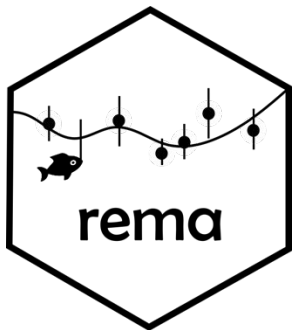




**NOAA
FISHERIES**

BSAI and GOA Grenadier: Model updates



November 2024
Joint Groundfish Plan Team Meeting

Kevin Siwicke

Outline

1. Reminder: Ecosystem Component on 4-year cycle

- Last assessment in 2020, non-target
- Unofficial biomass estimates (likely very conservative), no OFL, no ABC

2. Eastern Bering Sea

- 2020: average of last 3 EBS slope trawl surveys, last was 2016
- Move to REMA, add longline survey

3. Gulf of Alaska

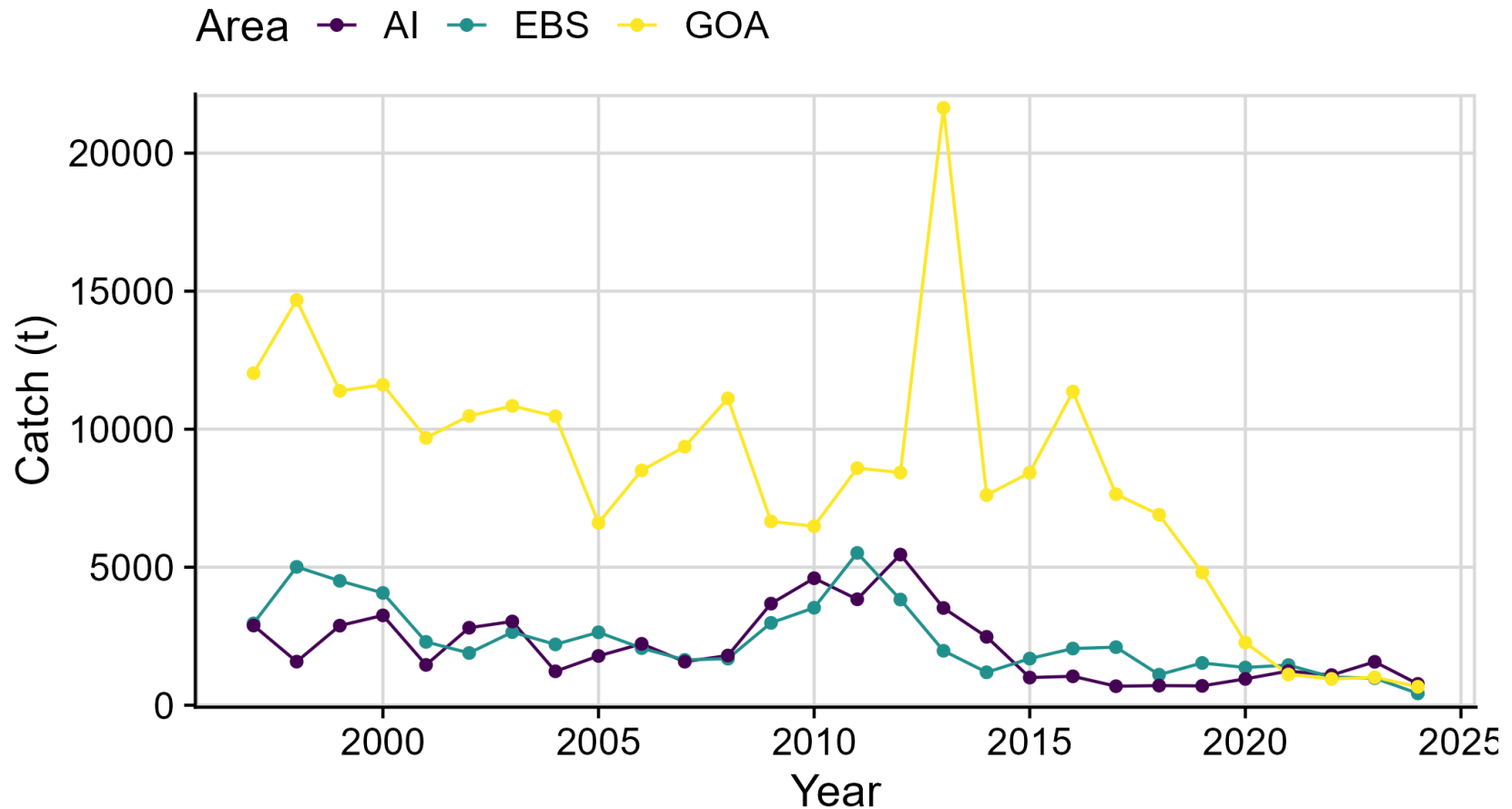
- 2020: ADMB random effects, 5-depth strata (5 process errors), GOA trawl survey only
- Move to REMA, lots of housekeeping, add longline survey

4. Aleutian Islands

- 2020: average of last 3 AI bottom trawl surveys (after lots of assumptions and corrections from the Longline Survey)
- Report relative indices with context

5. Feedback

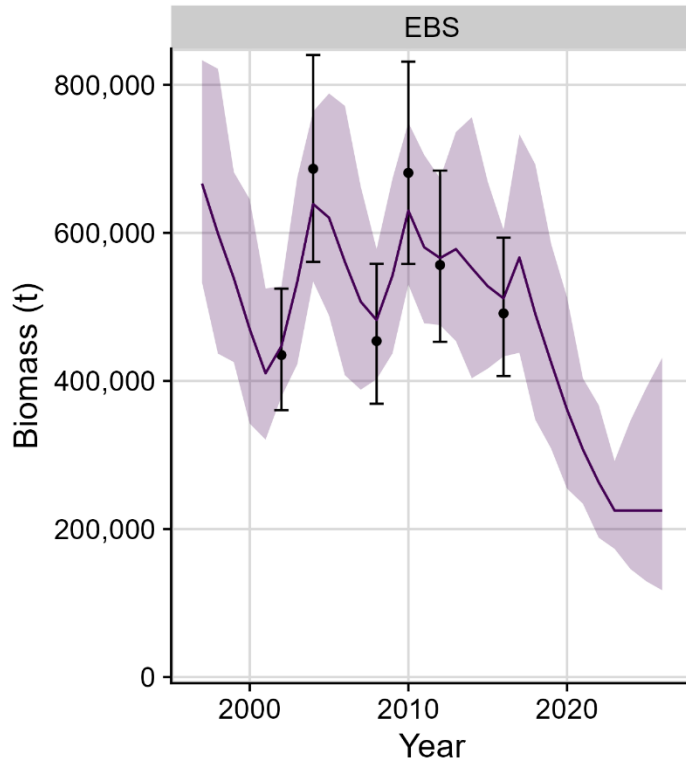
Grenadier Catch Trends



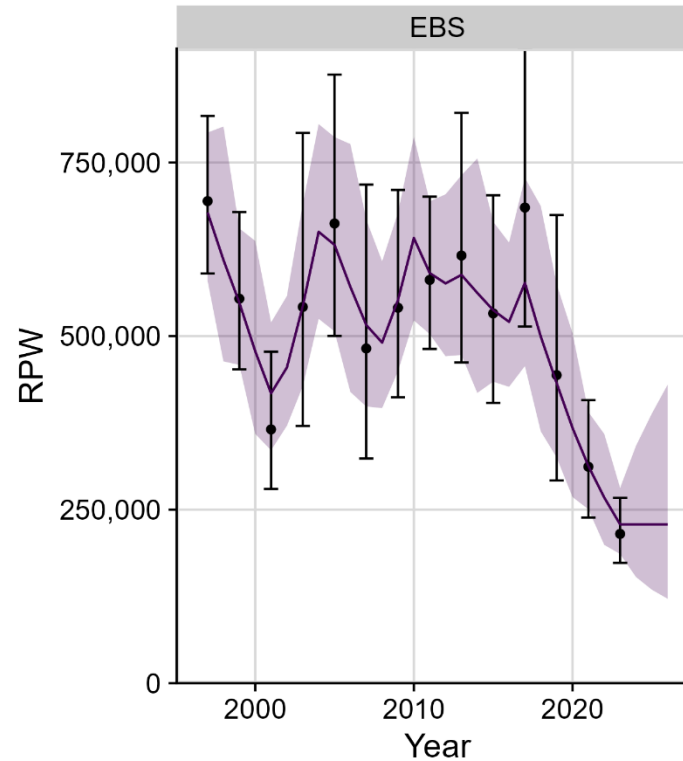
- 95% or more discarded by region in 2024
- Declines in GOA related to sablefish transition to pots

EBS: 2 survey, REMA

Trawl Survey



Longline Survey (Relative Population Weights)

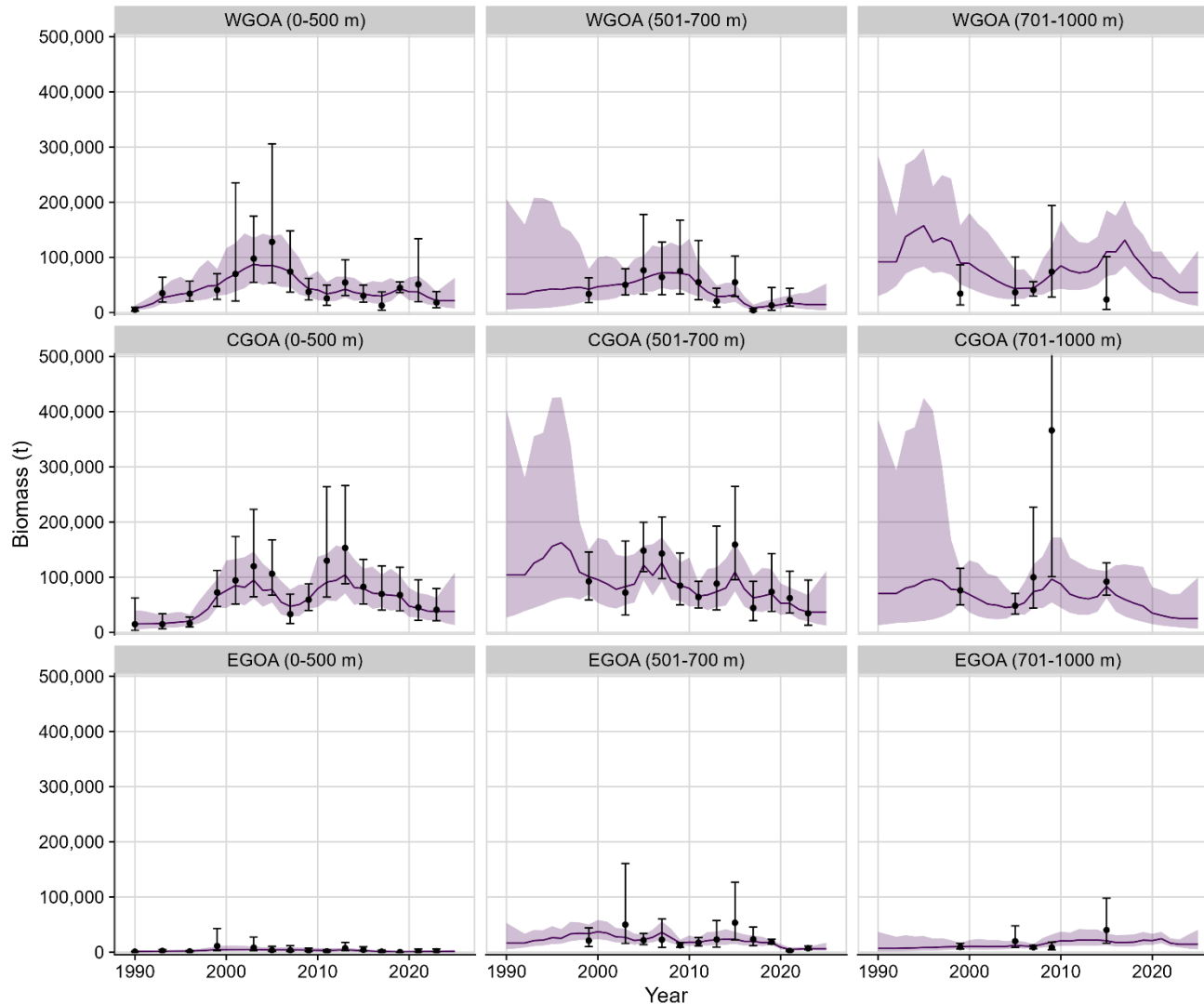


- 2025 biomass estimate: 224,816 t
- 2022/23 average catch: 1,001 t
- 2024* catch = 428 t

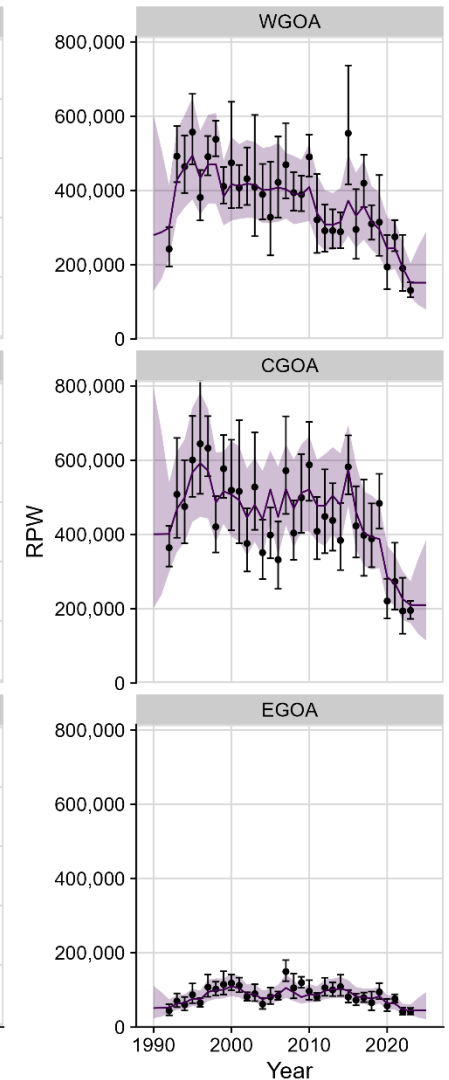
*Through Oct. 16, 2024

GOA: 2 survey, REMA

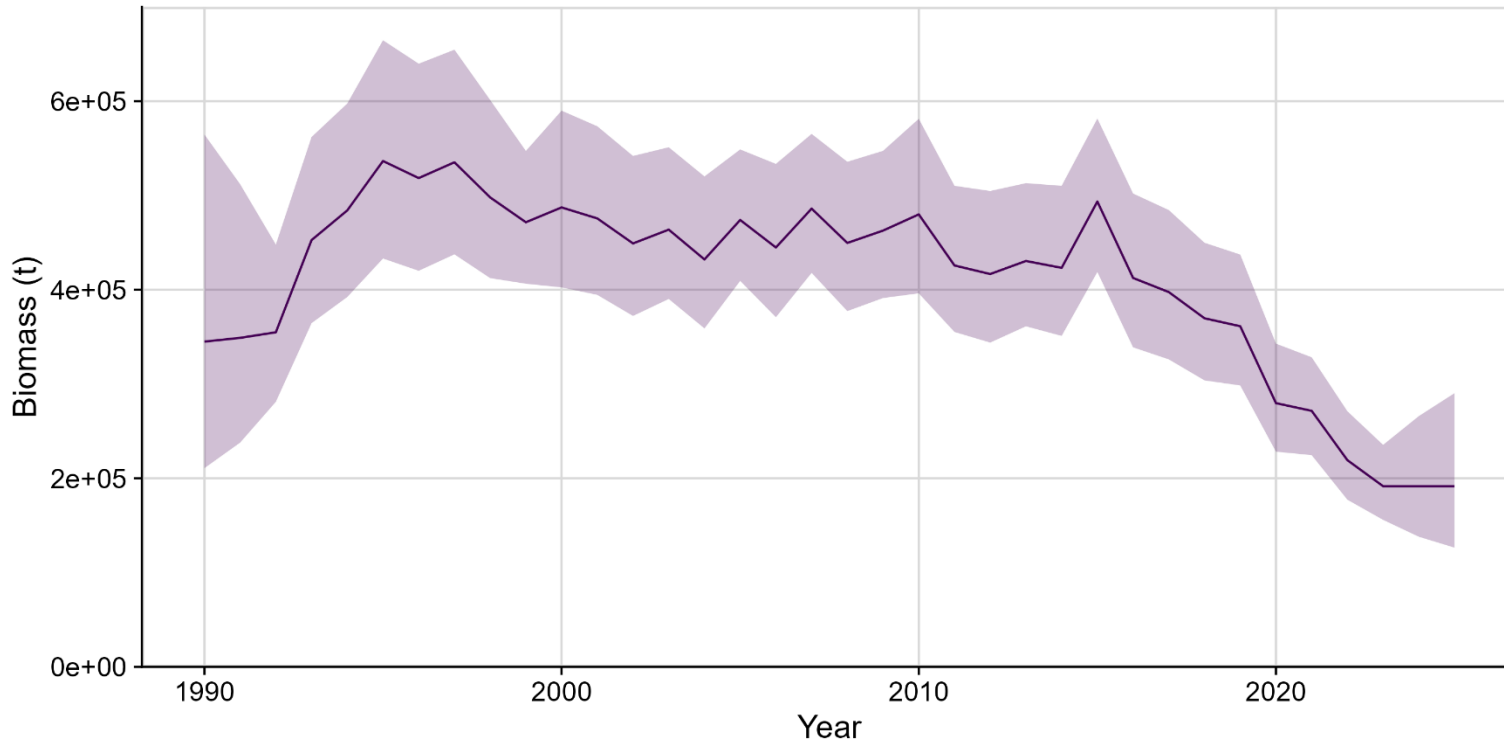
Trawl Survey



Longline Survey



GOA-wide



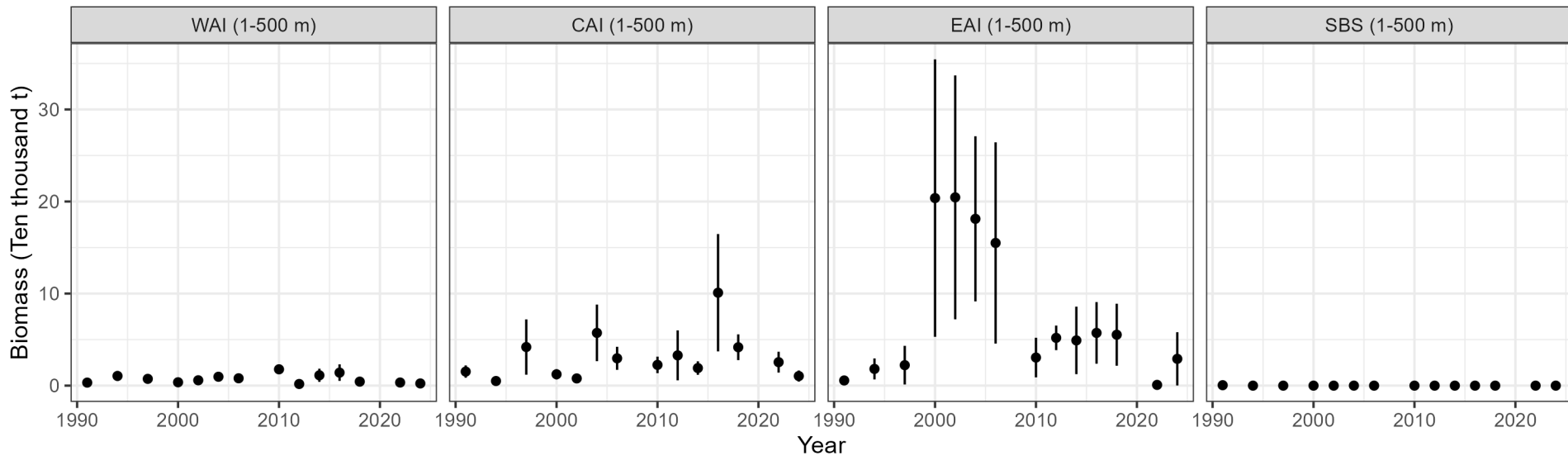
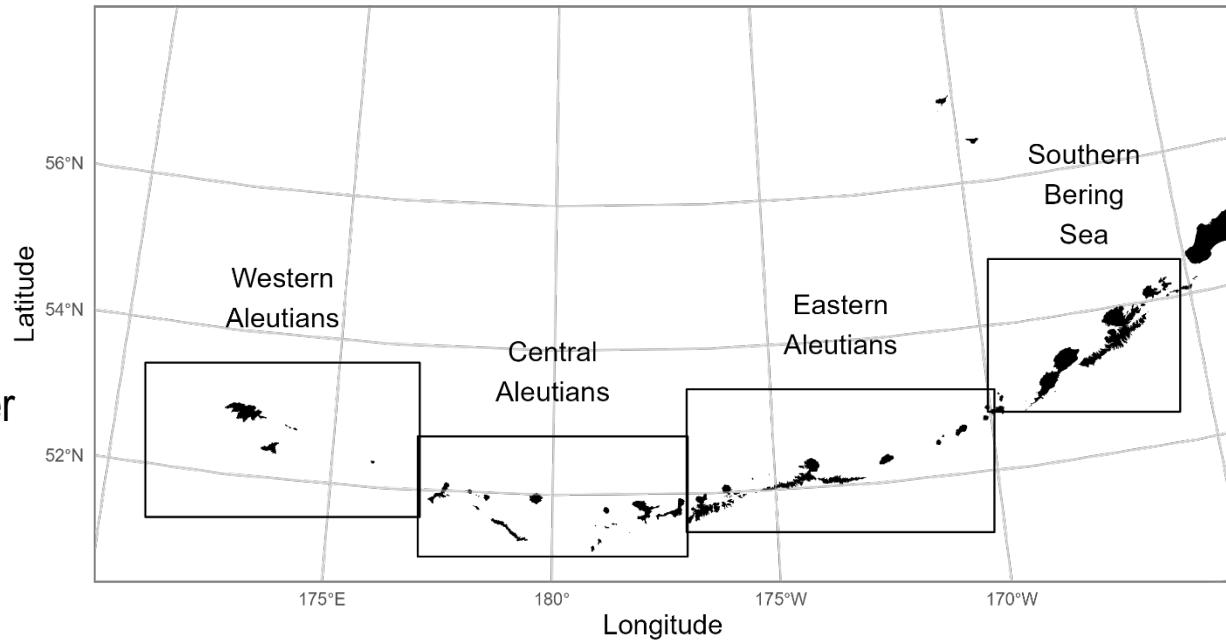
- 2025 biomass estimate: 191,650 t
- 2022/23 average catch: 983 t
- 2024* catch = 669 t

*Through Oct. 16, 2024

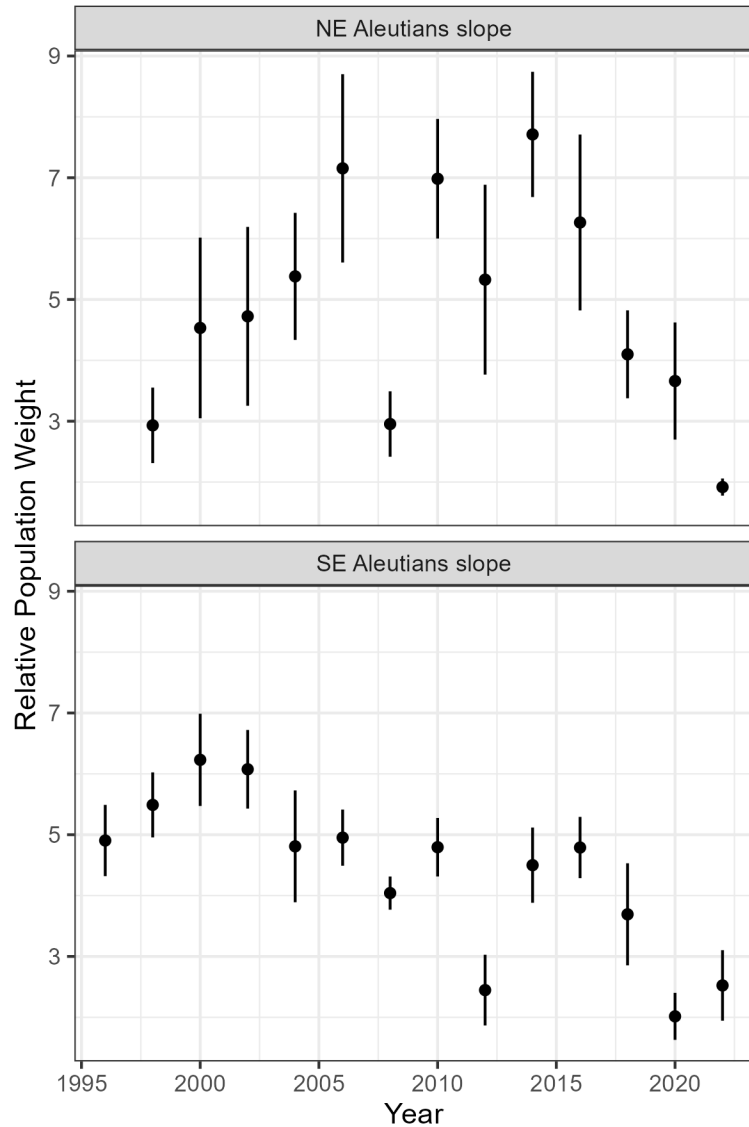
AI: Trawl Survey

- Max depth ~ 500 m, but grenadier are generally deeper than this

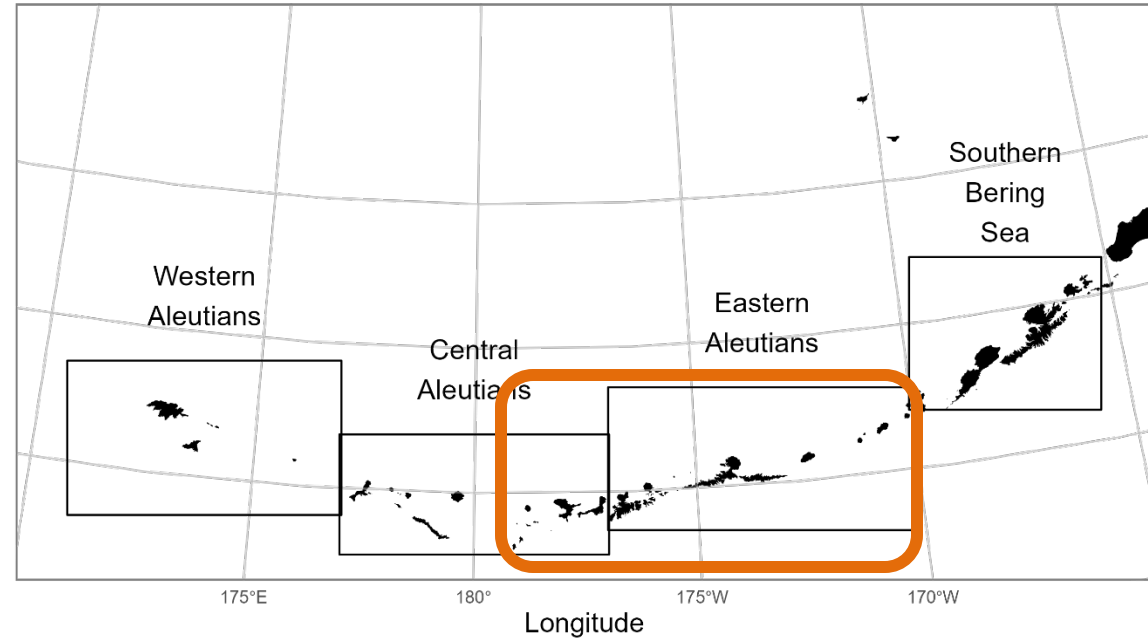
Aleutian Islands



AI: Longline Survey

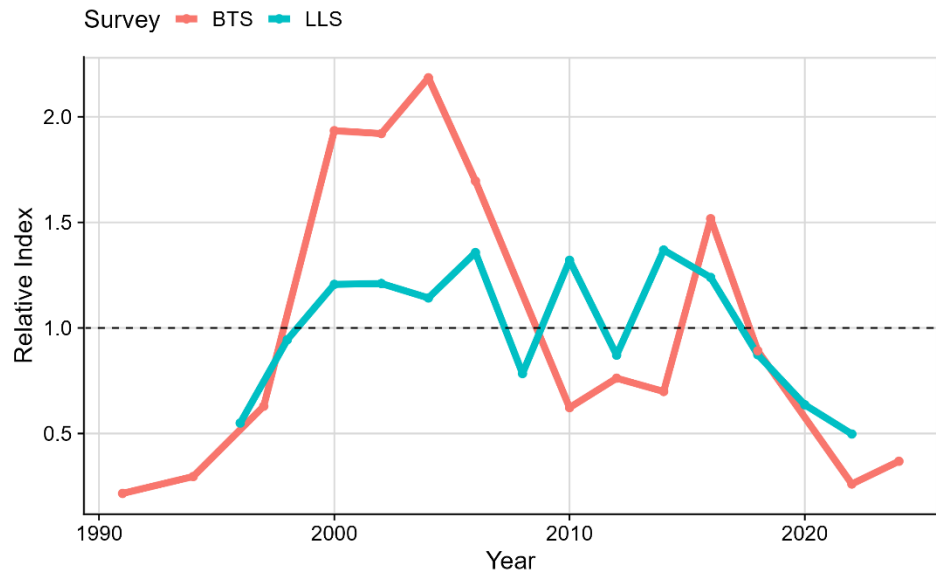


Aleutian Islands

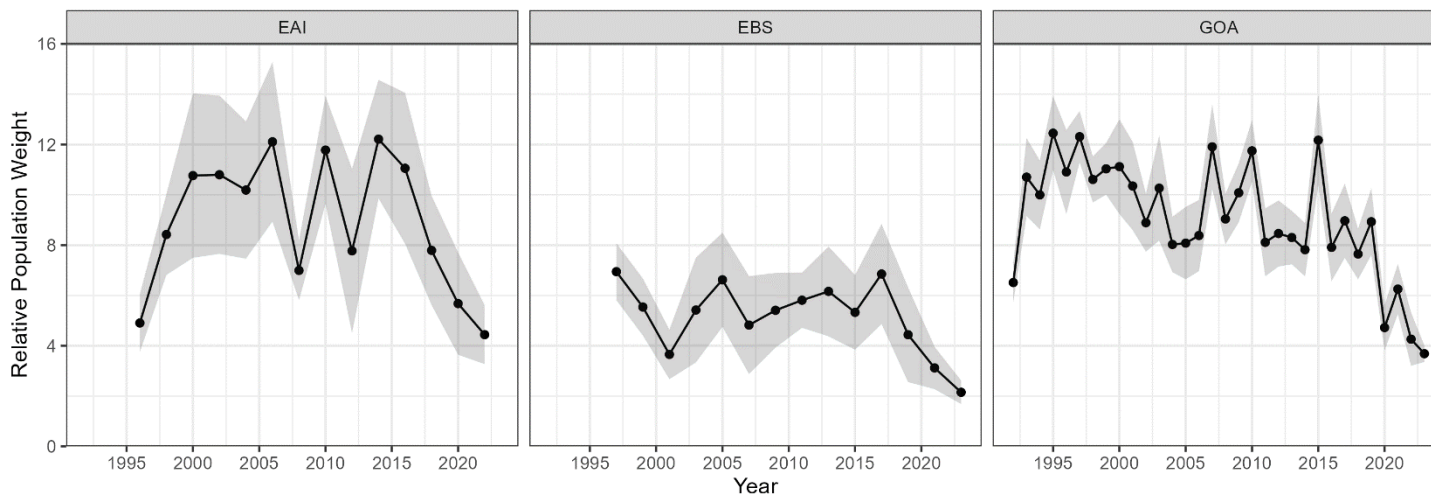


- Goes deeper, but limited spatial coverage
- Depth strata 401 to 600 m does not readily divide at 500 m to directly compare with trawl

AI: Relative Indices (2024)

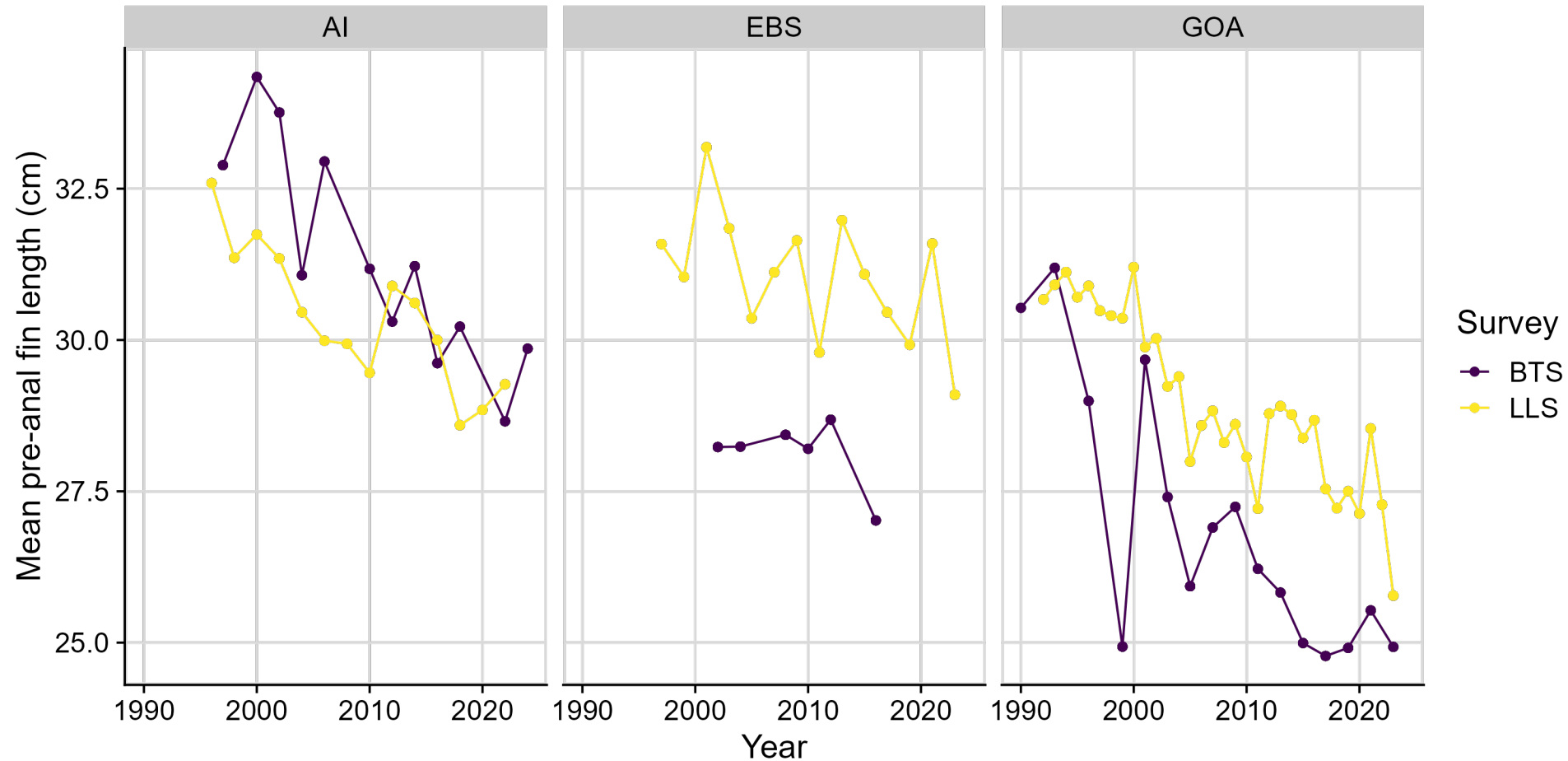


- 2025 biomass likely higher than EBS or GOA
- 2022/23 average catch: 1,332 t
- 2024* catch = 772 t



*Through Oct. 16, 2024

Declining length trend



Thank You

**Suggestions or
Questions?**

