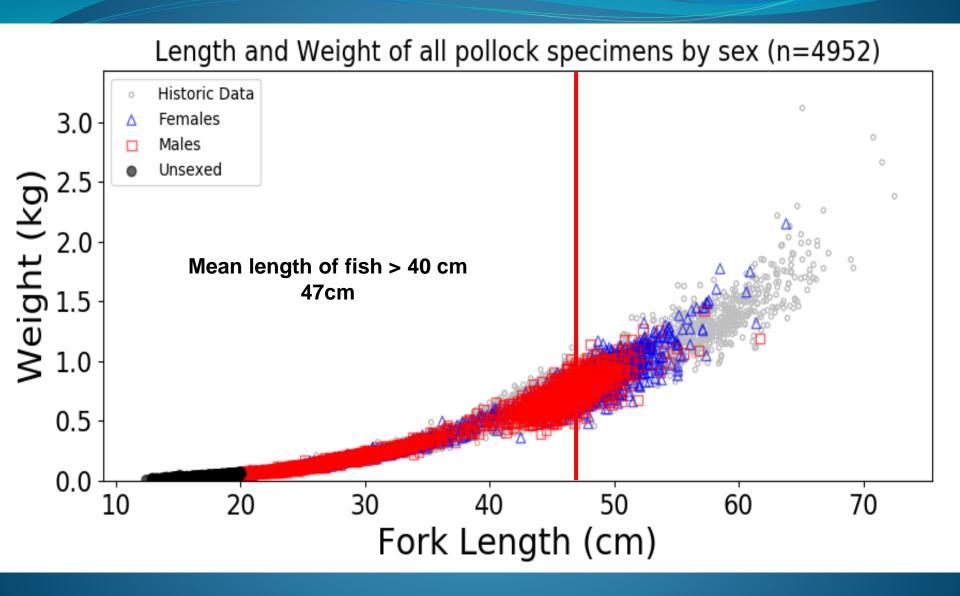


Pollock Length Distribution

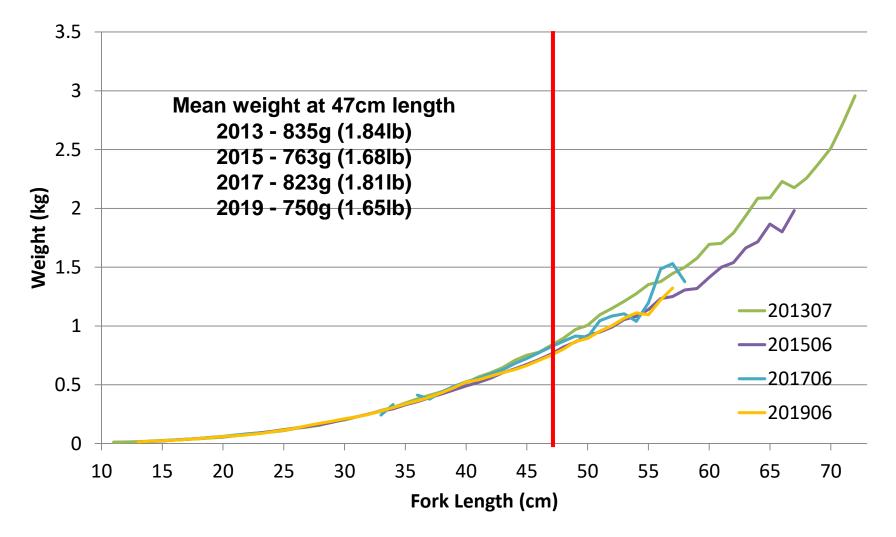


Pollock Length Distributions from Areas with Most Abundance

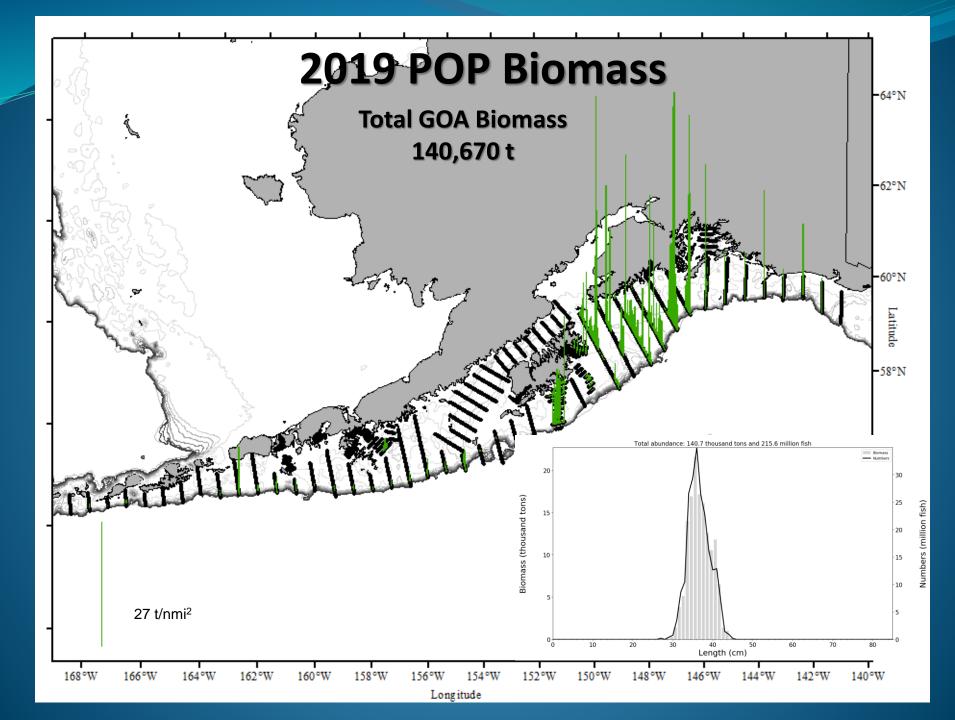


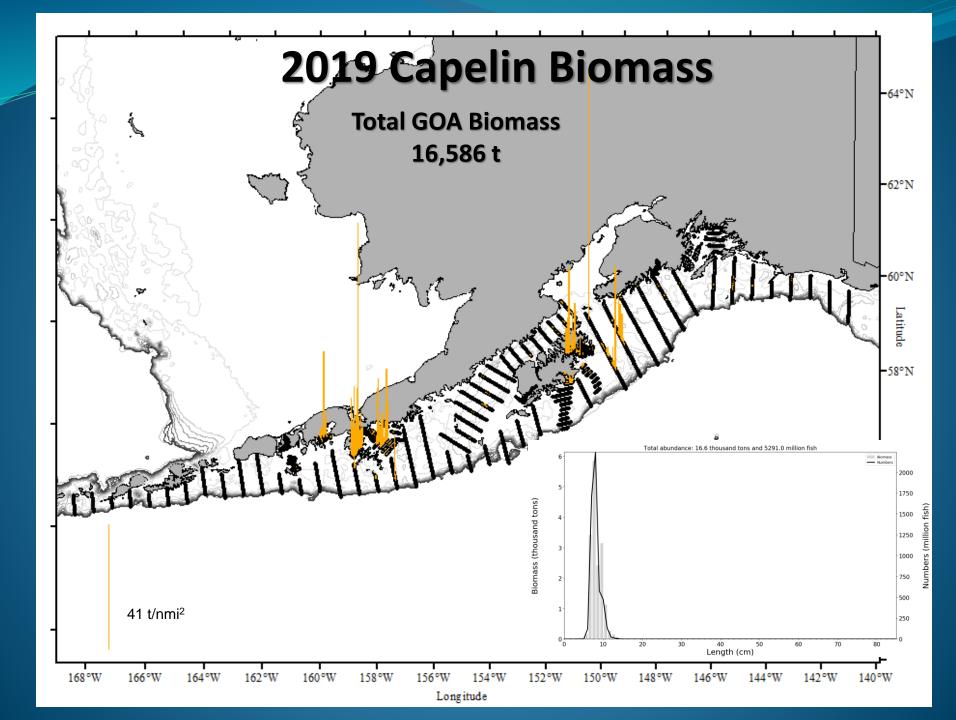


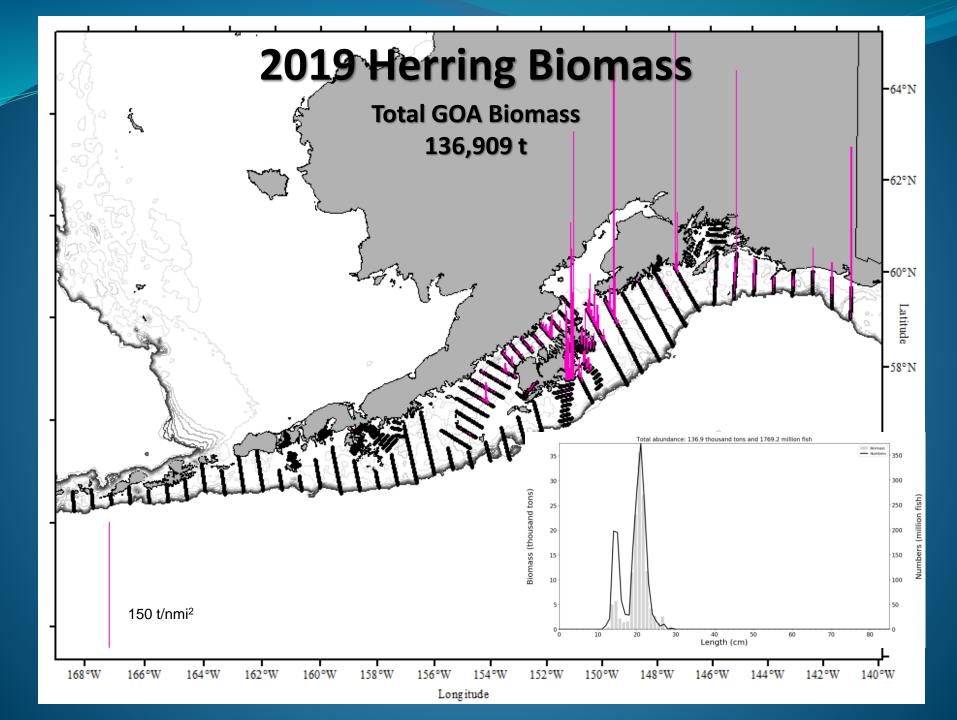
Weight at Length

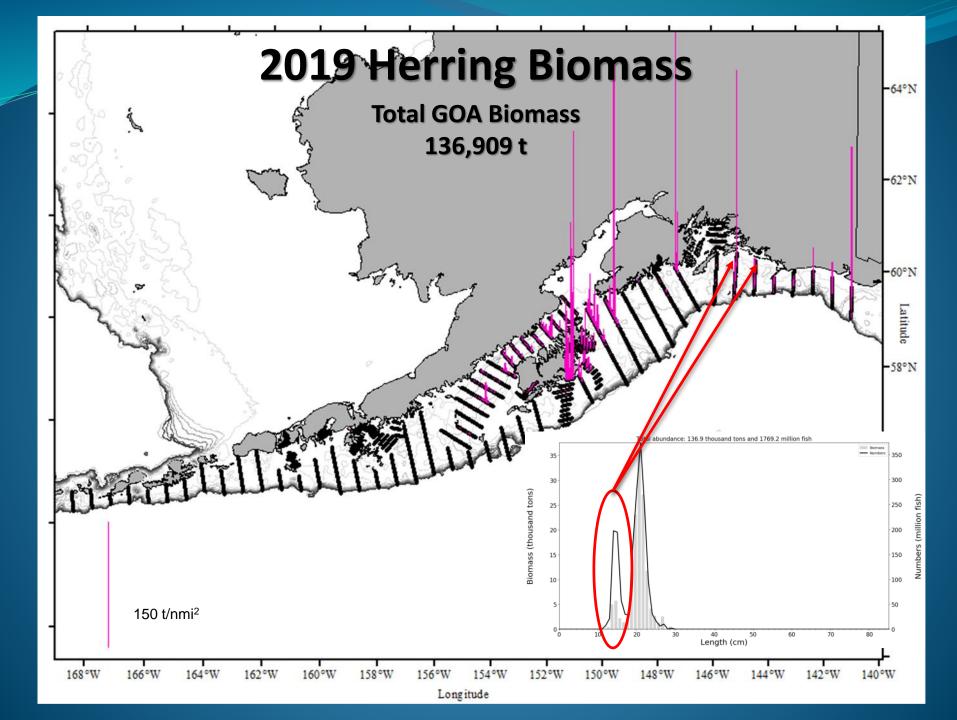


2019 Winter vs Summer (1.2 million t vs 0.6 million t) Difference unlikely to be explained by: Dyson vs Shimada Same class of noise-quieted vessel Same acoustic equipment Acoustic equipment calibration •LFS vs AWT net Selectivity correction Age-0 contamination

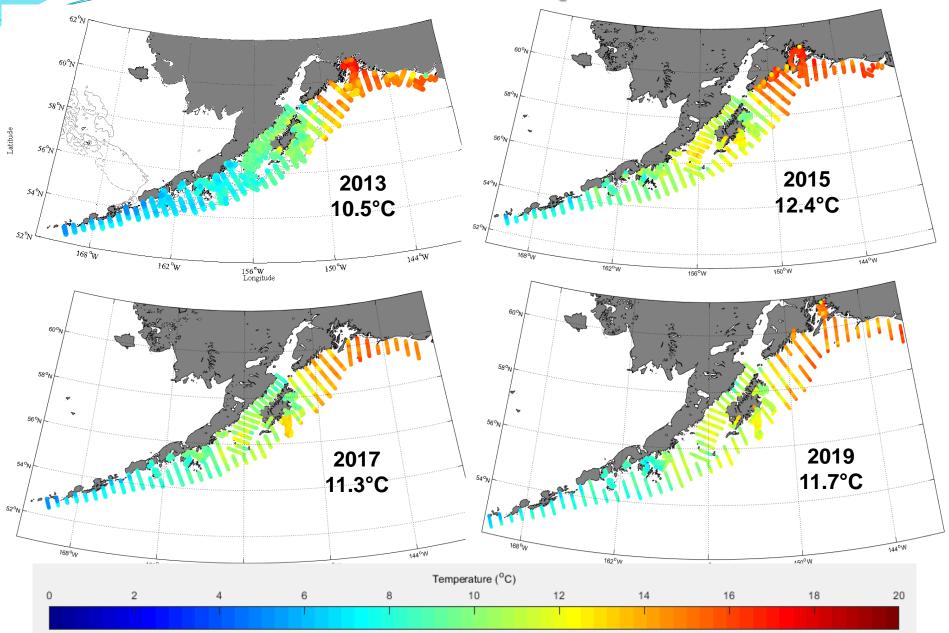


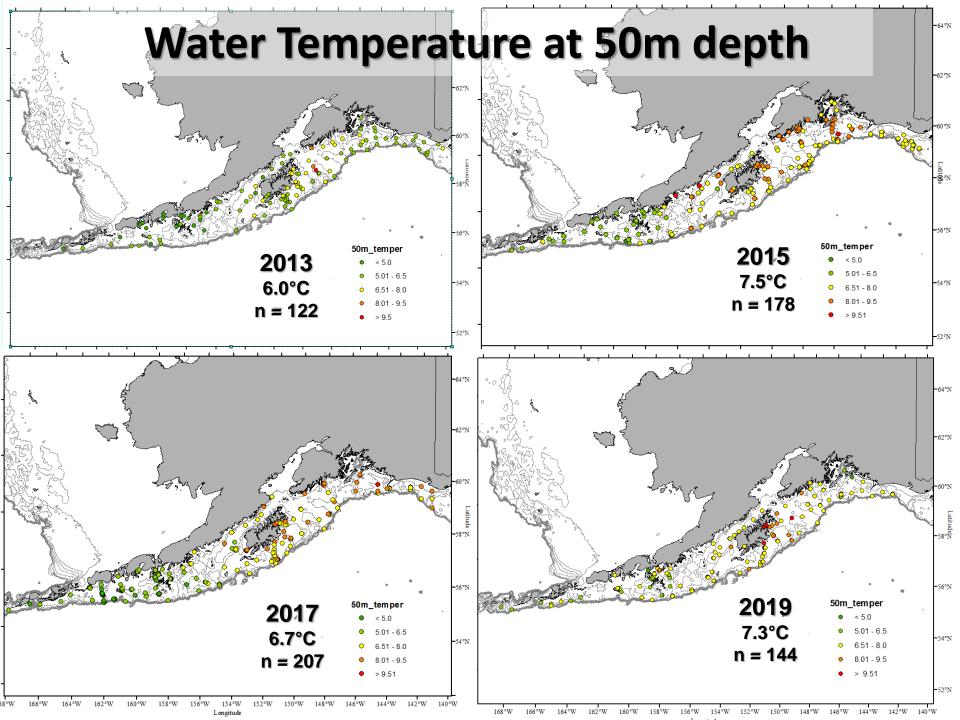


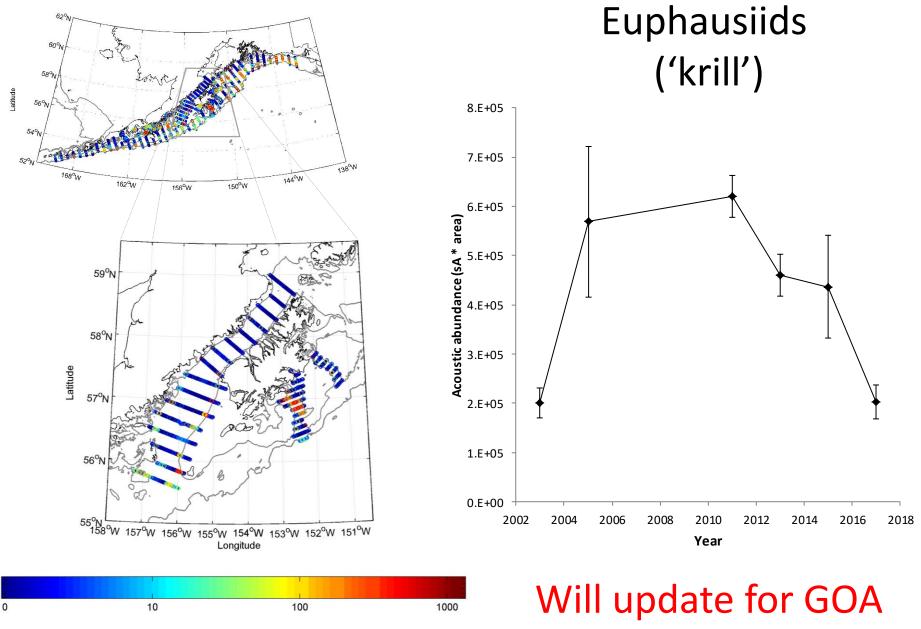




Sea Surface Temperatures

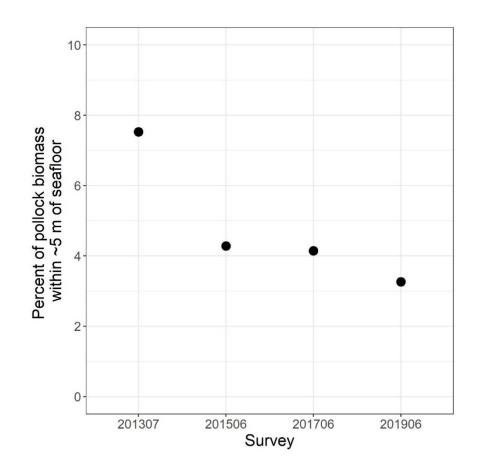






in 2019

Were pollock less available to the summer GOA survey this year compared to past?



- Compared to previous GOA surveys, pollock not significantly closer to bottom
 - Proximity to the bottom does not appear much different than in past

Were pollock less available to the AT survey in 2019?

 Pollock do not appear to be moving 'off shelf' or inshore relative to past surveys

