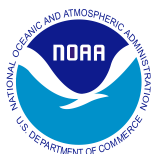


Results of the 2024 winter acoustic-trawl (AT) survey of the Bogoslof Island area

Nathan Lauffenburger, Denise McKelvey and Mike Levine

Alaska Fisheries Science Center

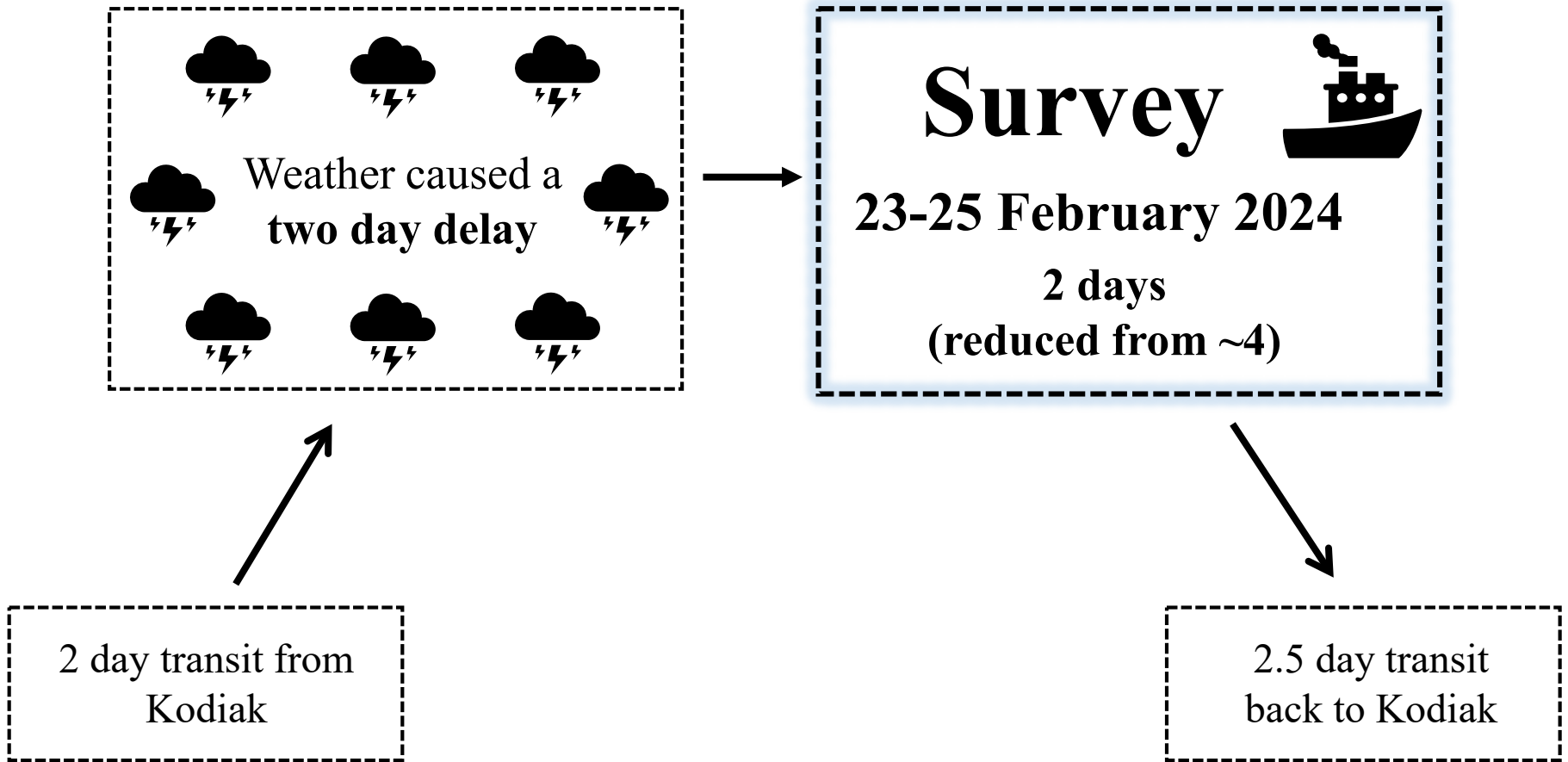
Midwater Assessment and Conservation Engineering (MACE)



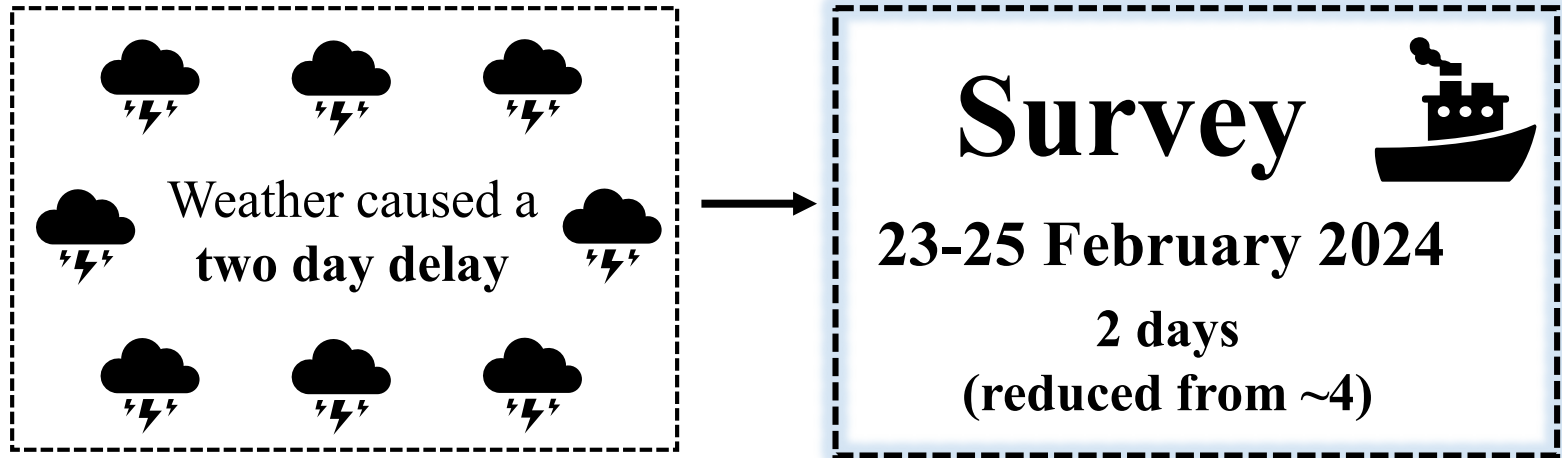
18-28 February 2024

NOAA ship *Oscar Dyson*

2024 Survey timing



2024 Survey timing



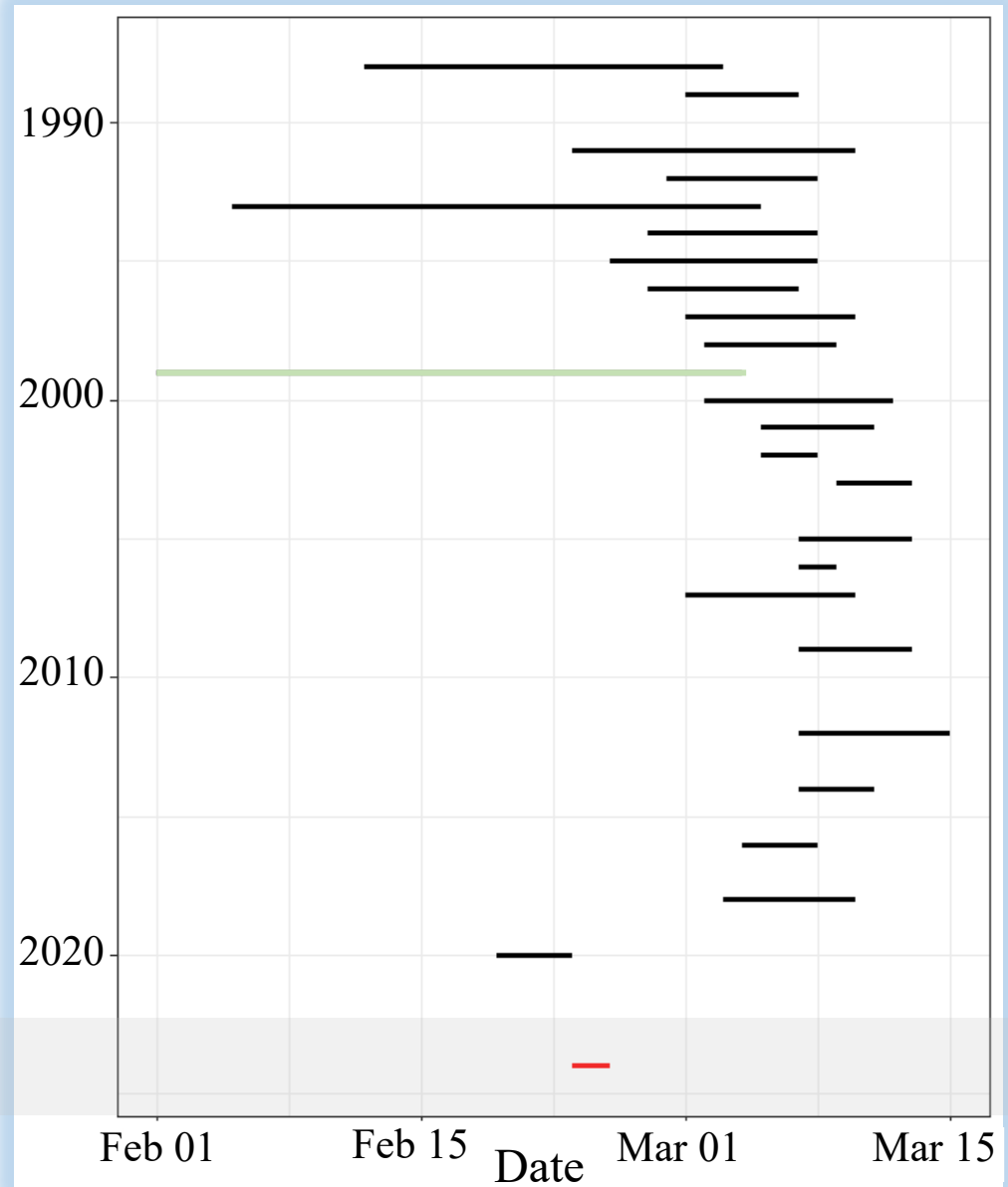
- Could only complete **two successful trawls** (a third one was unsuccessful due to codend not closed properly)

- Reduced # of transects from our planned 35 transects (spaced @ 3 nmi) to...

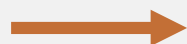
19 transects spaced at a combination of 3 and 6 nmi to prioritizing regions with historically high pollock variance

Historic Survey timing

Survey year

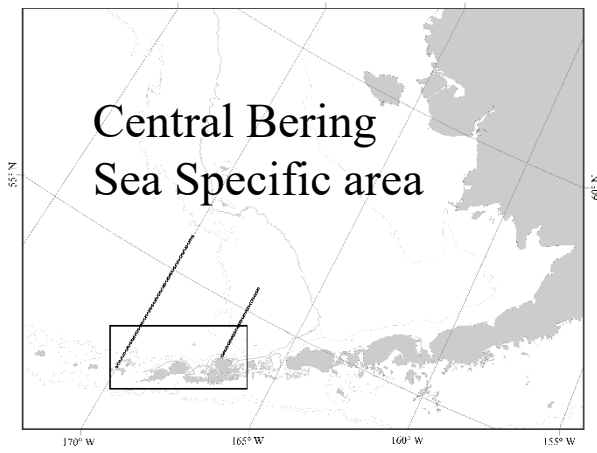


23-25 February 2024



Bogoslof Island AT survey area

Central Bering
Sea Specific area

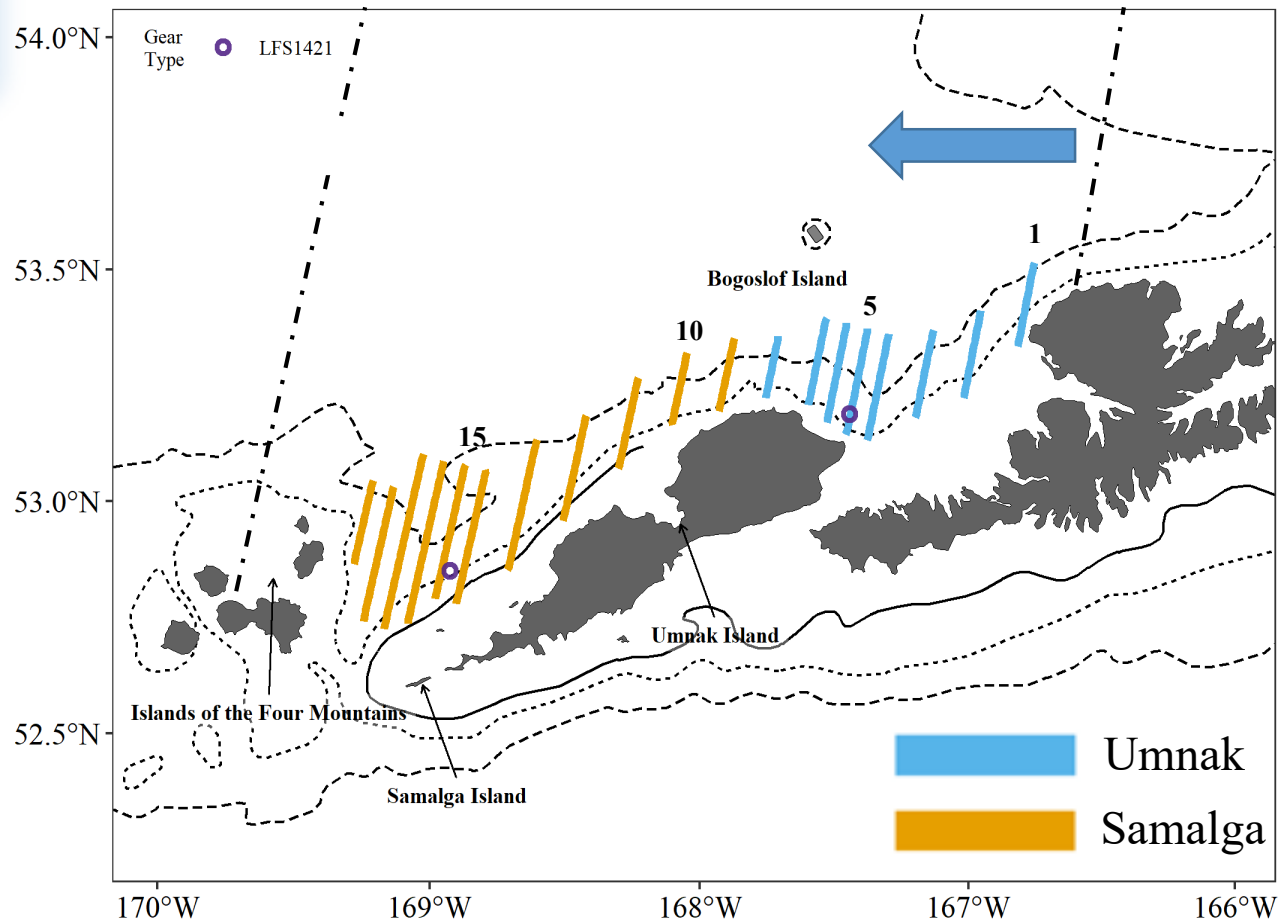


19 tracklines

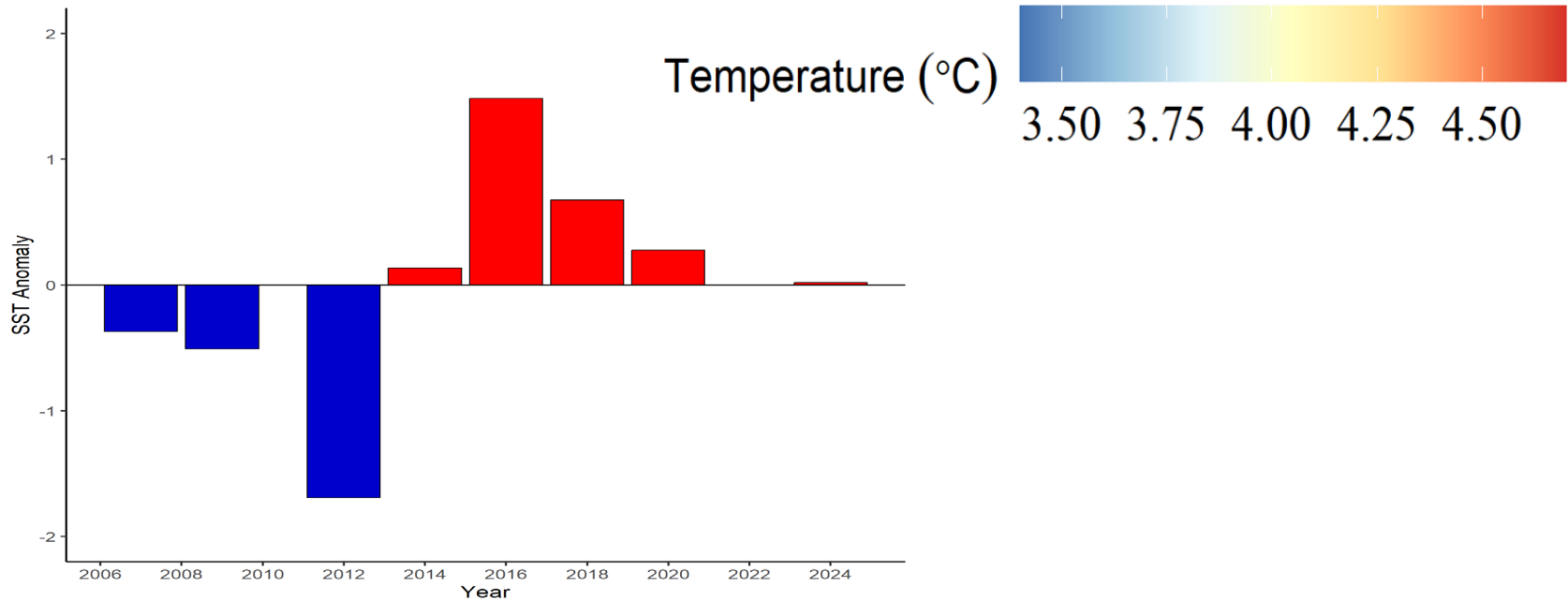
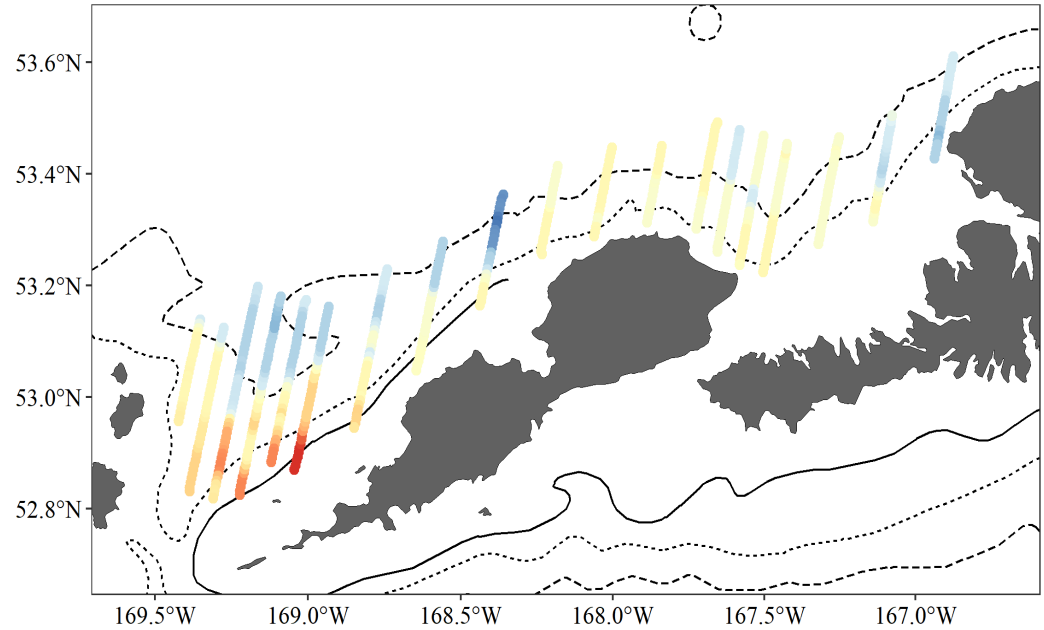
➤ Spaced 3 or 6 nmi

➤ 280 nmi total
distance

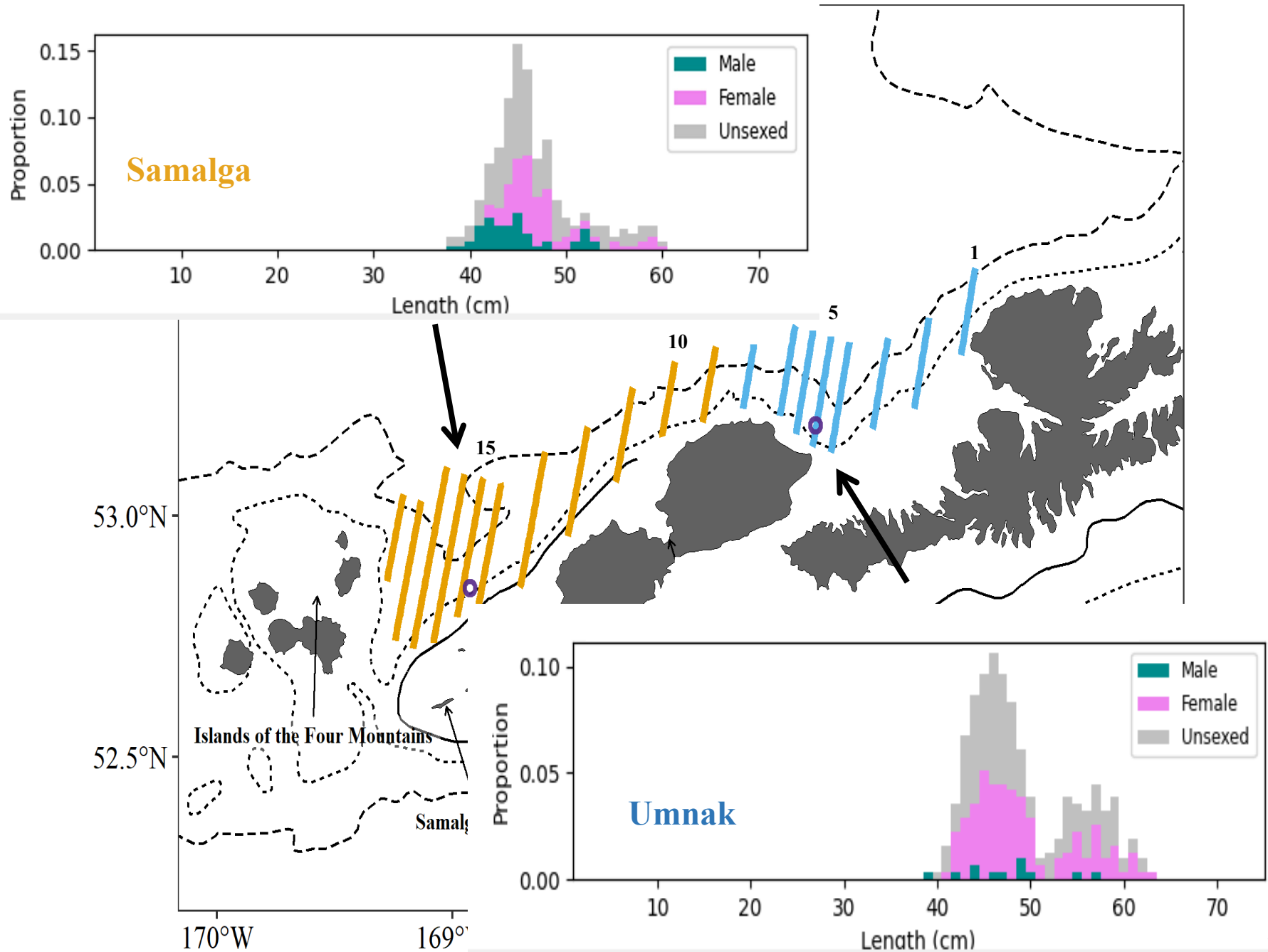
Two trawls



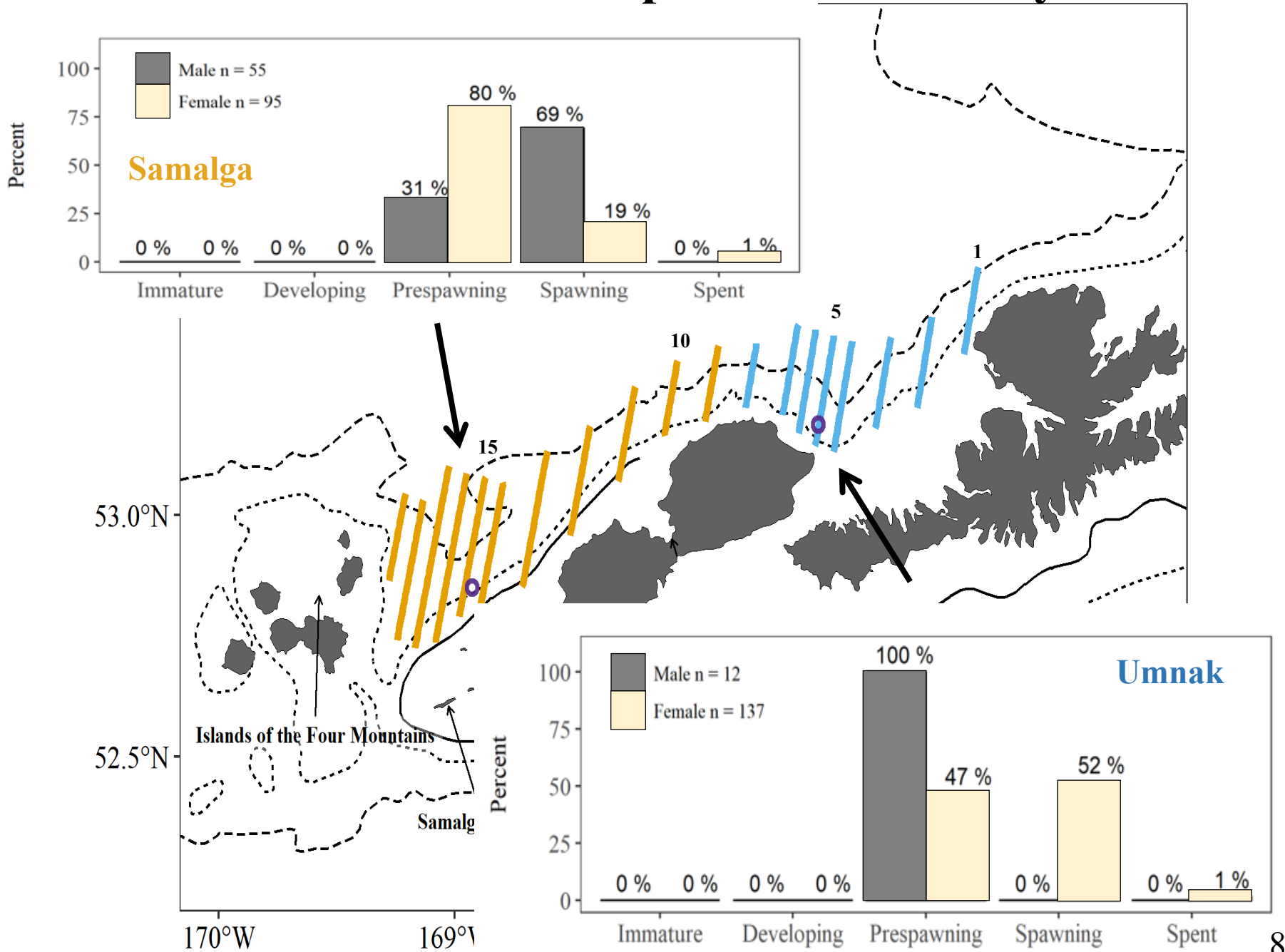
Sea surface temperatures



Pollock catch composition: Length distribution

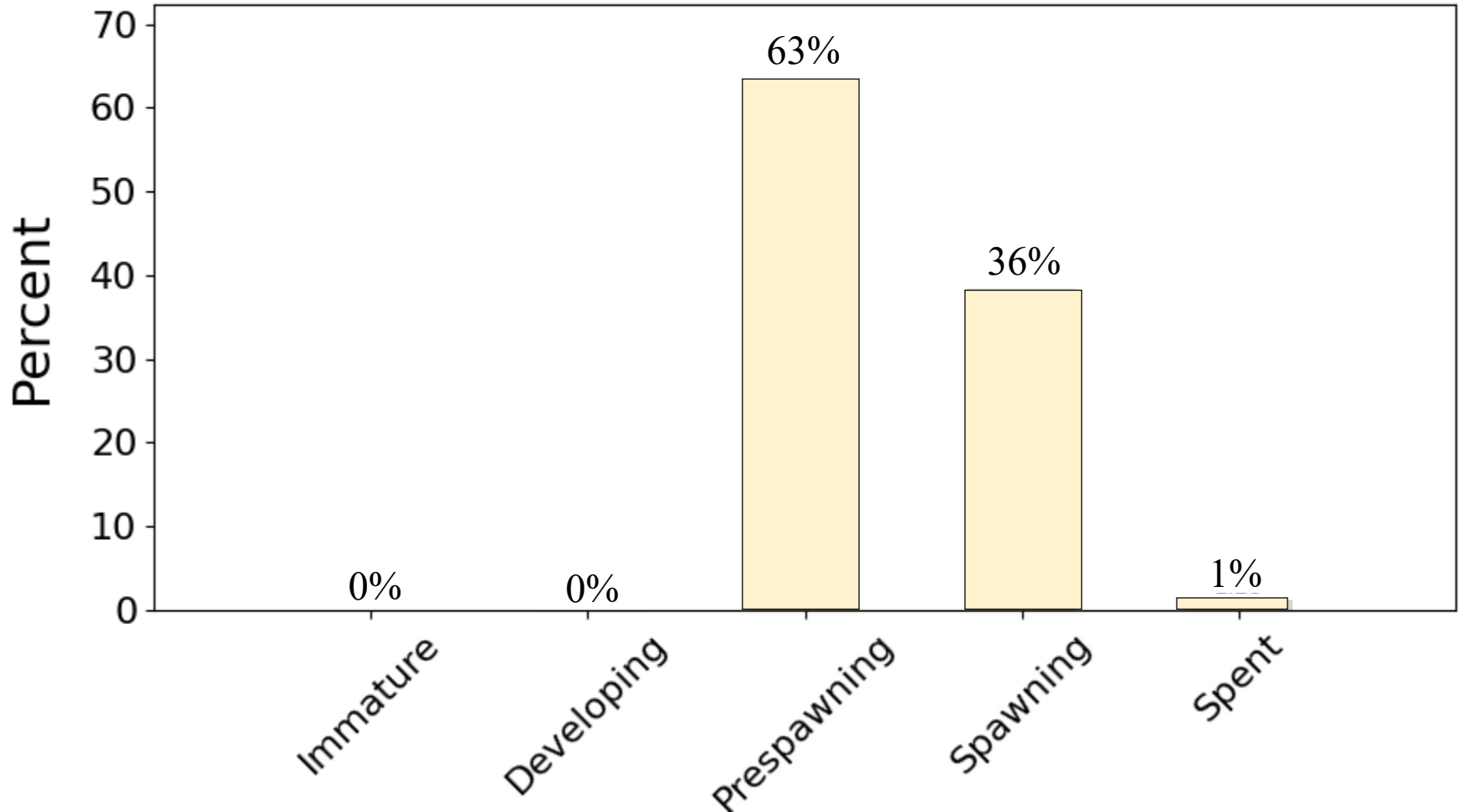


Pollock catch composition: Maturity

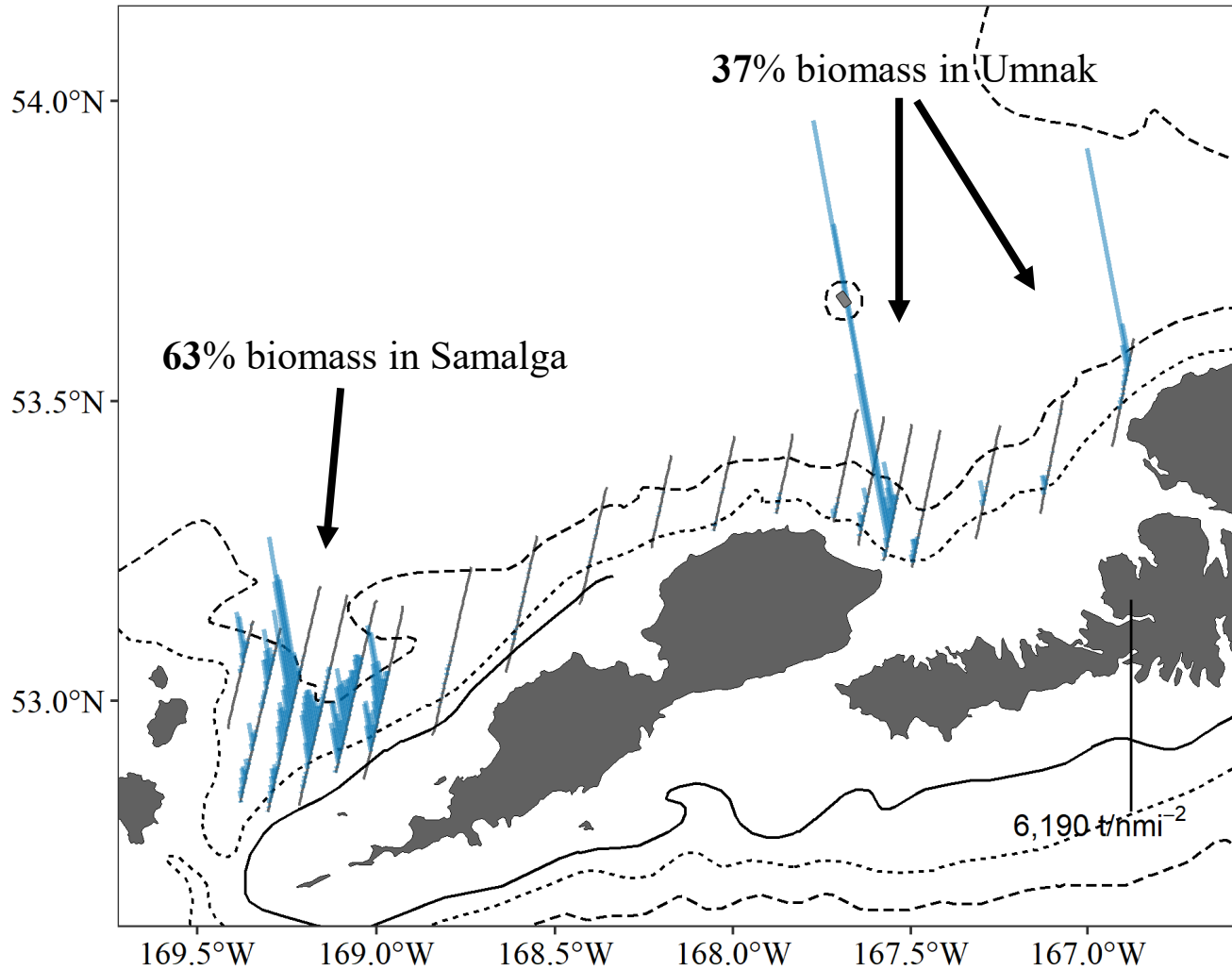


Pollock catch composition: Maturity

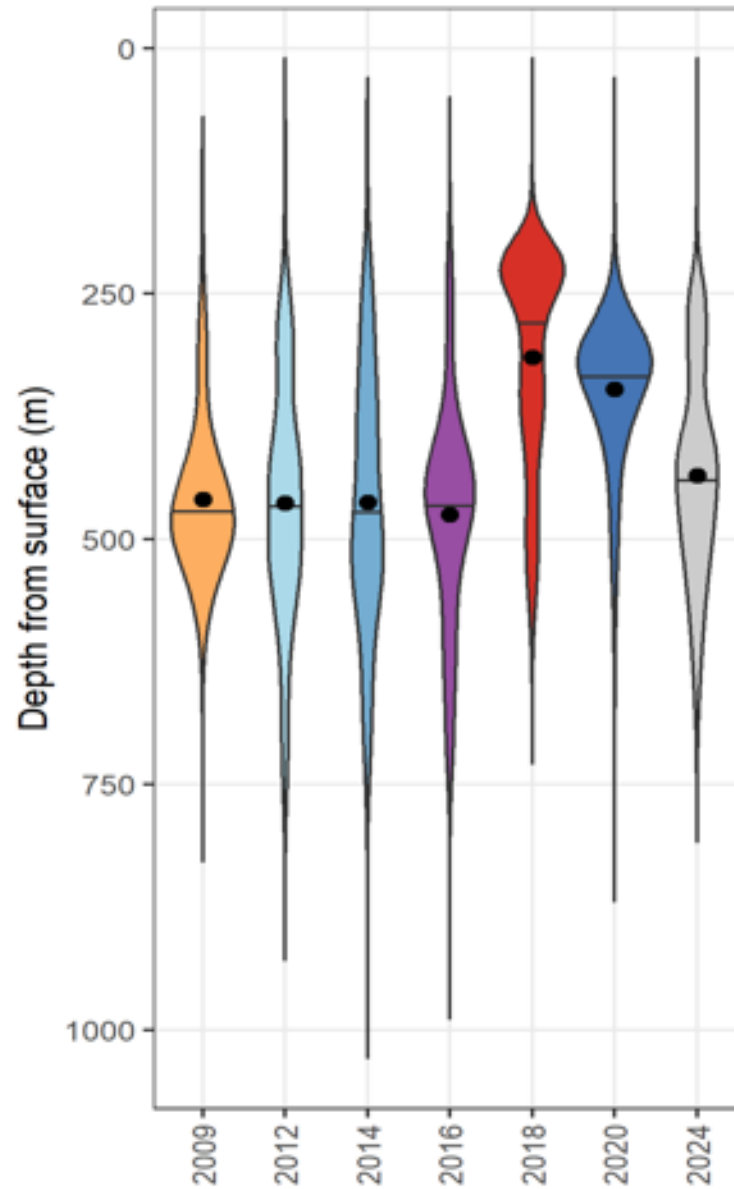
Overall female maturity weighted by abundance



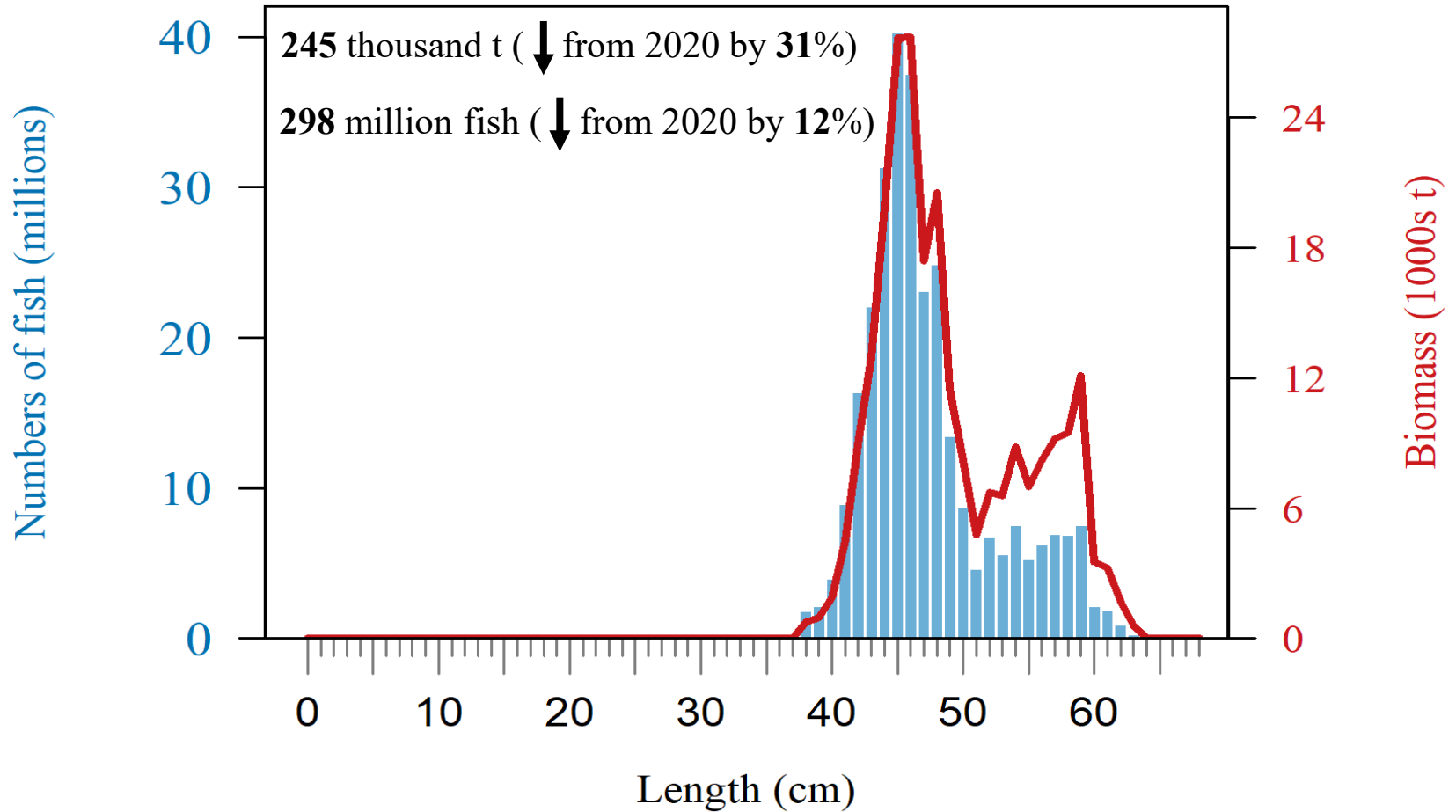
2024 pollock biomass distribution



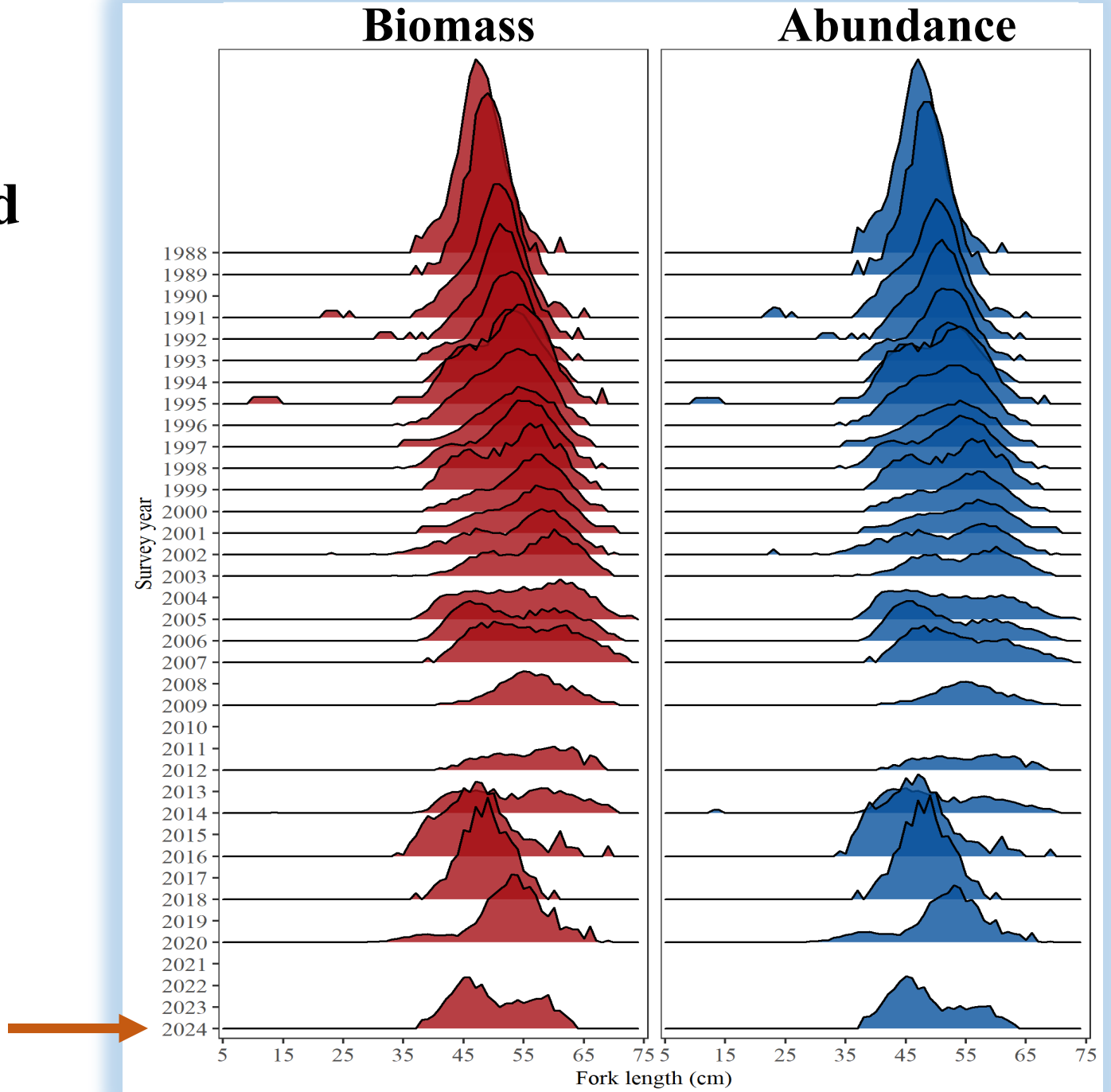
Adult pollock depth distribution 2009-2024



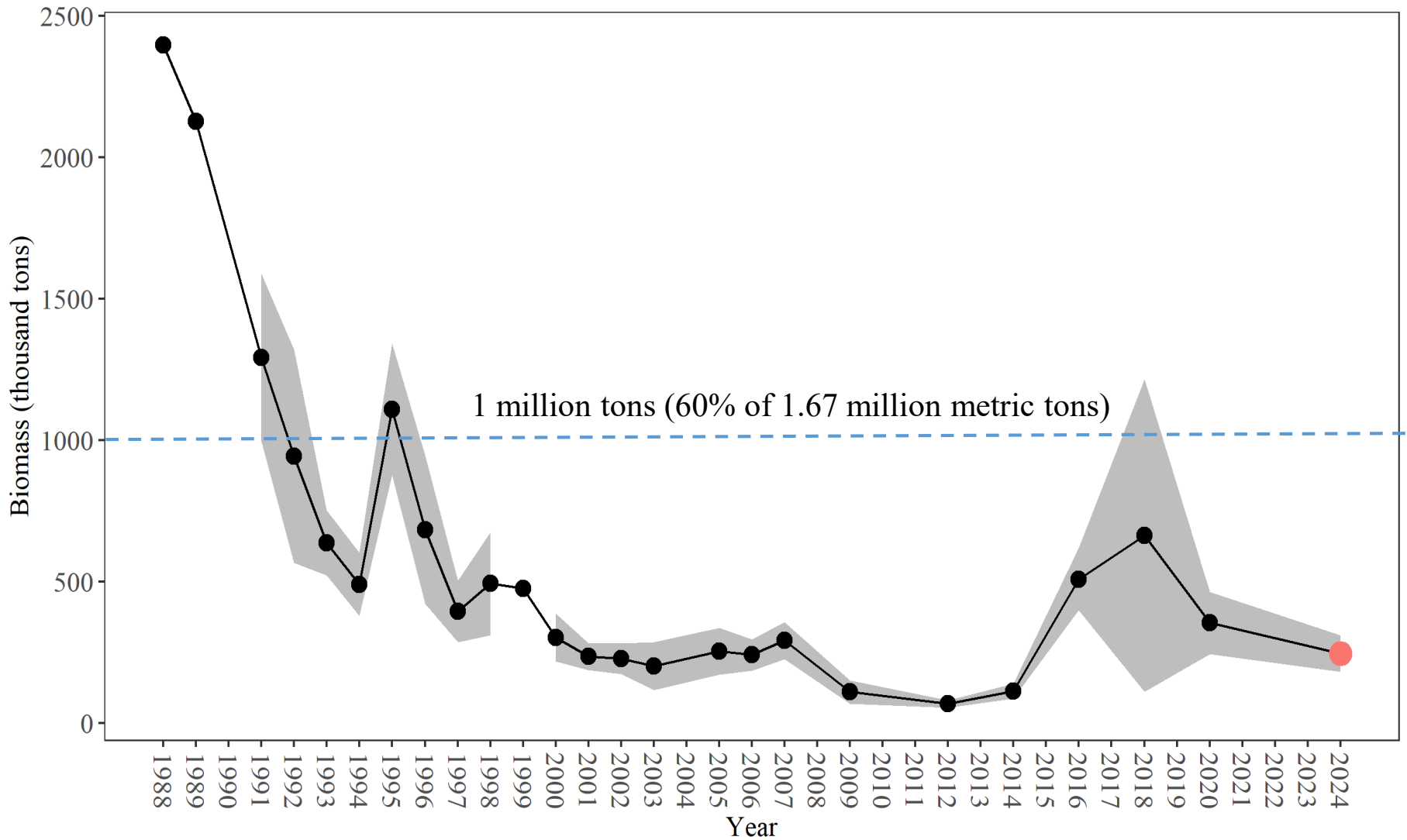
2024 pollock population at length



Historical pollock biomass and abundance at length



Historical biomass



Summary

- Most female adult pollock were pre-spawning (60%) suggesting survey timing was good
- Pollock were concentrated in dense aggregations both in Umnak (east) and in Samalga (west)
- Pollock abundance was estimated at **298 million fish**, with the biomass at 245 thousand t
- Estimate for 2024 is a **31% decrease from 2020**
- Next Bogoslof survey is planned for 2026

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Questions?

Historical biomass

