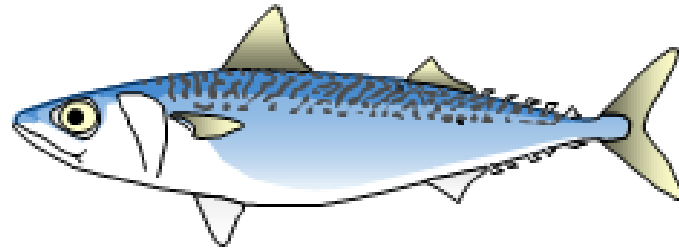


Recent fishery and stock status of chub mackerel from Japan



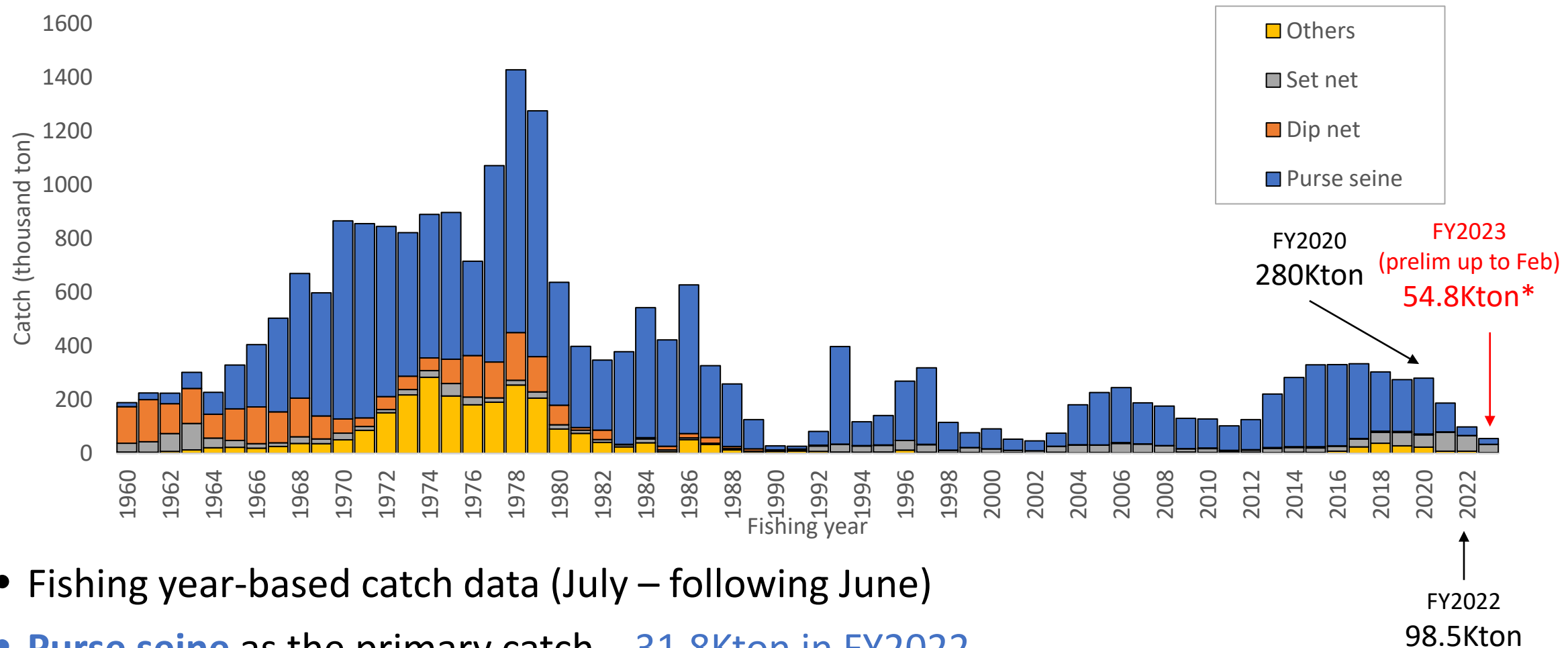
Up to Feb 2024

NPFC-2024-TWG CMSA09, Yokohama, Japan

Akihiro MANABE, Ryuji YUKAMI, Shota NISHIJIMA

Fisheries Research Agency (FRA) JAPAN

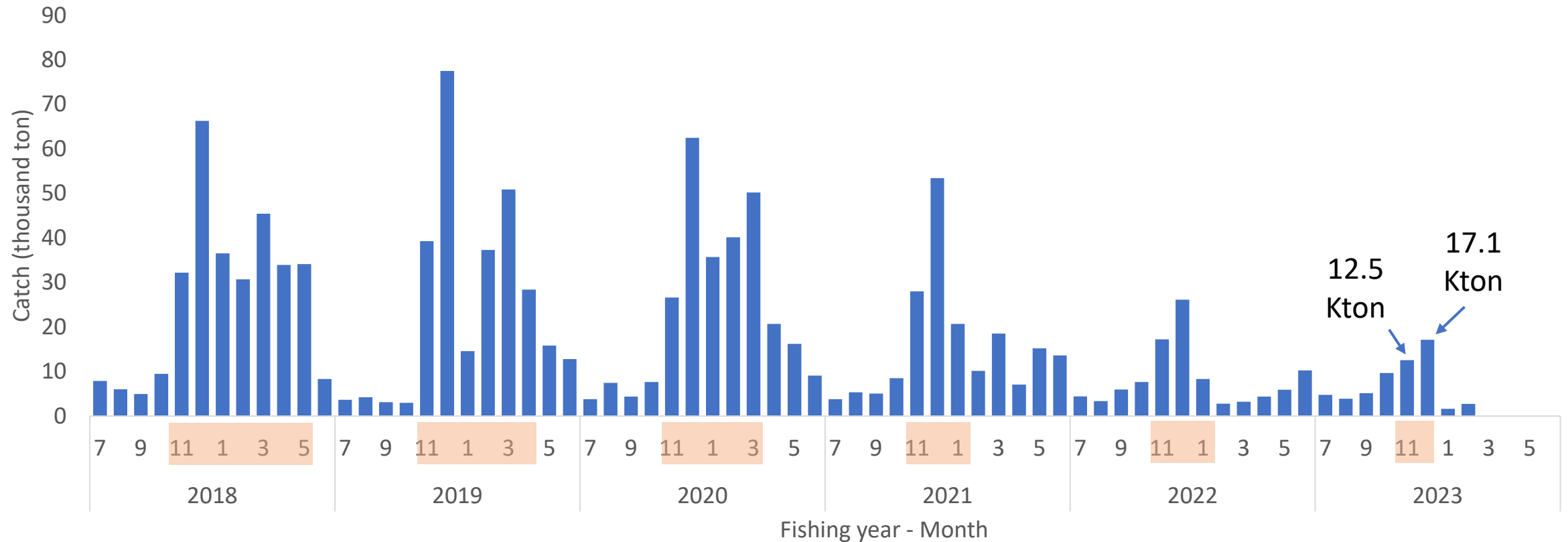
Catch by Japanese fisheries (up to Feb 2024)



- Fishing year-based catch data (July – following June)
- **Purse seine** as the primary catch – 31.8Kton in FY2022
- Catch in FY2023 (up to Feb 2024) is 54.8 thousand tons* so far
- About 75% of the equivalent months (Jul-Feb) in FY2022

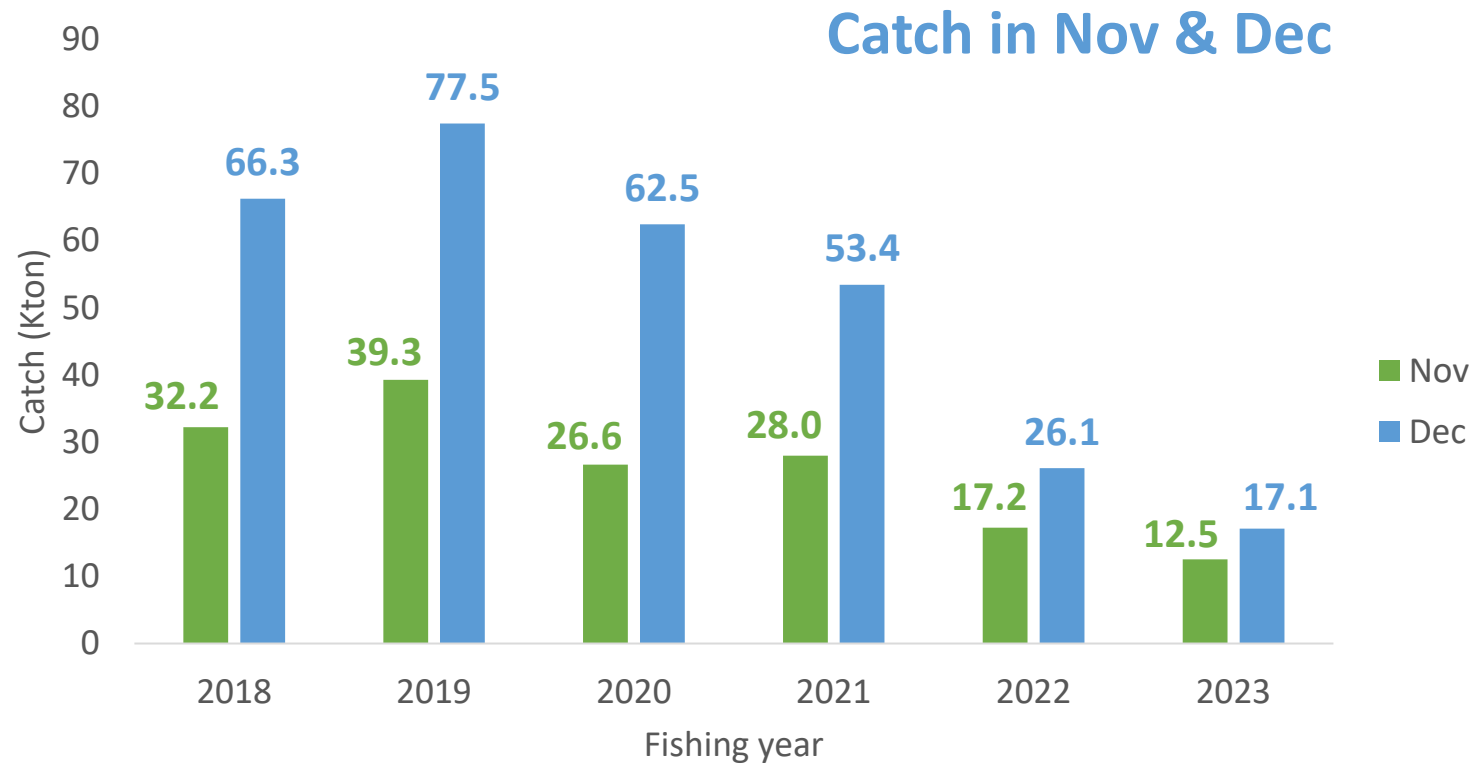
* Preliminary result up to Feb, number may change

Monthly catch up to FY2022



- Substantial catch between **November and spring months**
- Typically, catch in November tended to be high, but not in FY2023 -> 12.5Kton
- The peak catch is decreasing -> 17.1Kton in FY2023

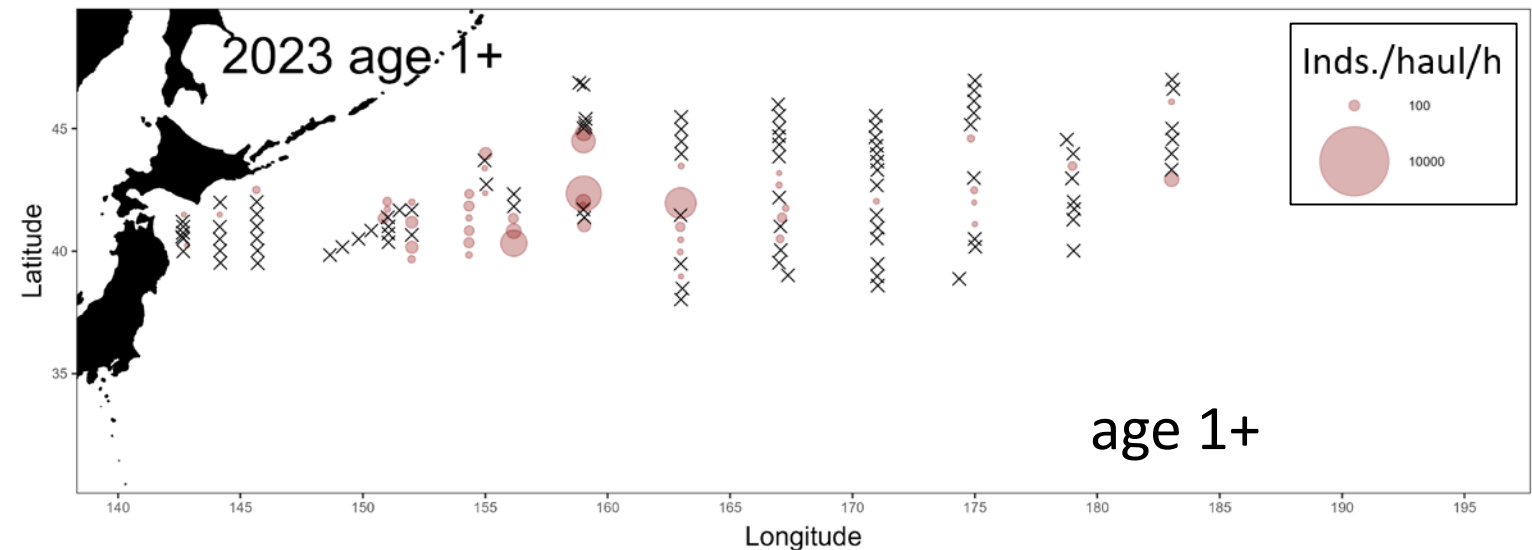
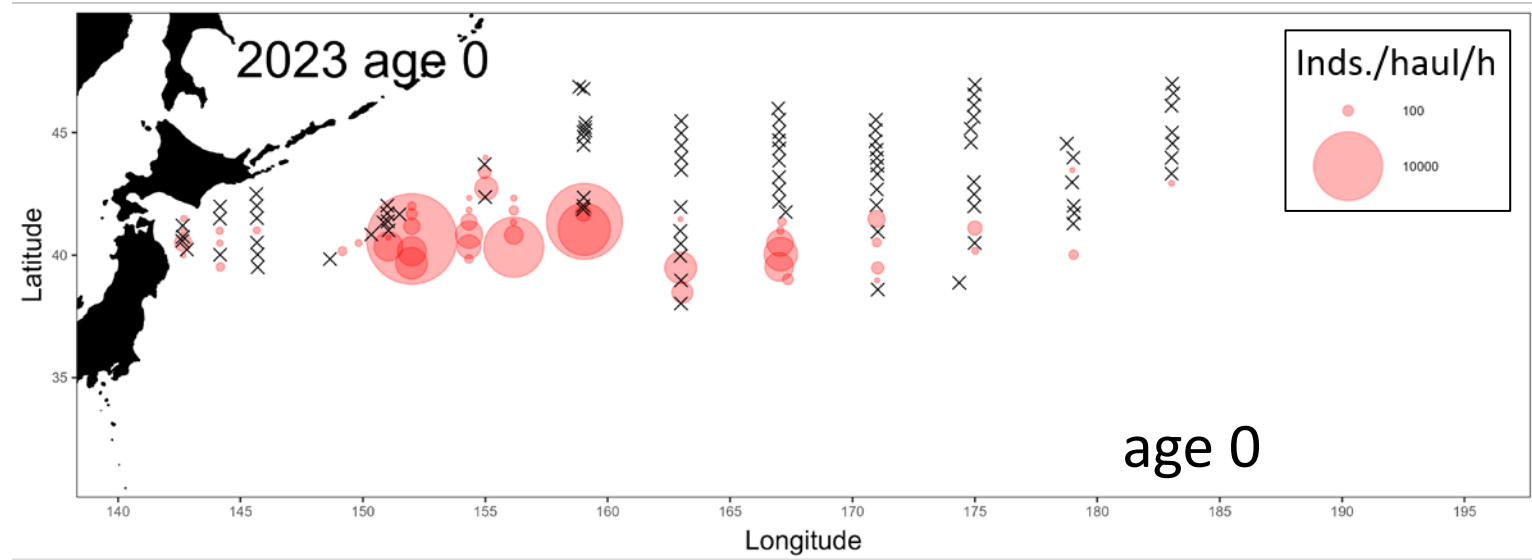
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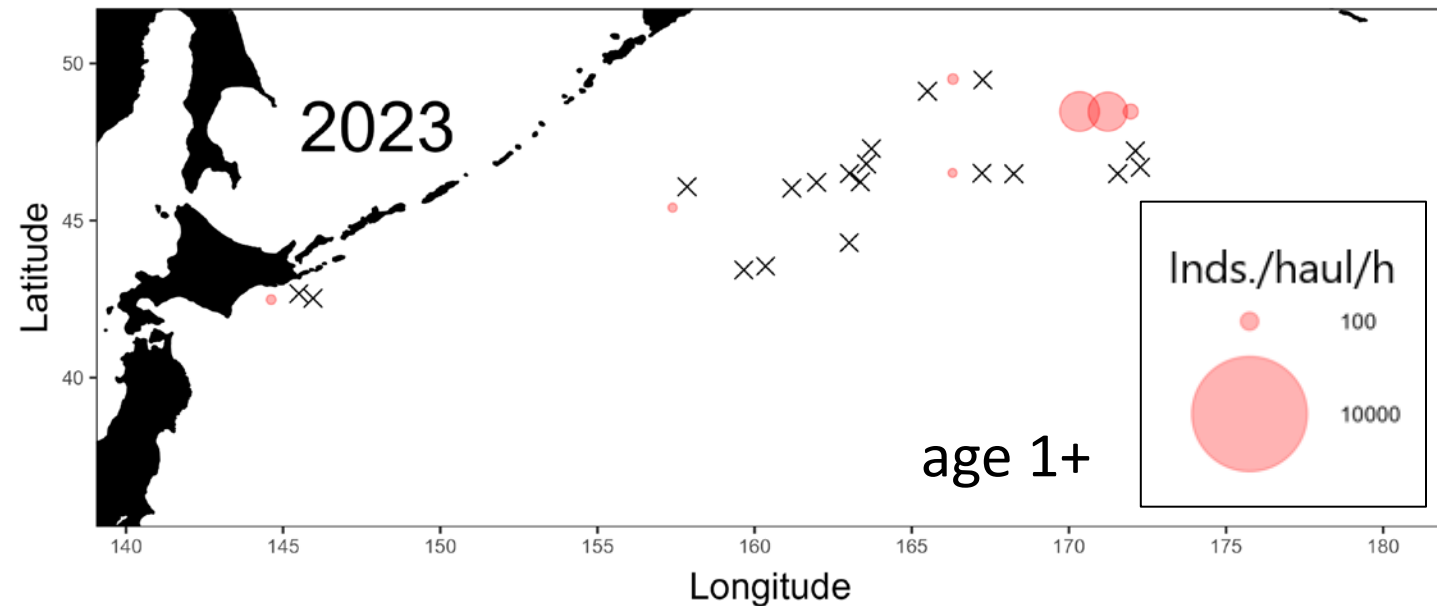
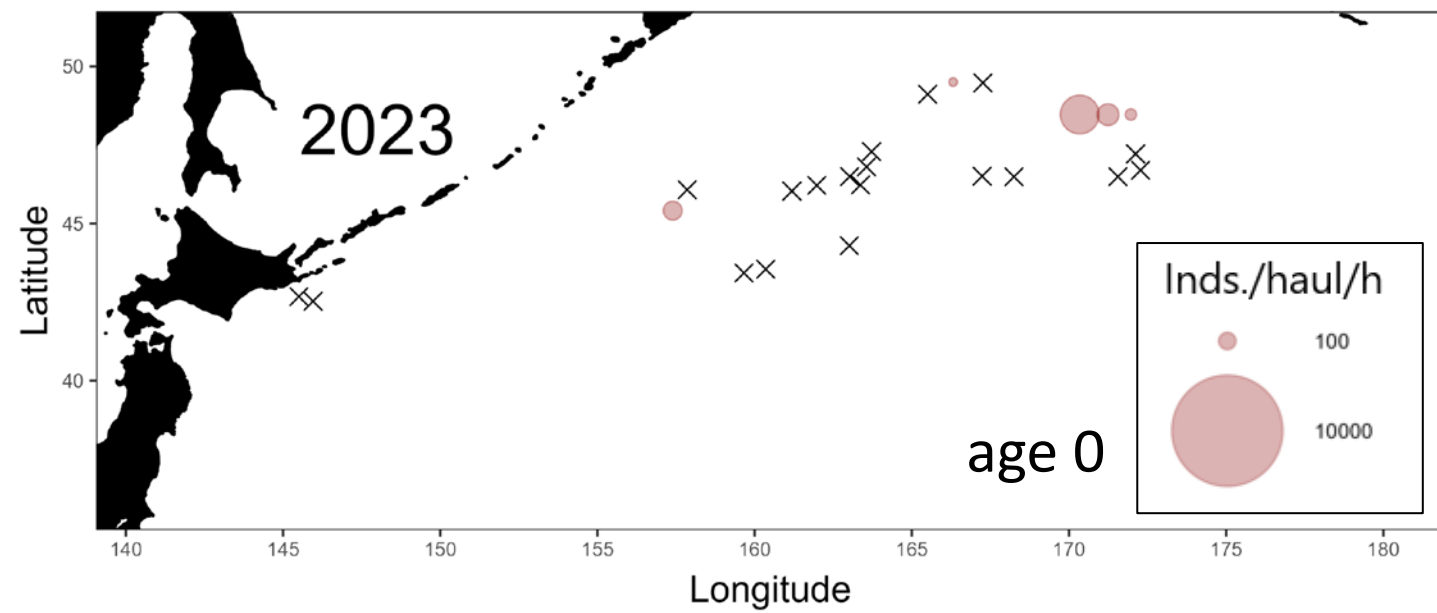
Research survey – Summer survey

- Little appearance near the coastal region
- Abundant age-0 in 150E-160E
- Very broad distribution of age-0 and age-1 to eastward region (even east of 180E)

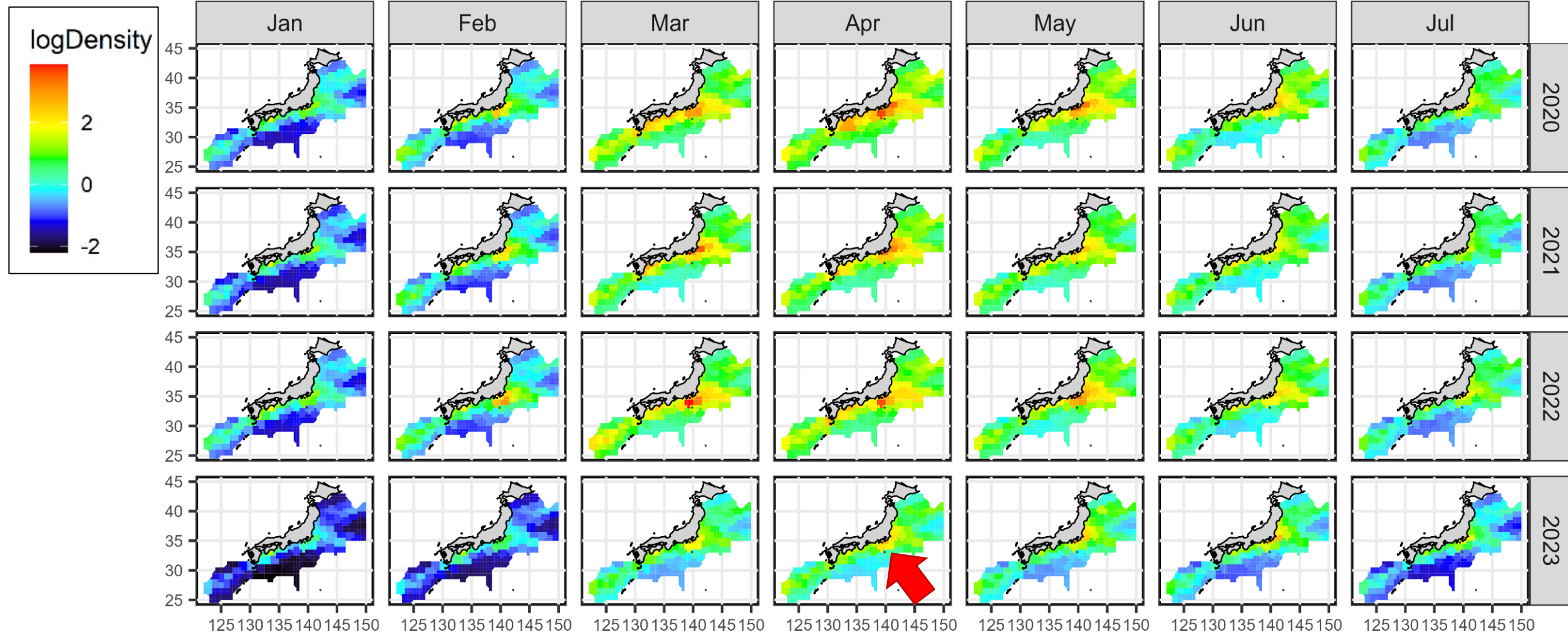


Research survey – Autumn survey

- Little appearance compared to the same survey from 2022
- Limited survey point for west of 160E
- Still showing broad distribution to east of 170E

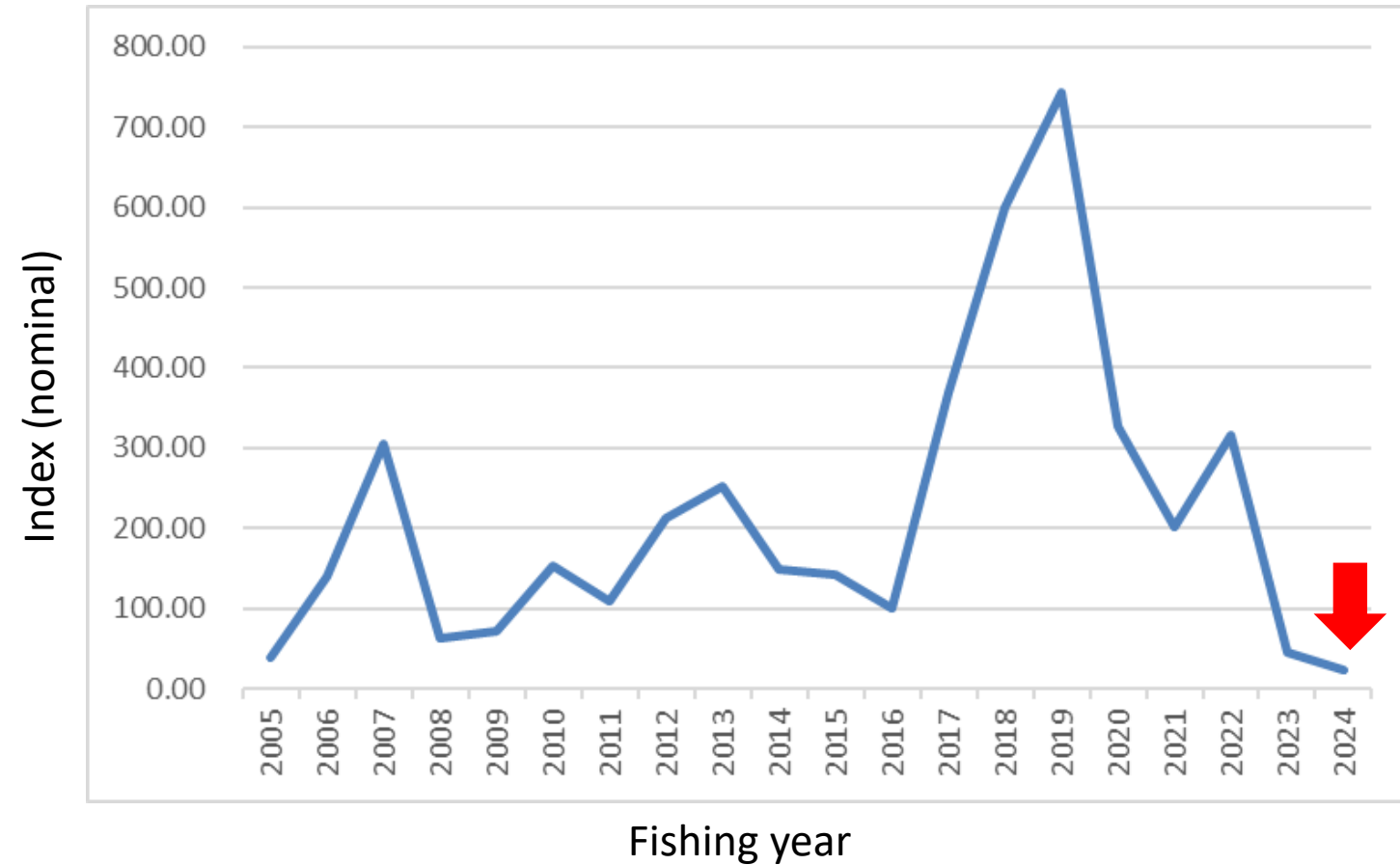


Egg survey



- Egg density of 2023 exhibited the center of egg density exists around Izu Islands
- Lower density compared to pre-2022 seasons

Egg survey – preliminary nominal result



- FY2024 index is lower is than FY2023
- Suggests the level of reproductive event was low in 2024 season
 - Local fishers say the catch of matured fish in the spawning ground is low
 - Further suggests the low abundance of SSB?

Conclusion

- Catch of CM is declining in Japan, still is in updated catch of FY2023
- Catch by purse seines in FY2022 was the lowest in the past 30 yrs
- Egg survey index showed **the egg abundance in 2024 is lower than 2023,**
suggesting low SSB or low reproductive event