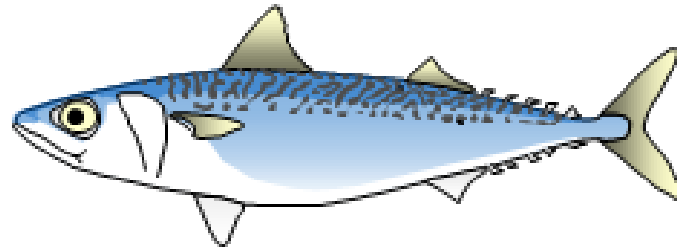


Recent fishery and stock status of chub mackerel from Japan

Up to Feb 2025

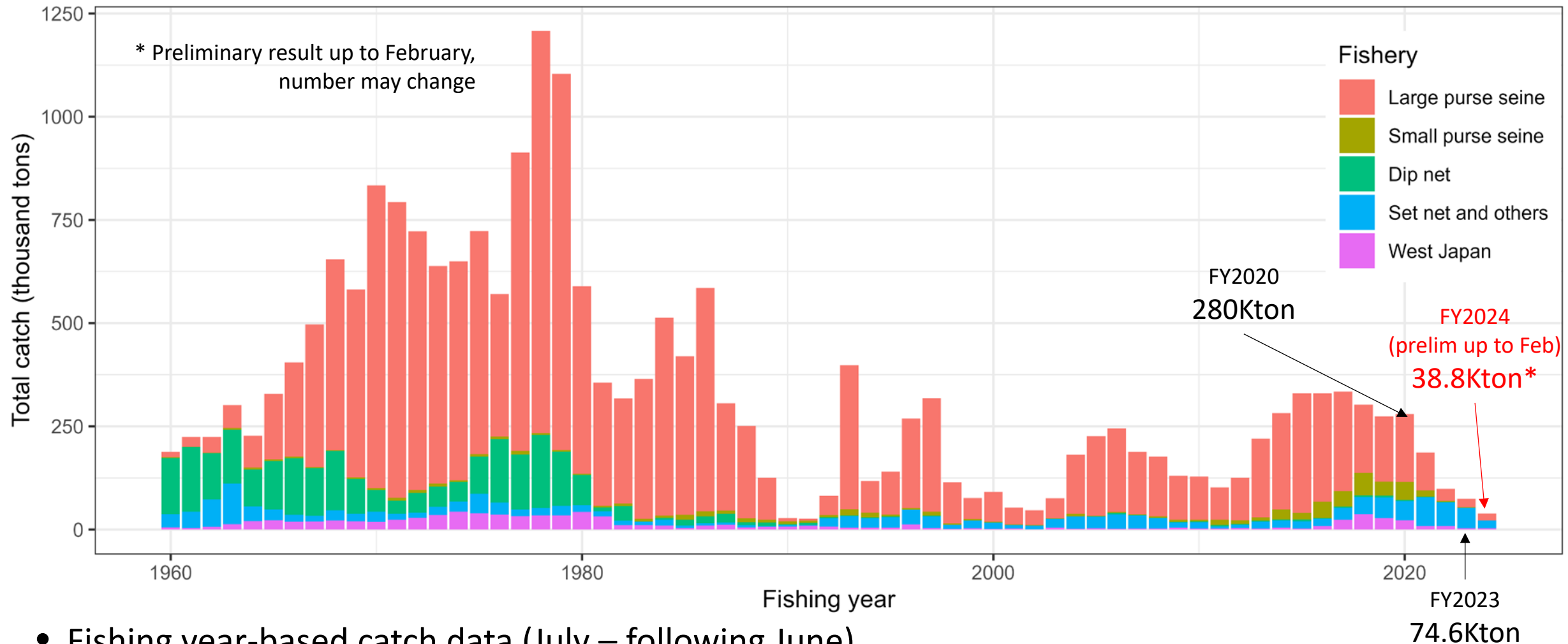


NPFC-2025-TWG CMSA11, Yantai

Kazunari HIGASHIGUCHI, Akihiro MANABE, Ryuji YUKAMI, Shota NISHIJIMA

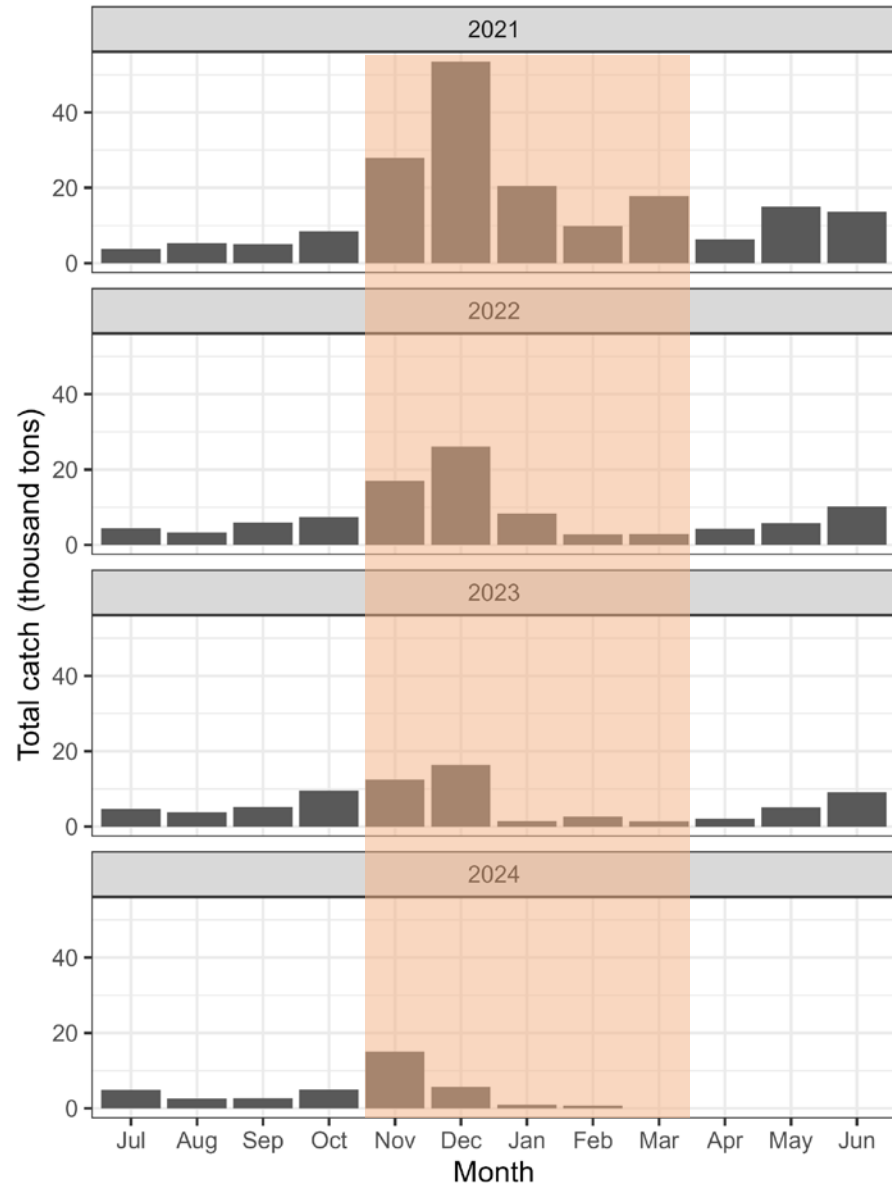
Fisheries Research Agency (FRA) JAPAN

Catch by Japanese fisheries (up to Feb 2025)



- Fishing year-based catch data (July – following June)
- **Large purse seine** has historically been the primary fishing method (20.4 K ton in FY2023)
- **Set net and others** are relatively increasing in their share of the total catch (48.6 K tons in FY2023)

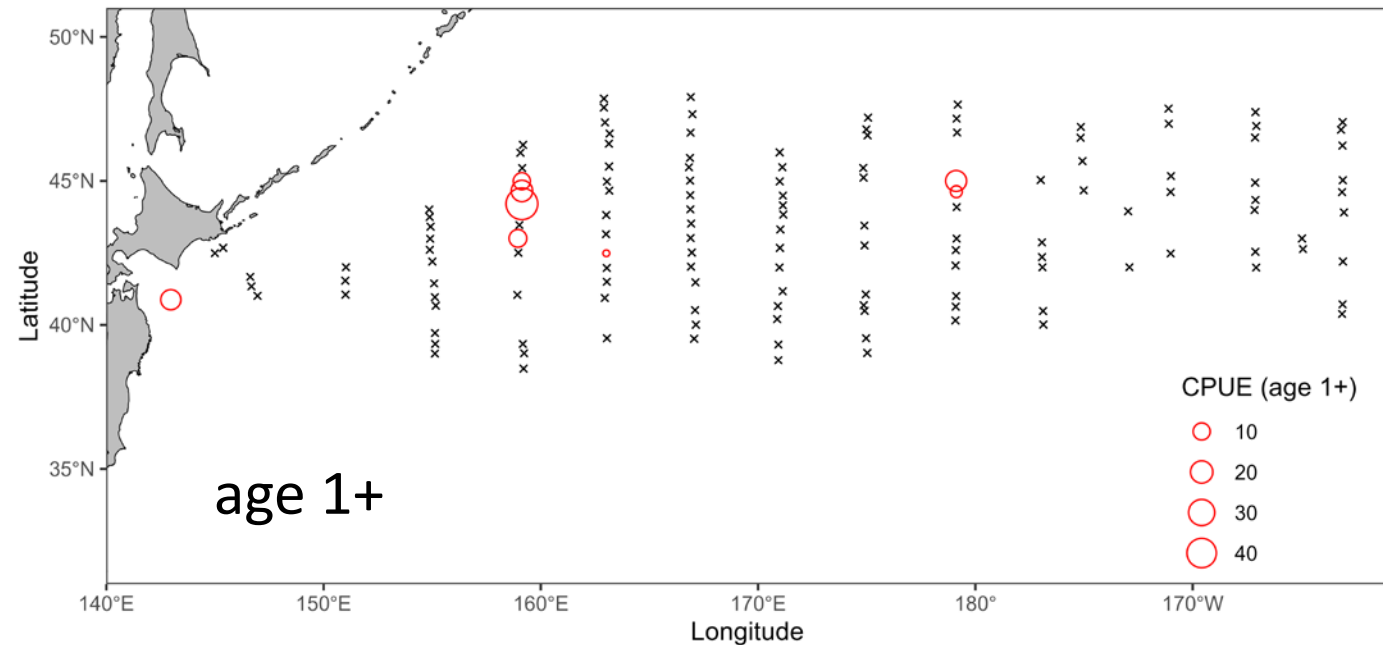
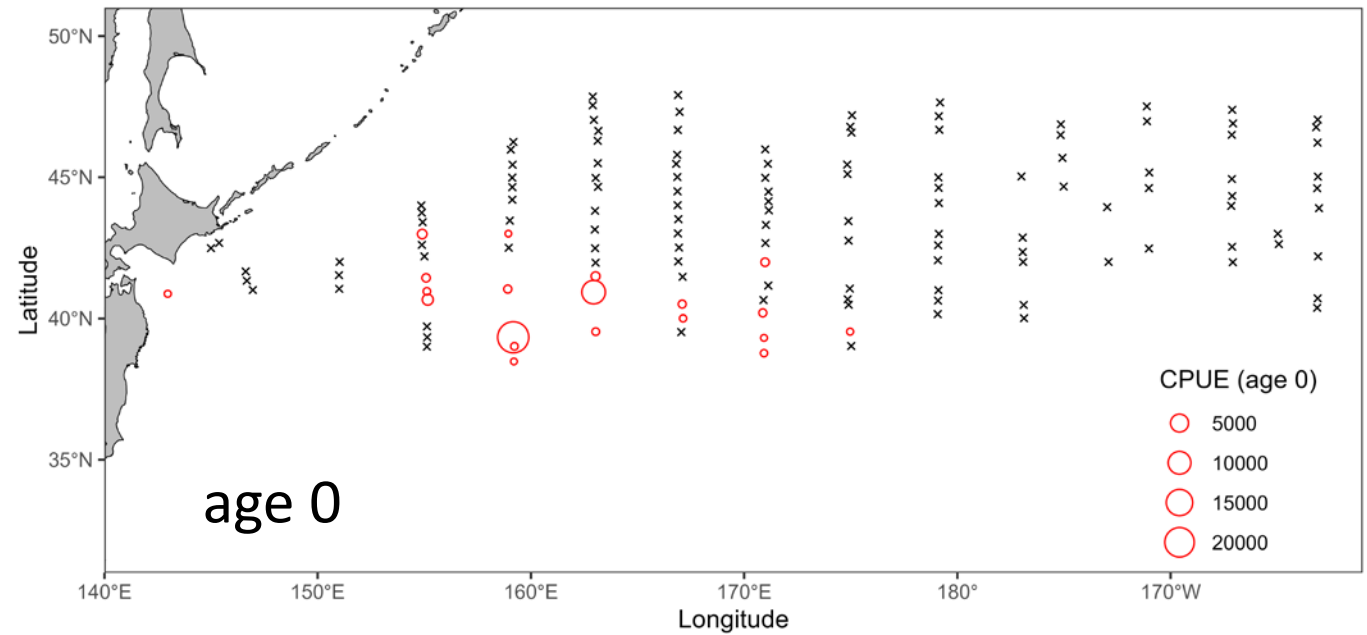
Monthly catch up to FY2024



- Substantial catch between November and March
- Highest catch is observed in November or December
- The peak catch is decreasing -> 15.1 thousand tons in November FY2024

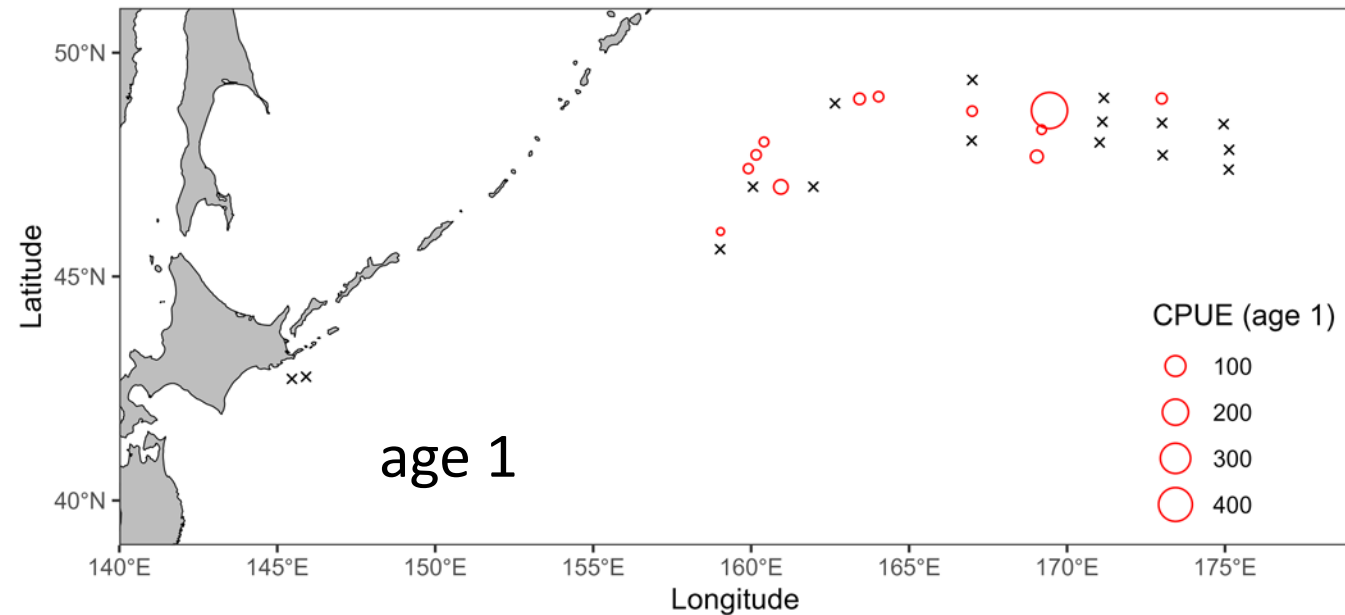
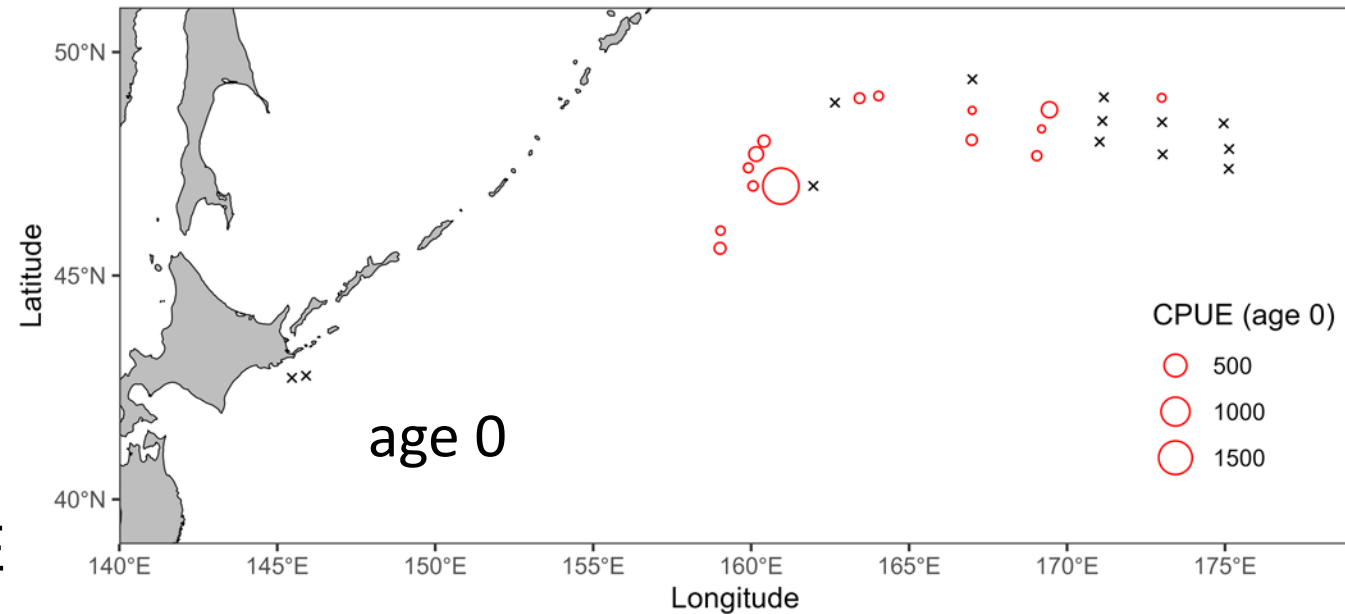
Summer survey (2024CY)

- Age 0 fish appeared between 150E-170E
- Small number of age 1 fish was observed around 160 E
- Nominal CPUE was generally low during the summer survey of the 2024 CY

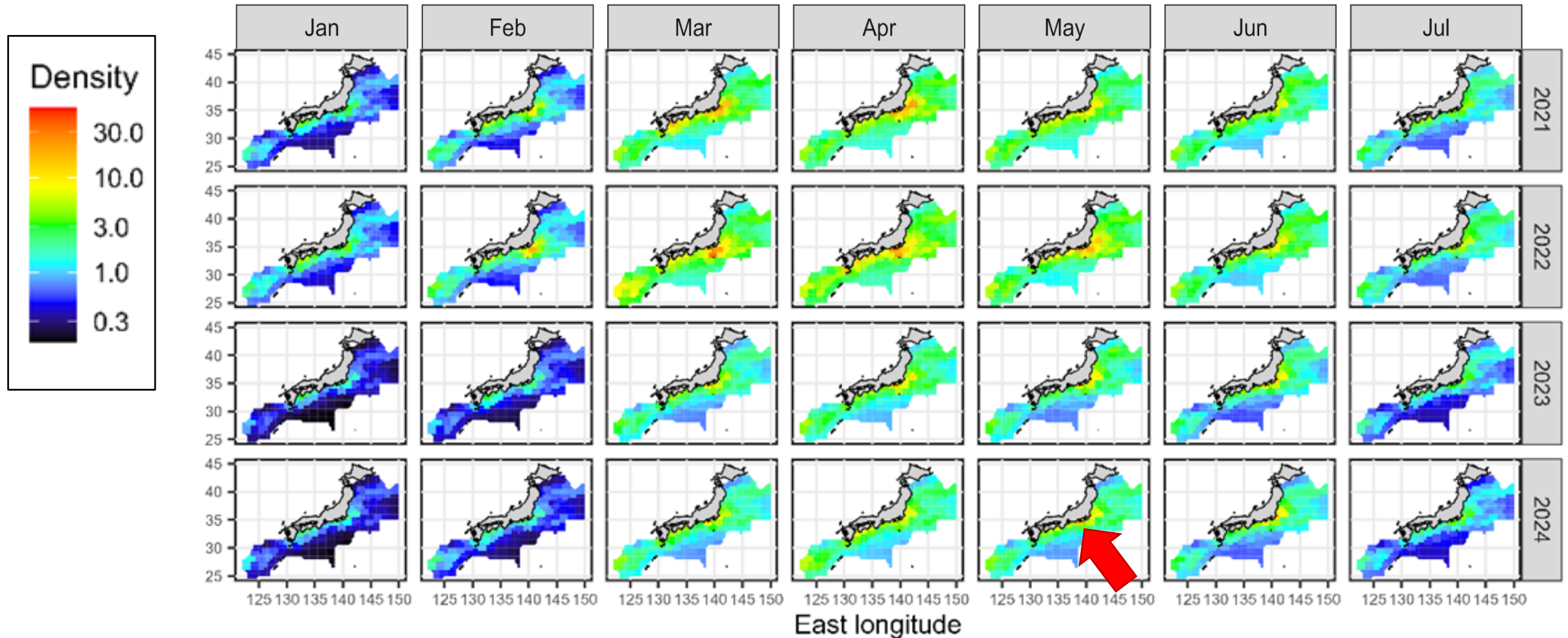


Autumn survey (2024CY)

- Limited survey point for west of 160E
- Still showing broad distribution to 170E
- Due to adverse weather conditions, the survey in the coastal area was not conducted

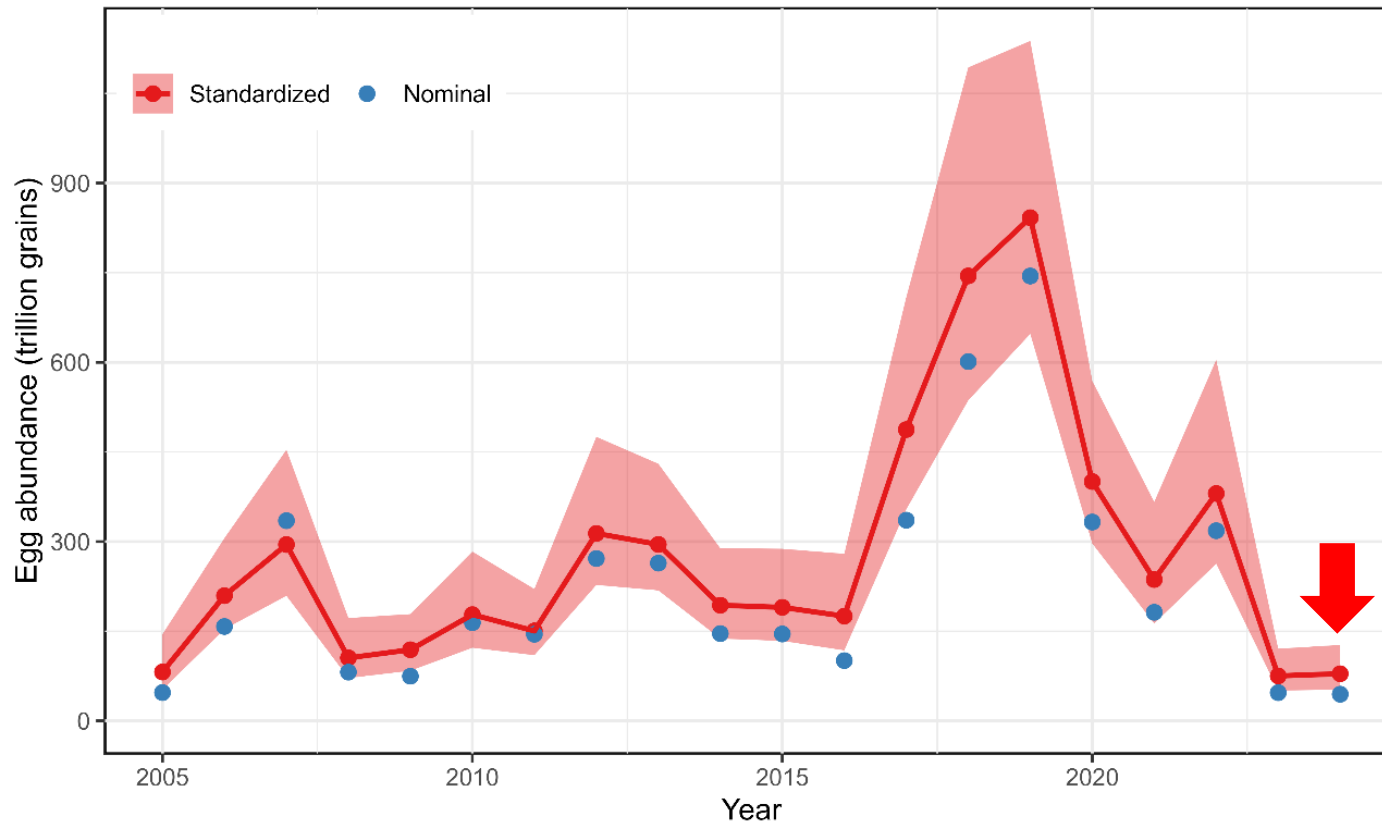


Egg survey (2024CY)



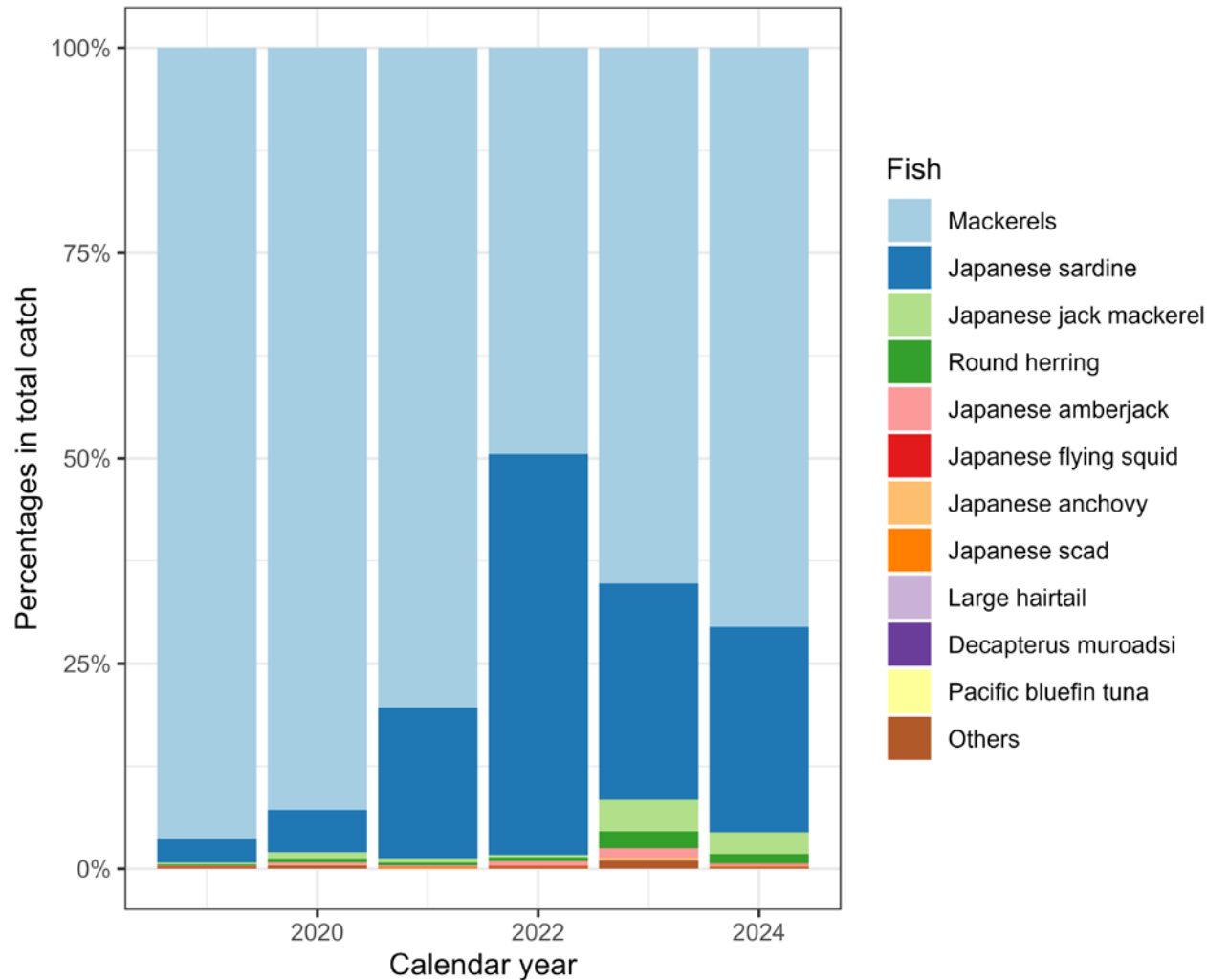
- Egg density of 2024 exhibited the center of egg density exists around Izu Islands
- Egg density has remained low since 2023

Egg survey (2024CY)



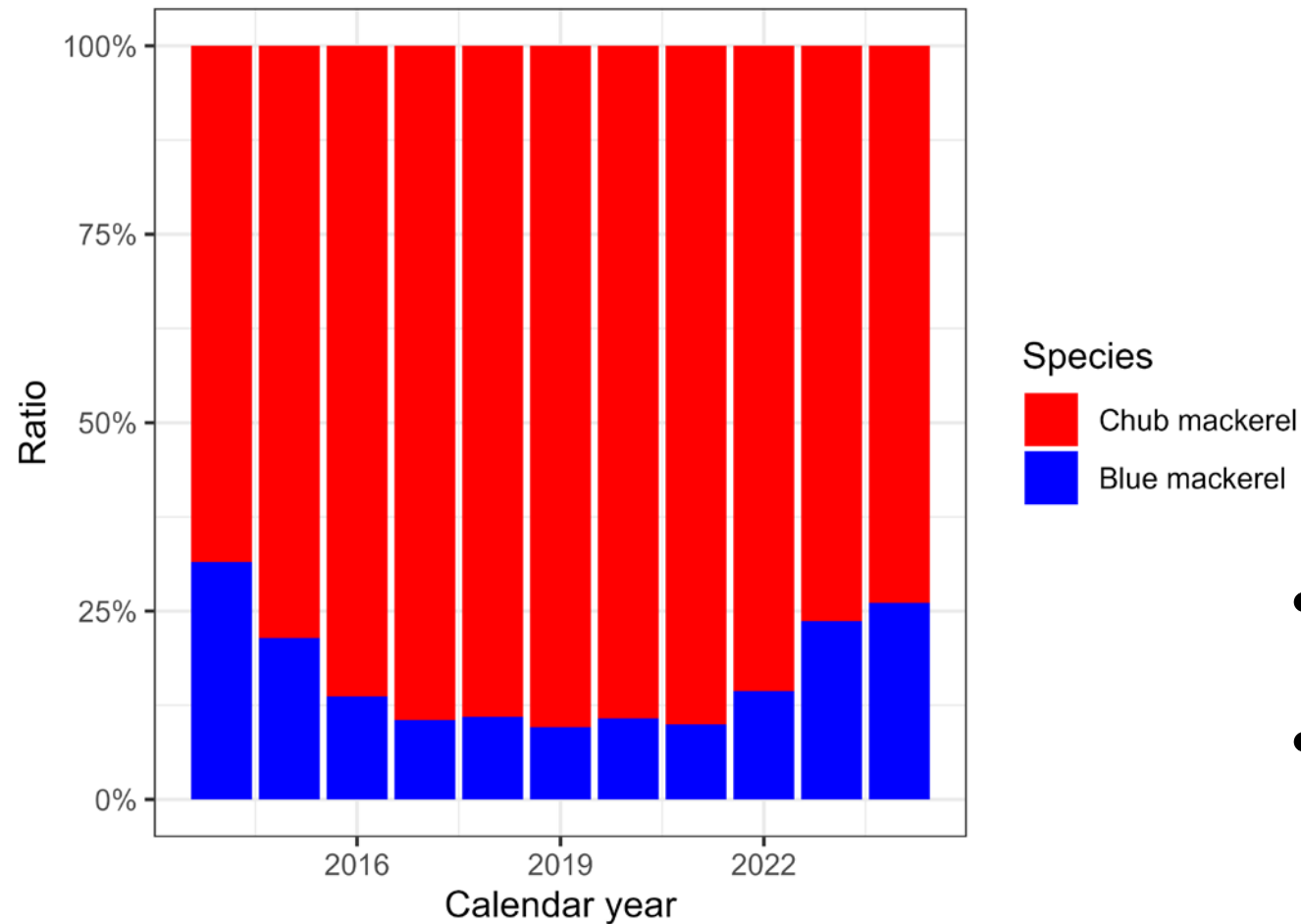
- Egg abundance has been low since 2023 CY
- Suggests the level of reproductive event was low in 2024 CY

Bycatch information (Large purse seine)



- Historically significant proportion of the CM catch coming from large purse seine
- Catch records including mackerels catch were extracted from logbook
->Species composition was examined
- Statistics only reported the combined total catch of CM and blue mackerel
- Japanese sardine is the most commonly caught species with mackerels

Chub–blue mackerel ratio



Calendar year	Chub ratio
2021	90.0%
2022	85.6%
2023	76.3%
2024	73.9%

- Mean ratio (2014–2024): 83.4%
- The ratio of chub mackerel has been decreasing in recent years