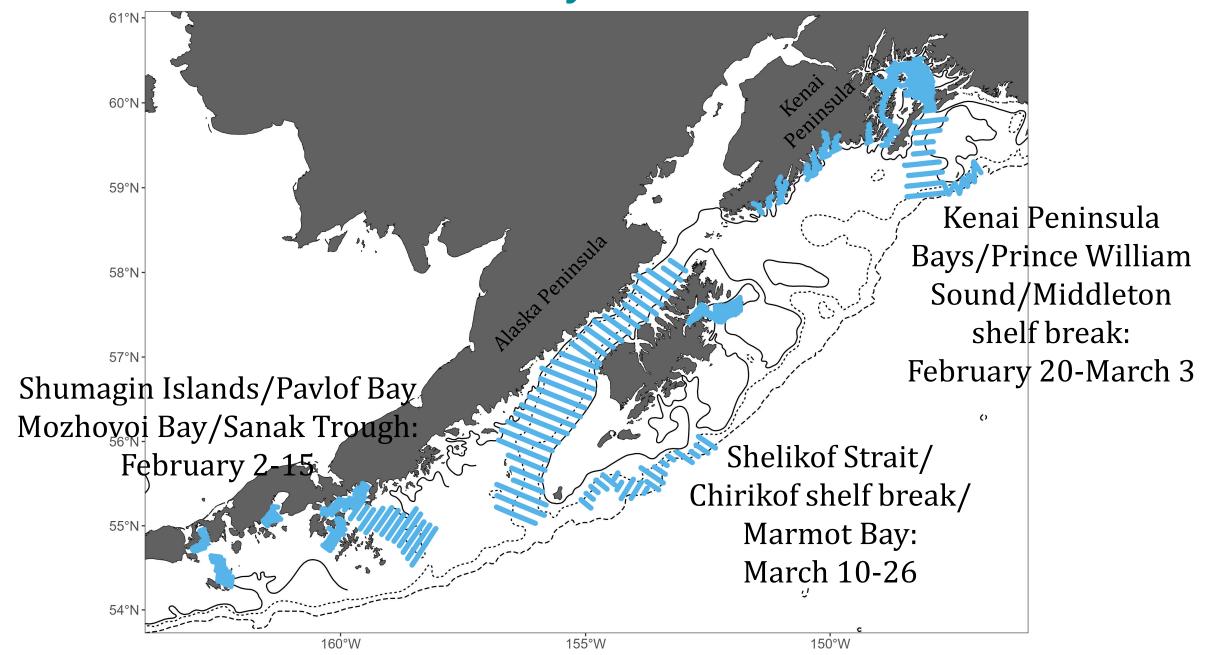


Results of 2025 Winter Pollock Pre-Spawning Acoustic-Trawl Surveys in the Gulf of Alaska

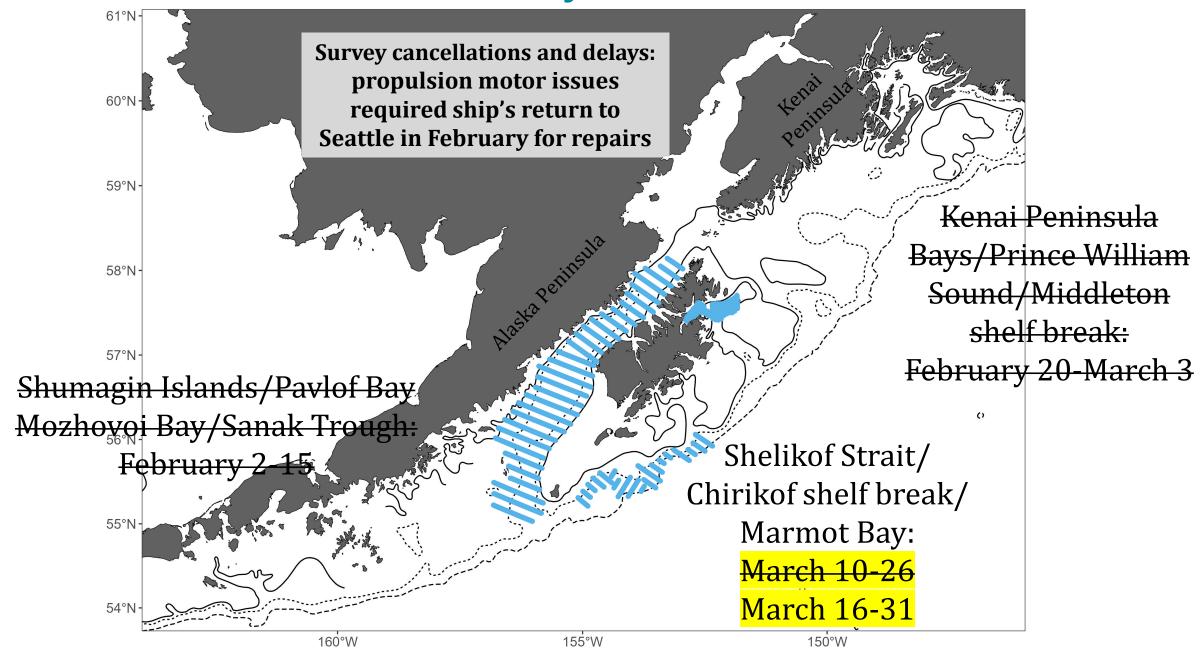
Darin Jones*, Mike Levine, & MACE Staff



2025 Winter GOA AT Survey Plan



2025 Winter GOA AT Survey



Acoustic-Trawl Survey Methods

1,242 nmi of transects

Survey 24 hrs/day

High backscatter "targeted" hauls

Abundance estimates use 38 kHz

- 16 m below surface to 0.5 m above seafloor

Physical oceanographic data

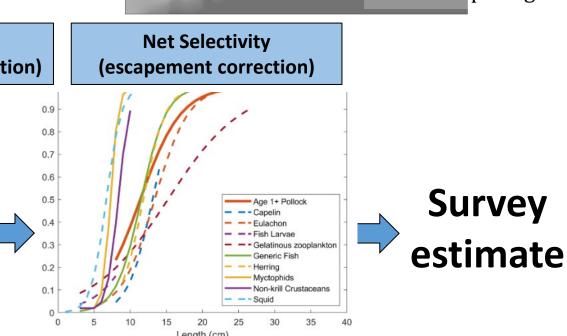
- Continuous SST from ship's flow-through system

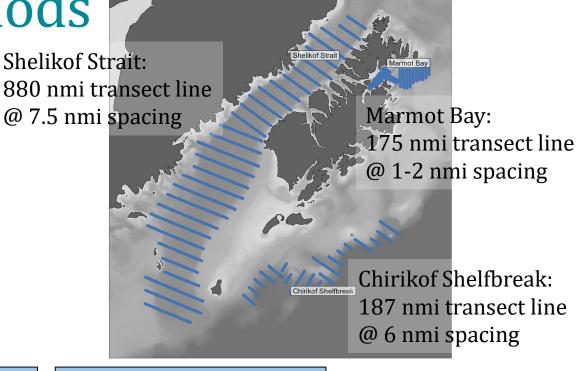
- Temp profile at trawl locations

Acoustic data collection along parallel transects

Targeted trawls (species and length composition)

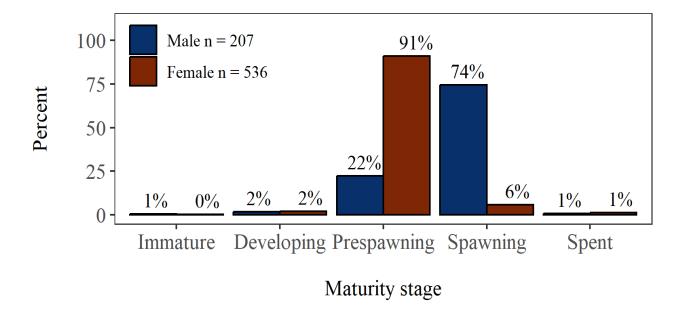


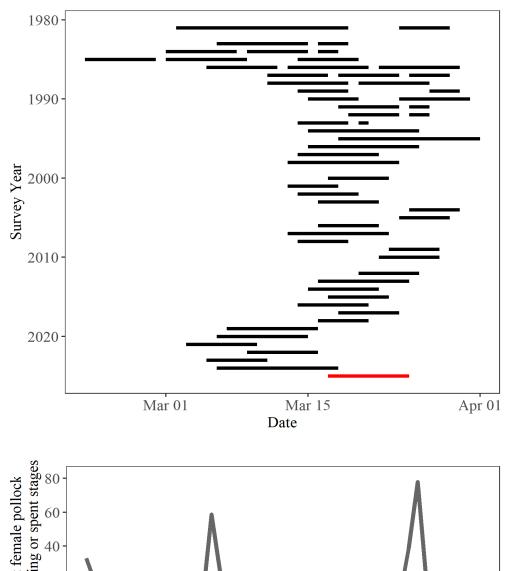


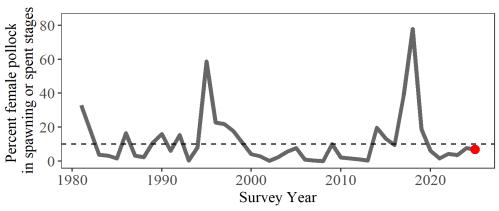


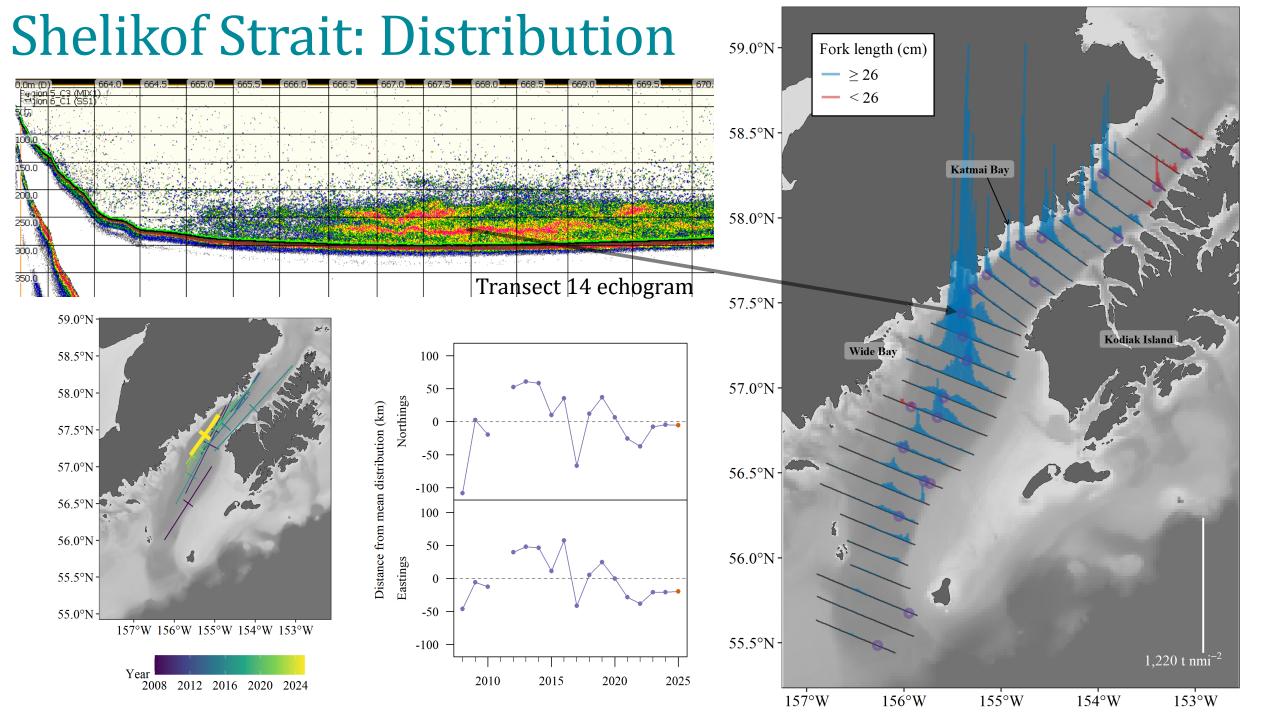
Shelikof Strait: Survey Timing

- Survey start moved slightly earlier starting in 2019 due to more females observed in spawning/spent stages
- 7% females >40 cm spawning/spent indicates survey timing was adequate despite delayed start (ideally ≤10% spawning/spent)





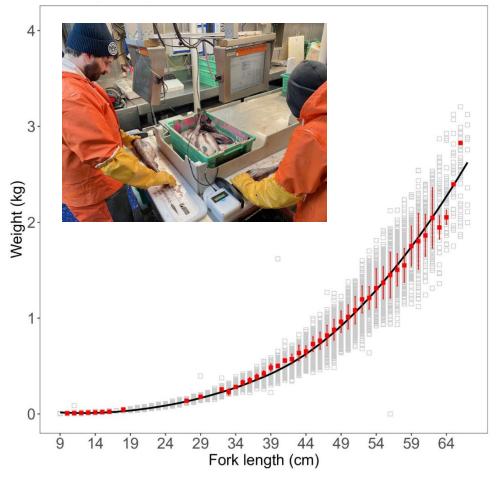


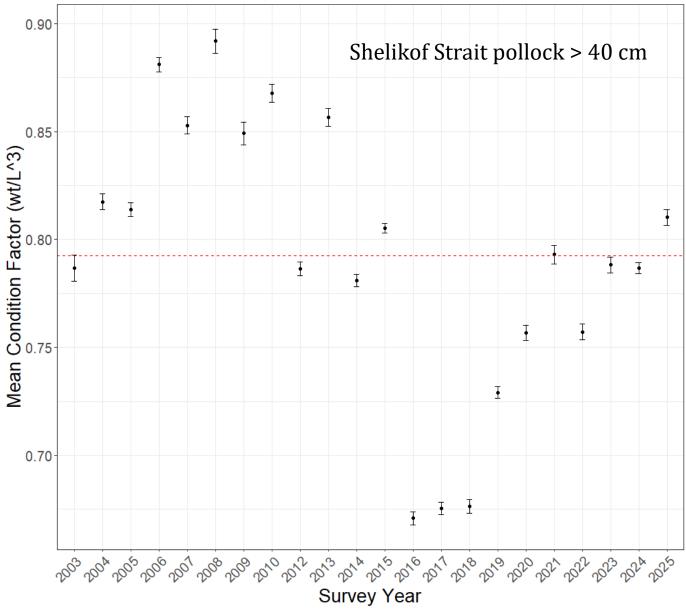


Shelikof Strait: Length/Weight

Grey: measurements since 2008 Black line: average weight at length

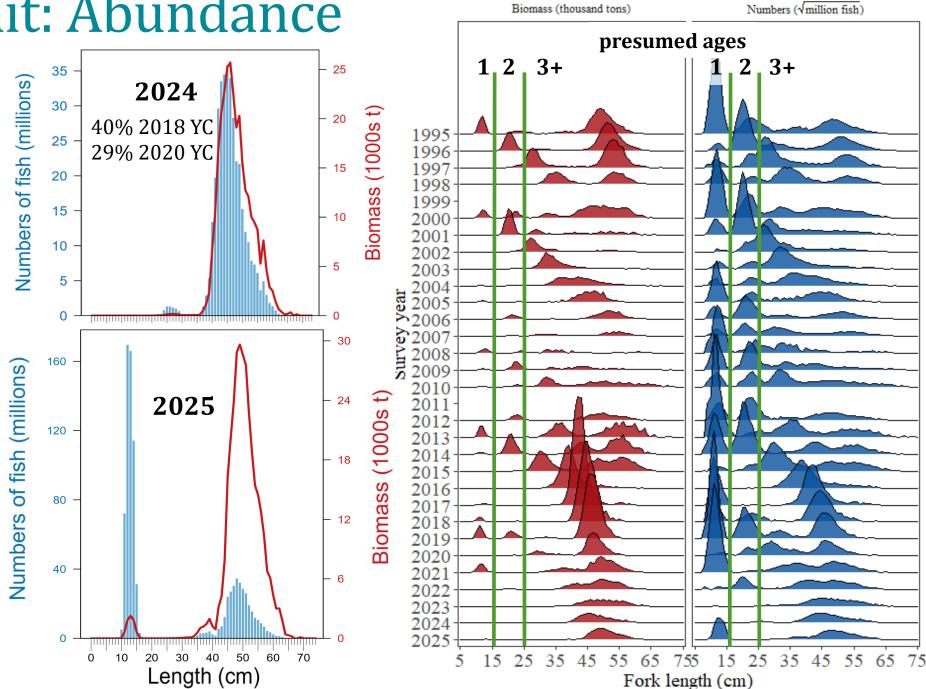
Red: 2025



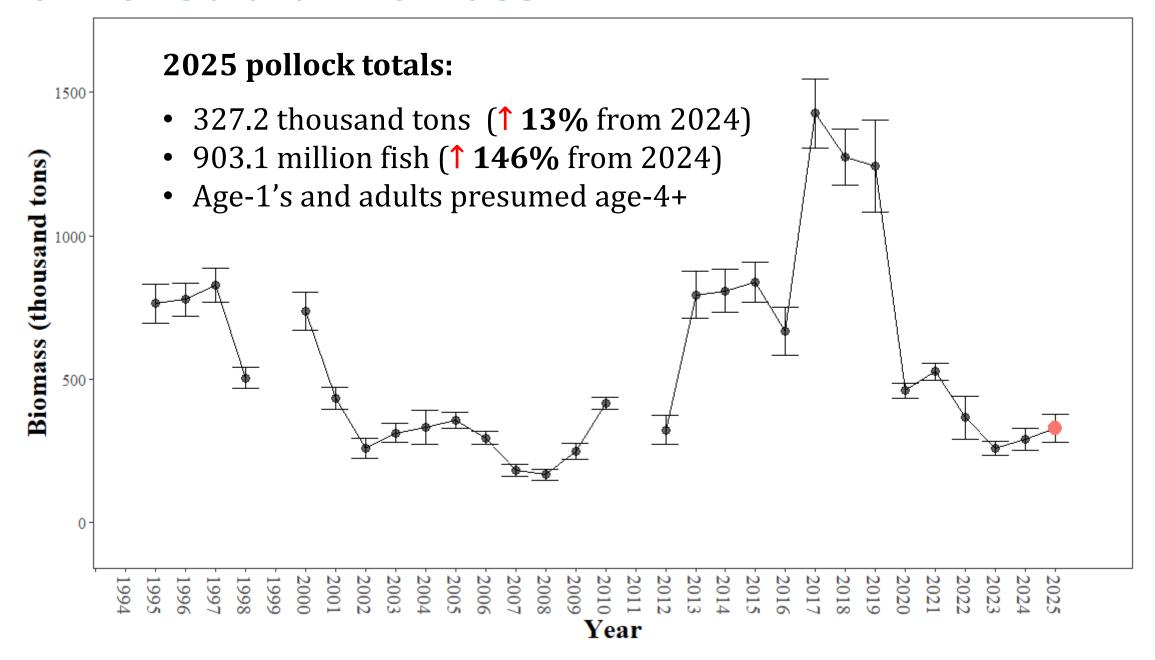


Shelikof Strait: Abundance

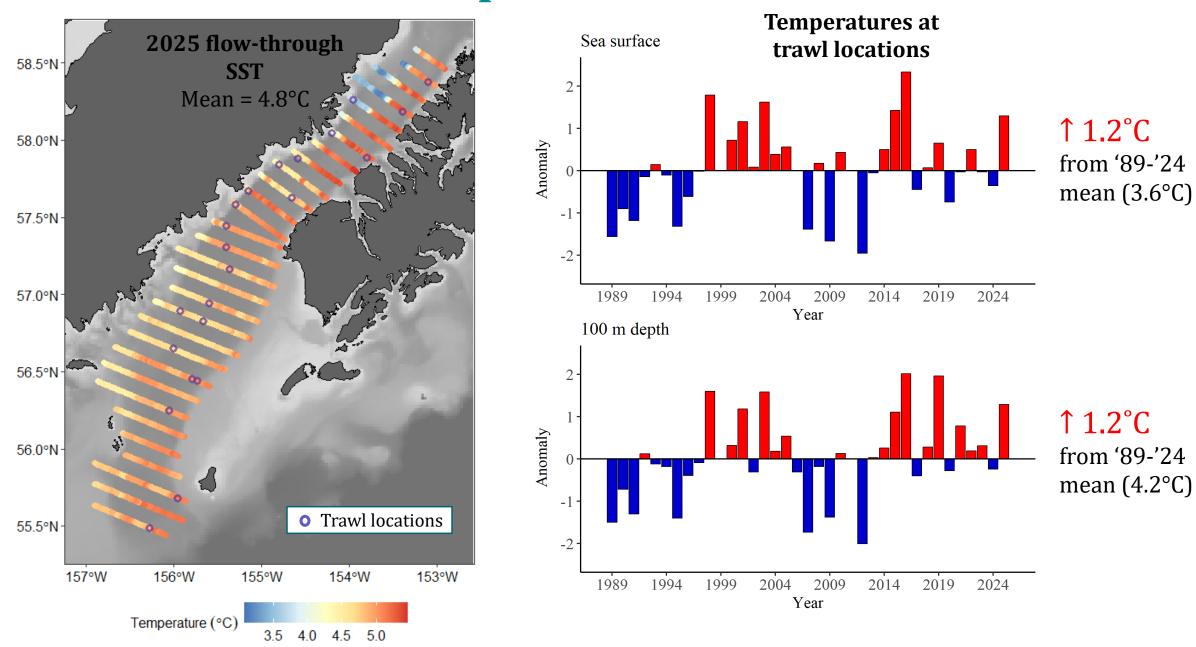
- 2025 adult fish length distribution roughly similar to 2024
- Age-1 fish seen in2025
- Based on the McKelvey Index 2024 year class is a Medium age-1 year class



Shelikof Strait: Biomass

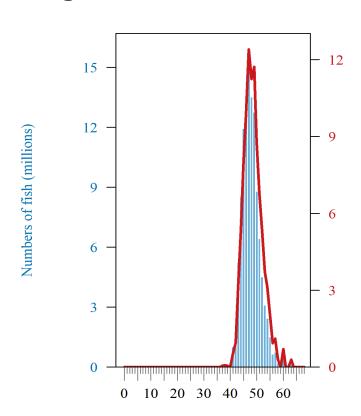


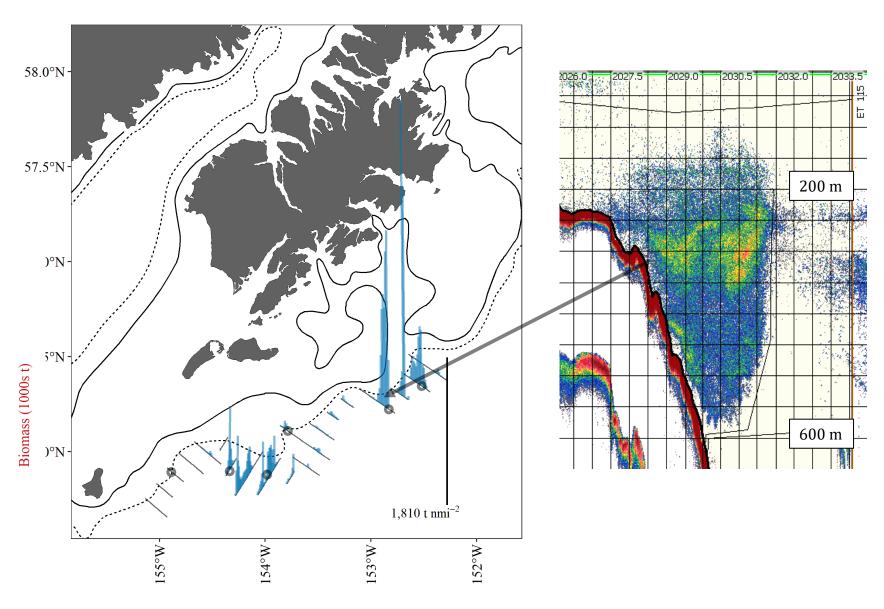
Shelikof Strait: Temperatures



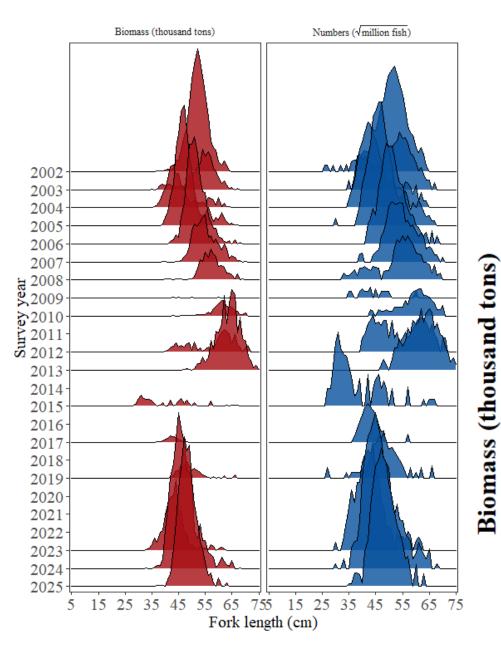
Chirikof Shelfbreak: Distribution and Abundance

- Dense aggregations of pollock mixed with Pacific Ocean perch
- Population presumed age 4+



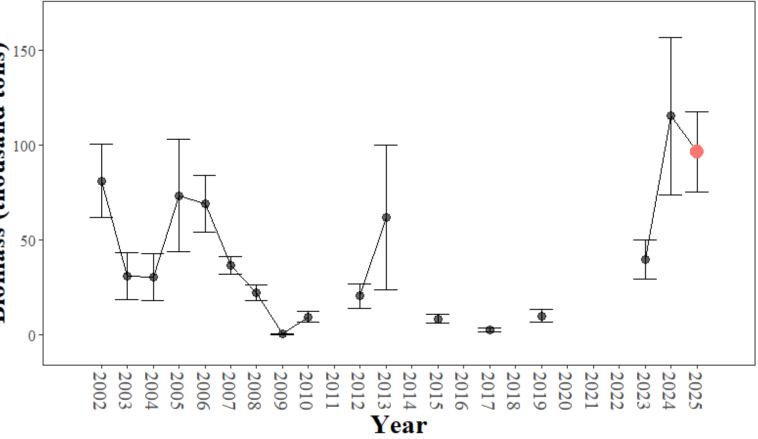


Chirikof Shelfbreak: Abundance

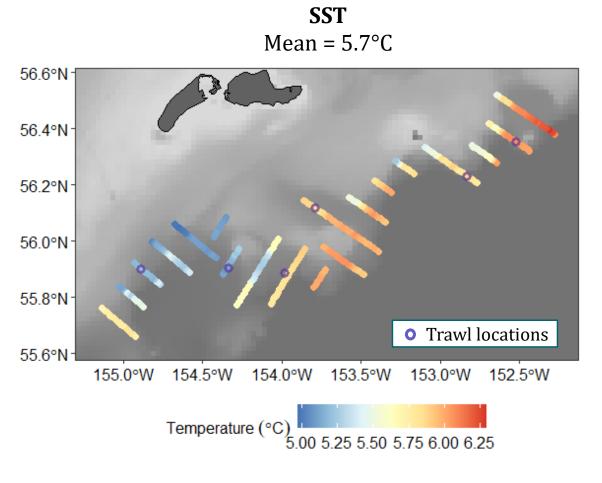


2025 pollock totals:

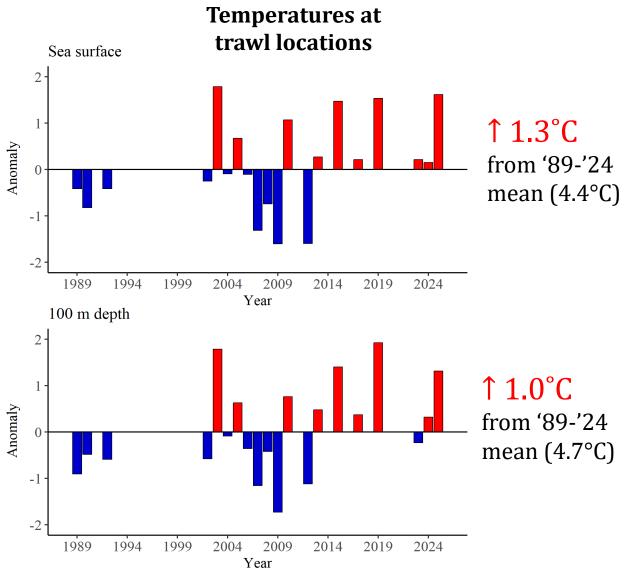
- 96.5 thousand tons (**J 16%** from 2024)
- 113.3 million fish (**J 31%** from 2024)
- Majority presumed age-4+



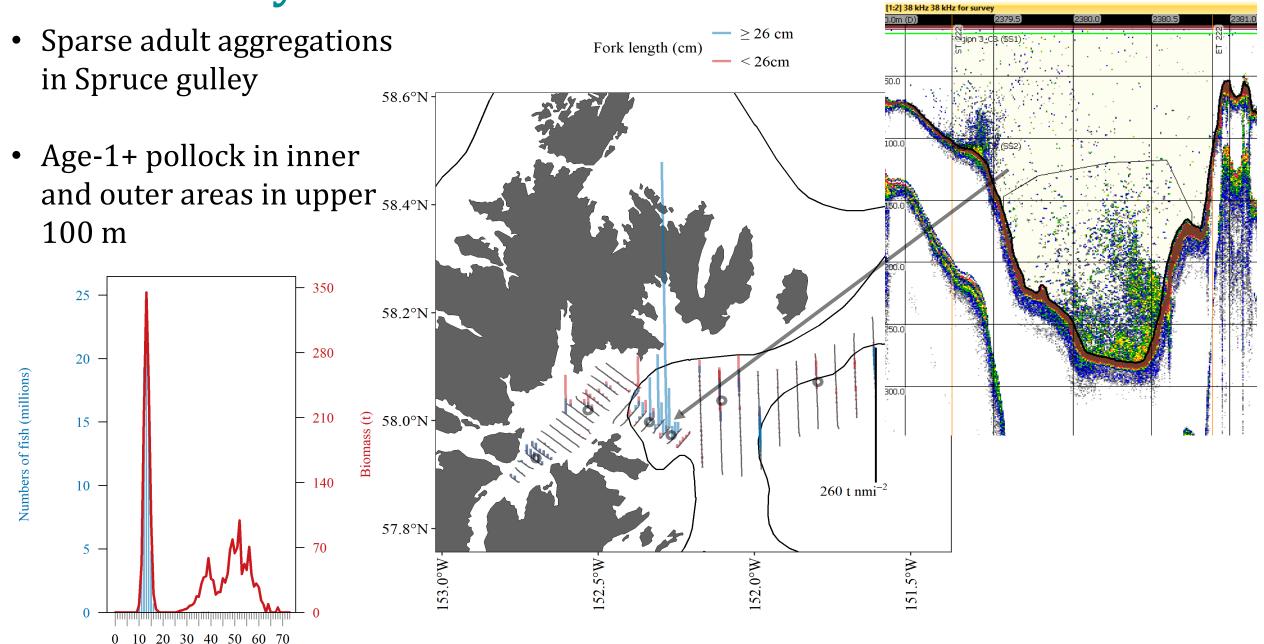
Chirikof Shelfbreak: Temperatures



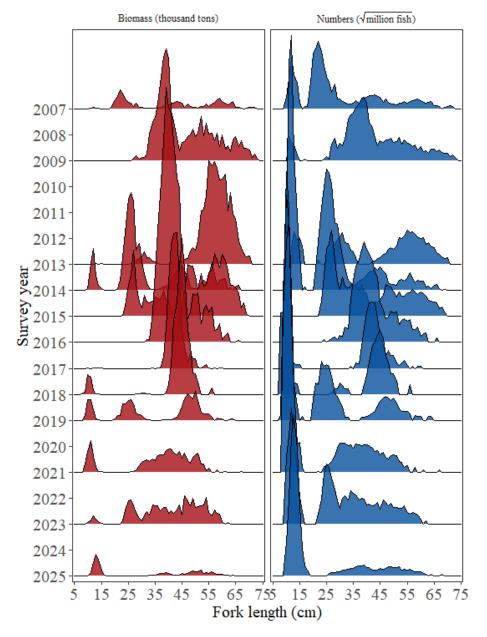
2025 flow-through



Marmot Bay: Distribution and Abundance

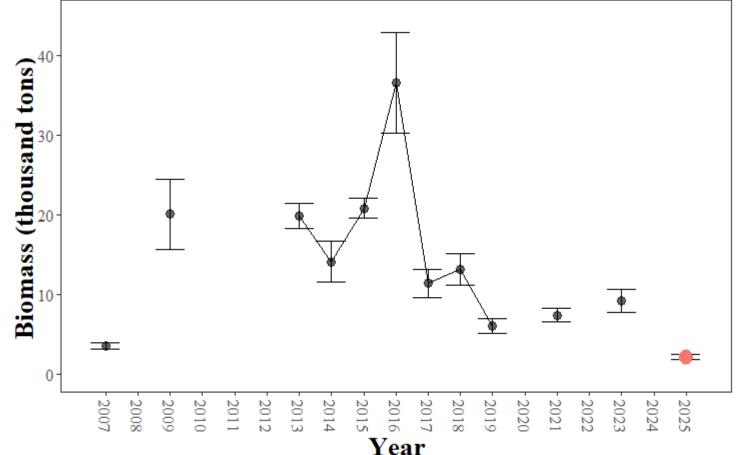


Marmot Bay: Abundance

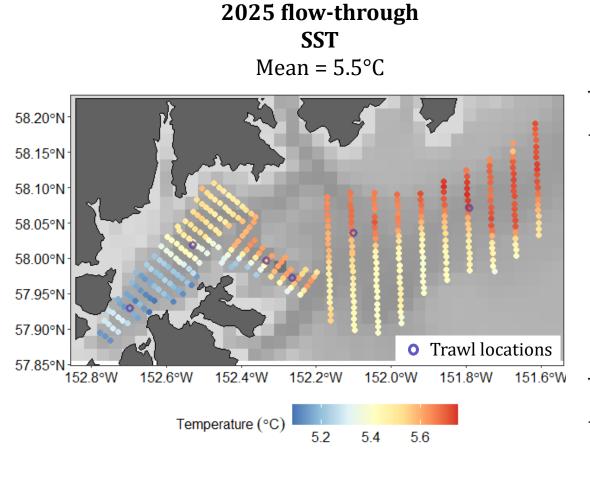


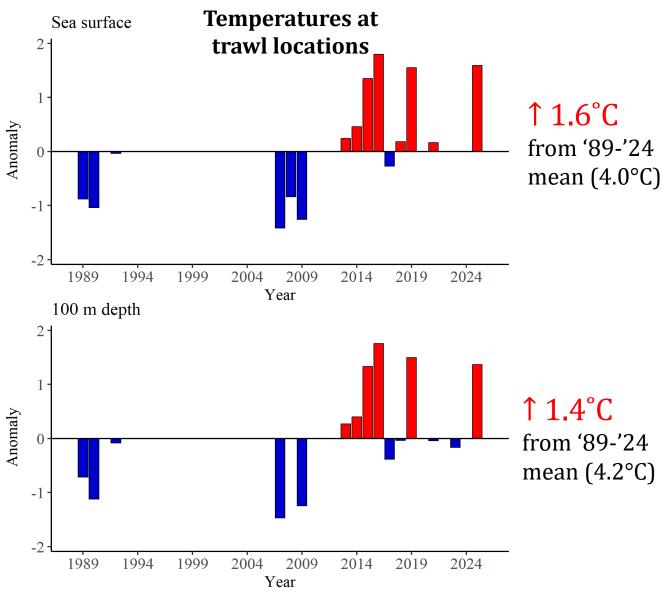
2025 pollock totals:

- 2.2 thousand tons (**J 76%** from 2023)
- 74.6 million fish (**19%** from 2023)
- Mix of age-1 and age-3+ fish

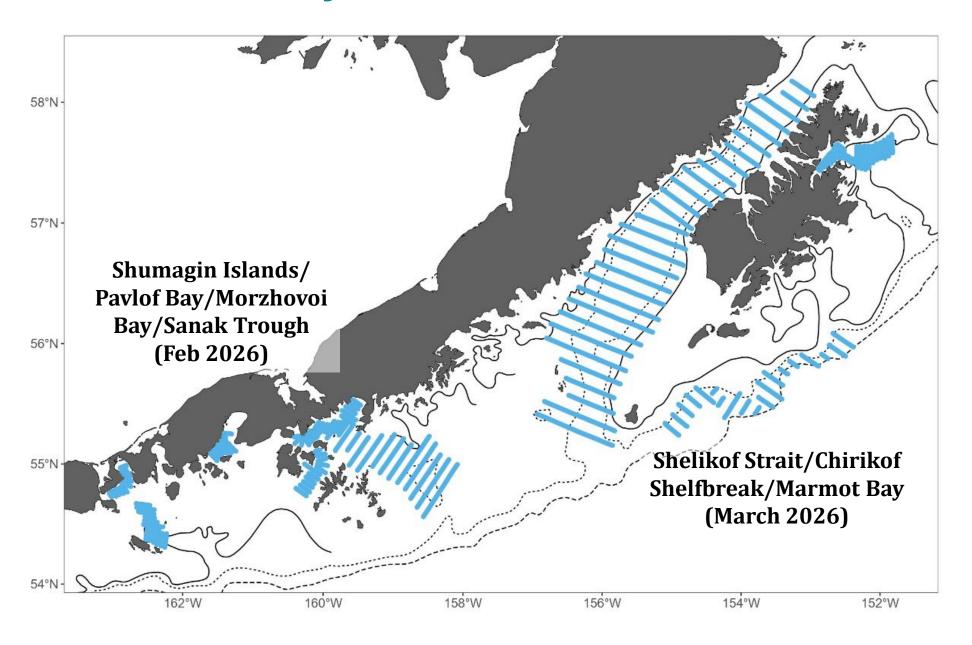


Marmot Bay: Temperatures





Winter 2026 Survey Plans



Questions?





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MACE Program Manager: Sandy Parker-Stetter (sandy.parker-stetter@noaa.gov)