



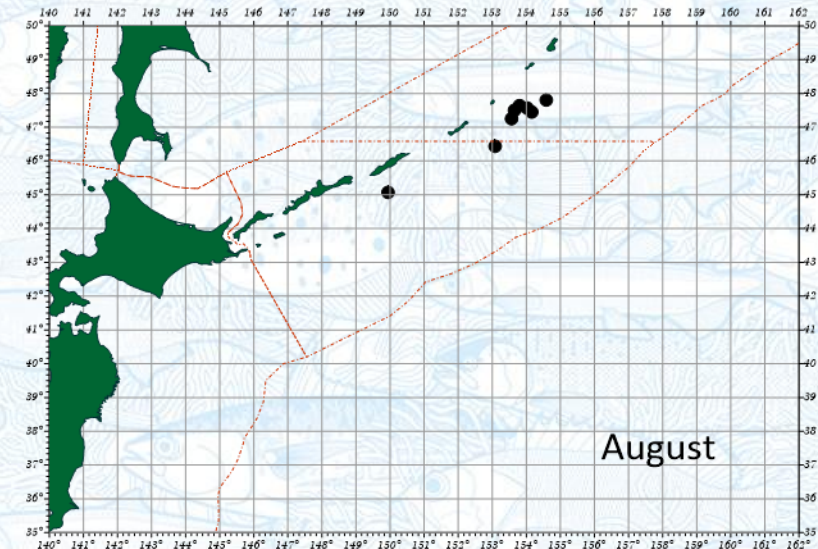
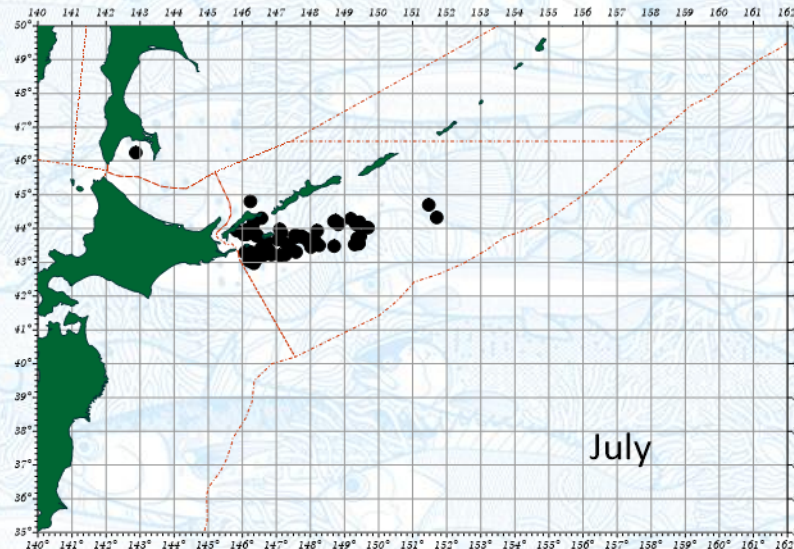
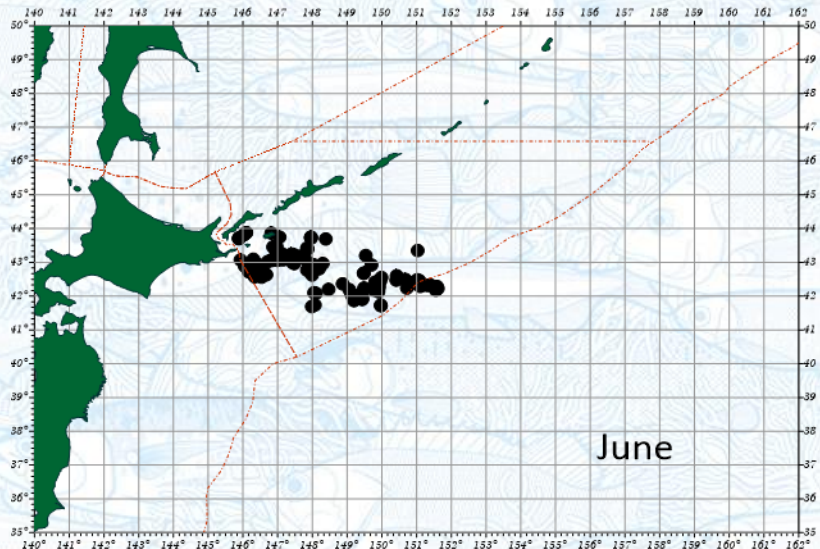
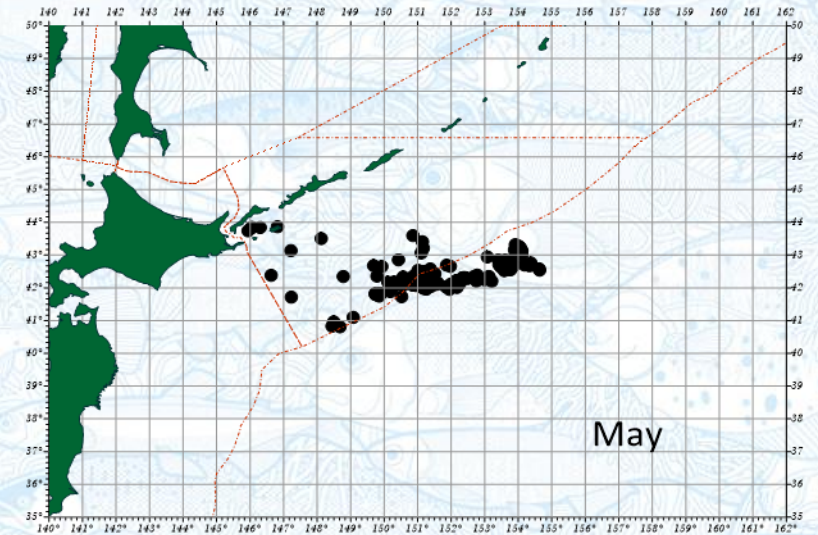
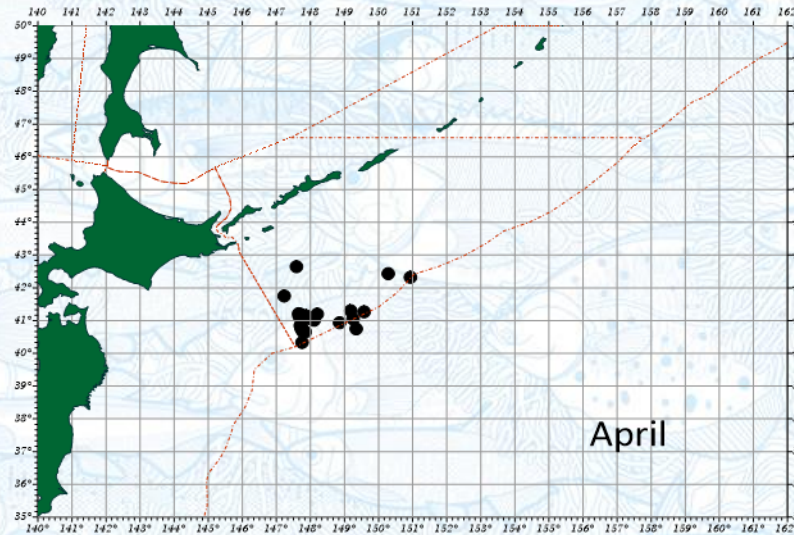
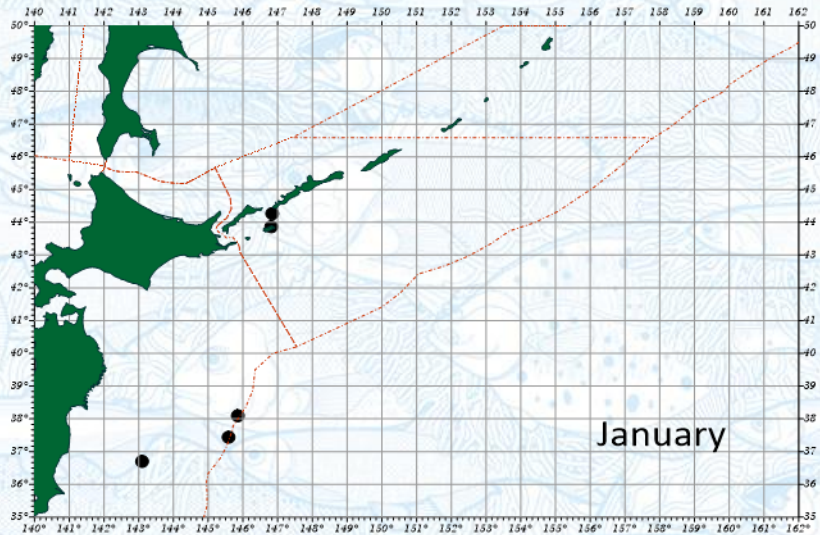
Chub mackerel Russian fishery in the northwest Pacific Ocean Pacific Ocean, research activities in 2024

Up to June 2025

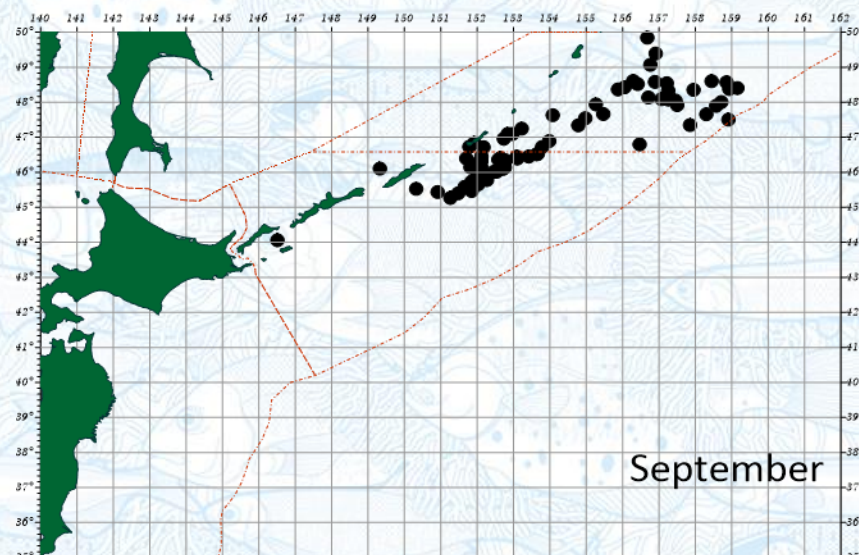
Dmitry Antonenko

Pacific Branch of VNIRO ("TINRO")

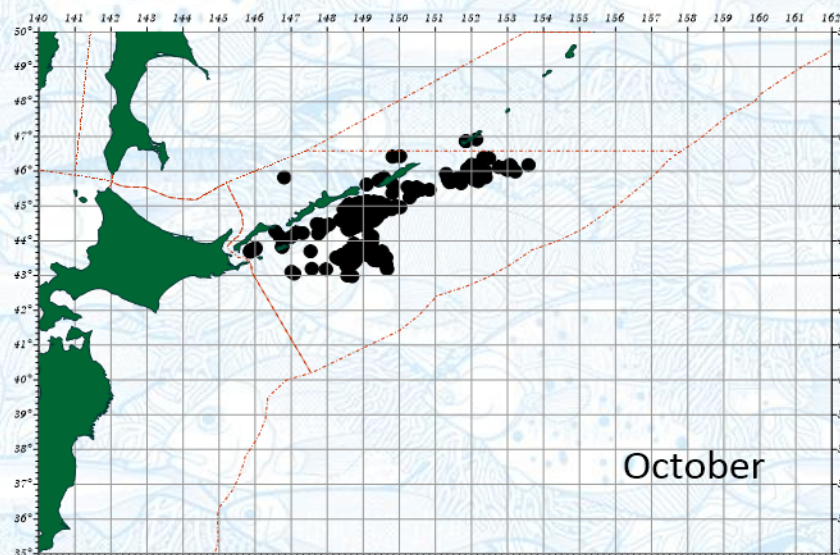
Mackerel fishing grounds of Russian vessels by month in 2024



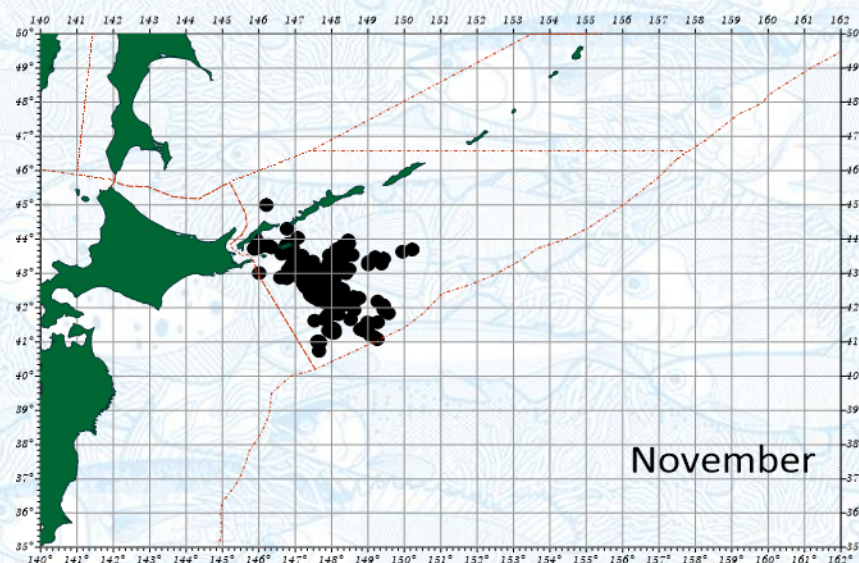
Mackerel fishing grounds of Russian vessels by month in 2024



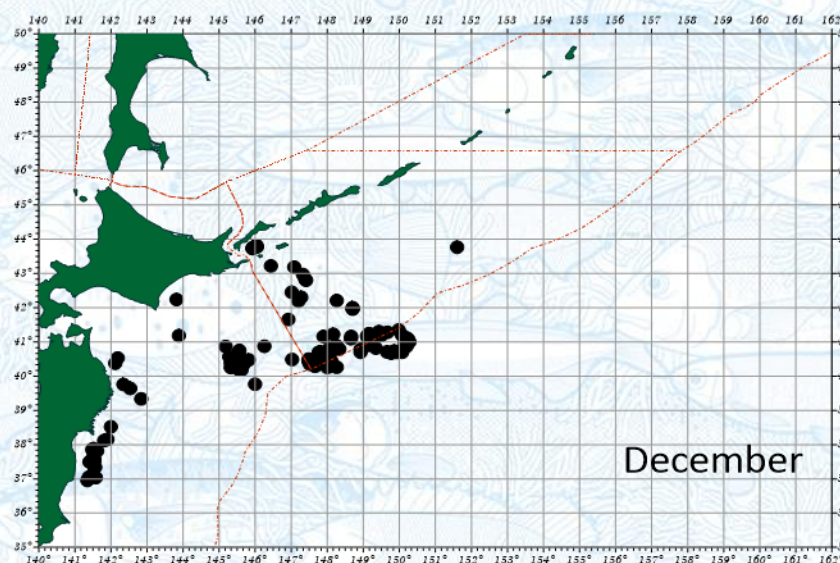
September



October



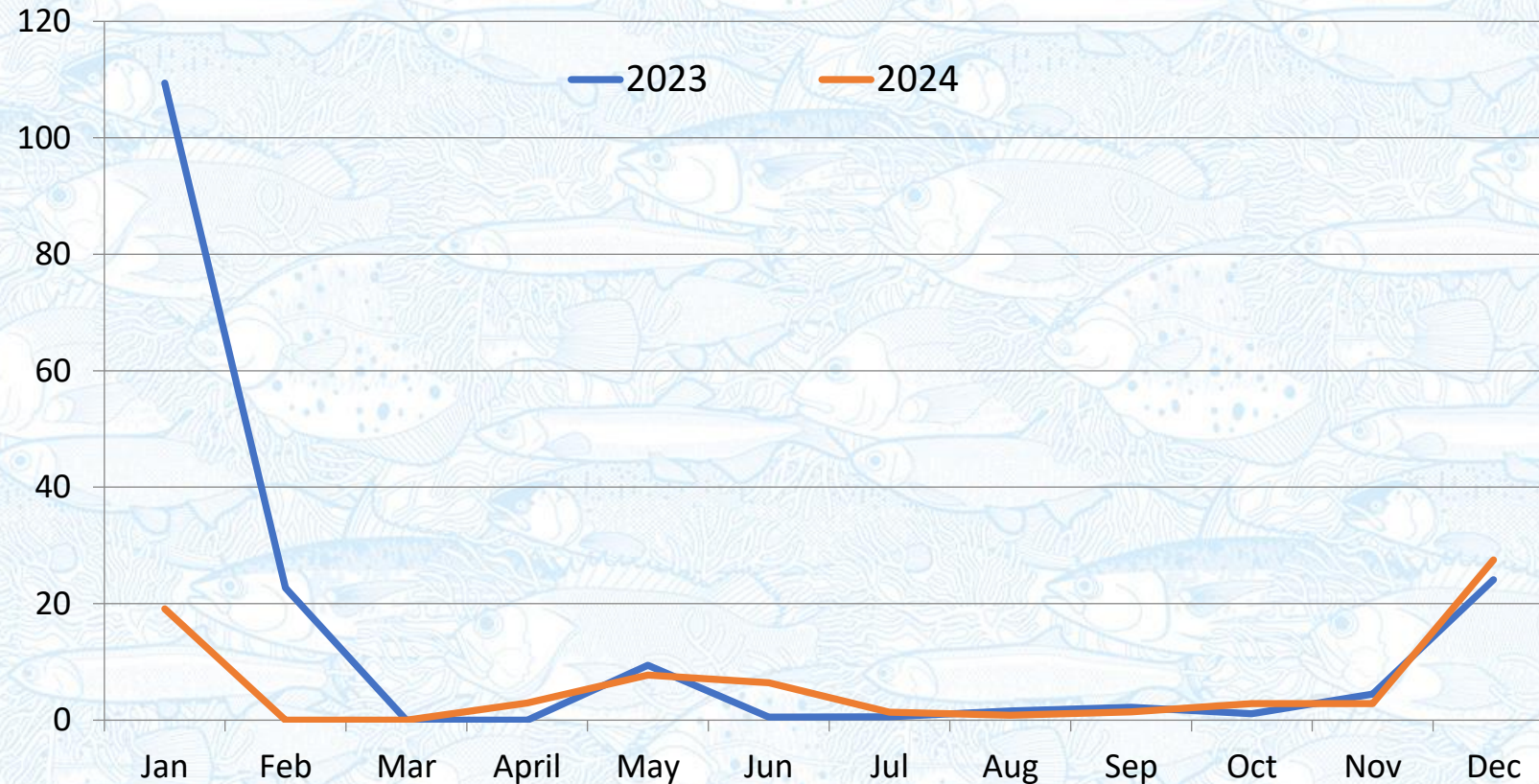
November



December

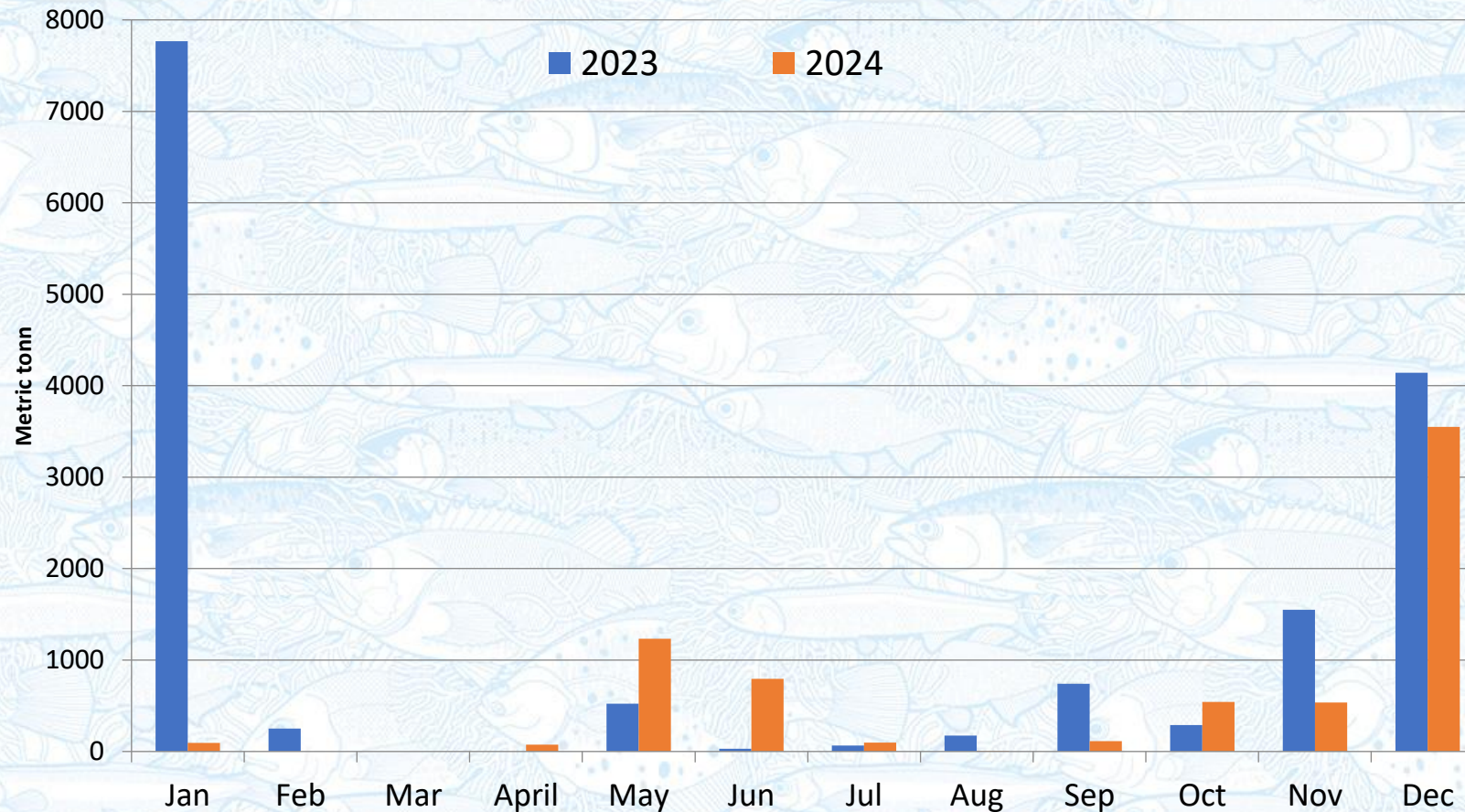
Russian vessels fished for mackerel in 2024 throughout the year, starting in January, with the exception of February and March. In January and partly in December, fishing was carried out within the EEZ of Japan, and in the rest of the period - in the EEZ of Russia. In April, May and December, some vessels went out to fish for mackerel in open waters.

Dynamics of average catch per effort (CPUE), tons/vessel per day, monthly in the 2023 and 2024 fishing seasons



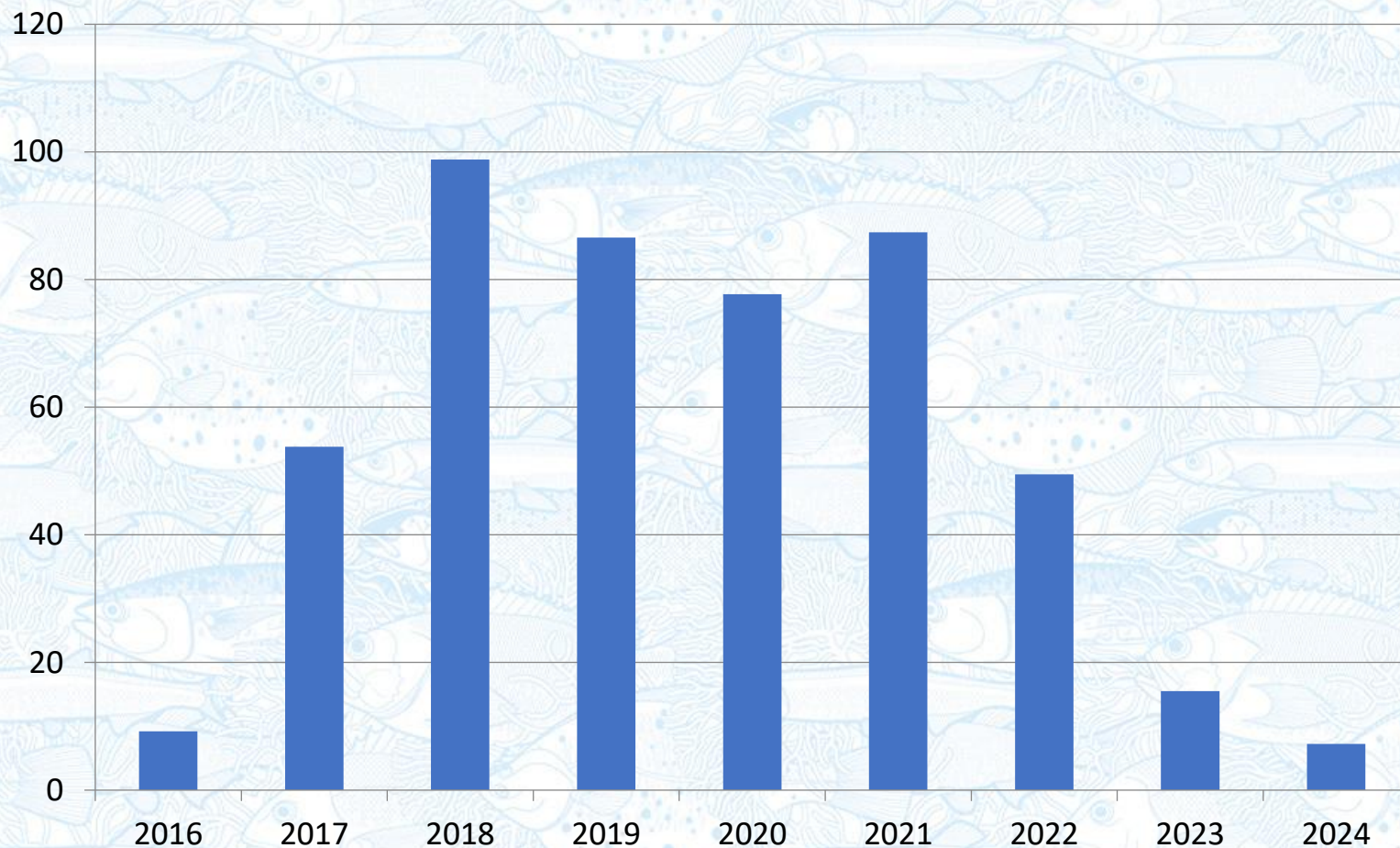
The average catch per effort – the catch per vessel per day (CPUE) was high in the winter months, but significantly lower than in 2020-2022. In the summer and the first half of autumn, the CPUE was very low and did not exceed 5 tons, only starting in November did the CPUE begin to increase. The average catch per effort in 2024 was significantly lower than in 2023.

Monthly catch of mackerel by Russian vessels in the 2023 and 2024 fishing seasons (tons)



In 2024, the monthly catch was also maximum in the winter months. In summer, the catch was minimal, in autumn, with the increase in the number of fishing vessels, the catch increased. The 2024 values are inferior to the 2023 catch.

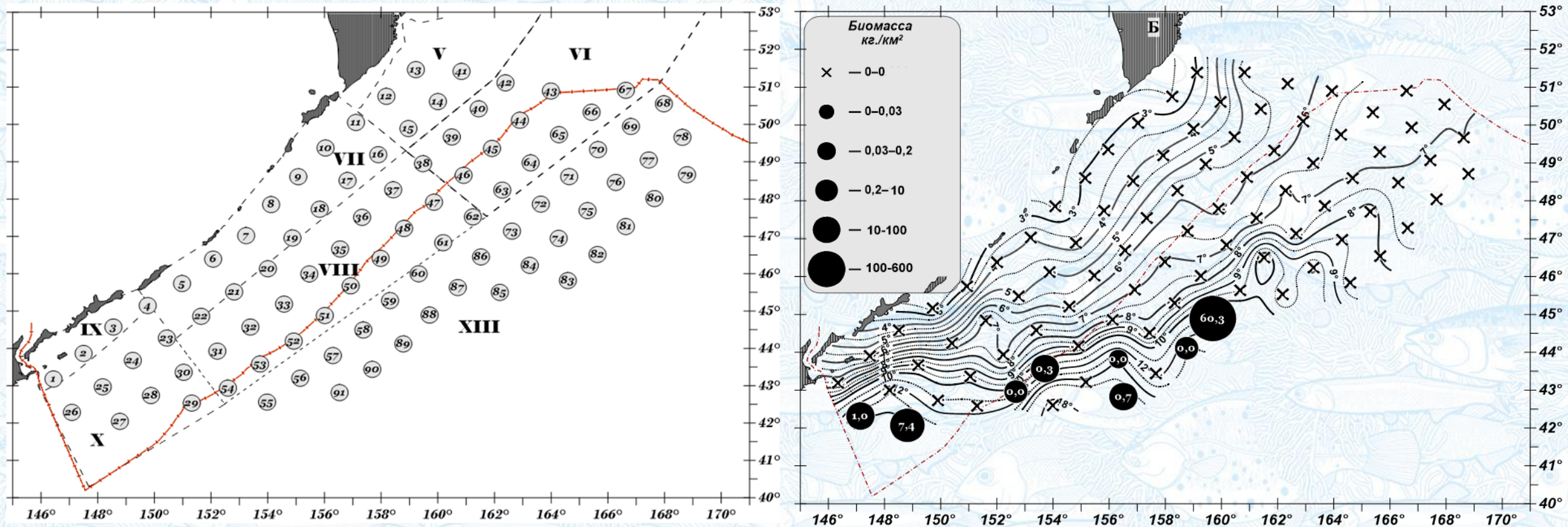
Catch of mackerel by Russian vessels, thousand tons



Russian mackerel fishing began in 2016, when 6.7 thousand tons were caught, in 2018 the maximum catch was reached - 98.8 thousand tons, from this year the catch began to decline and in 2024 the catch amounted to 7.2 thousand tons.

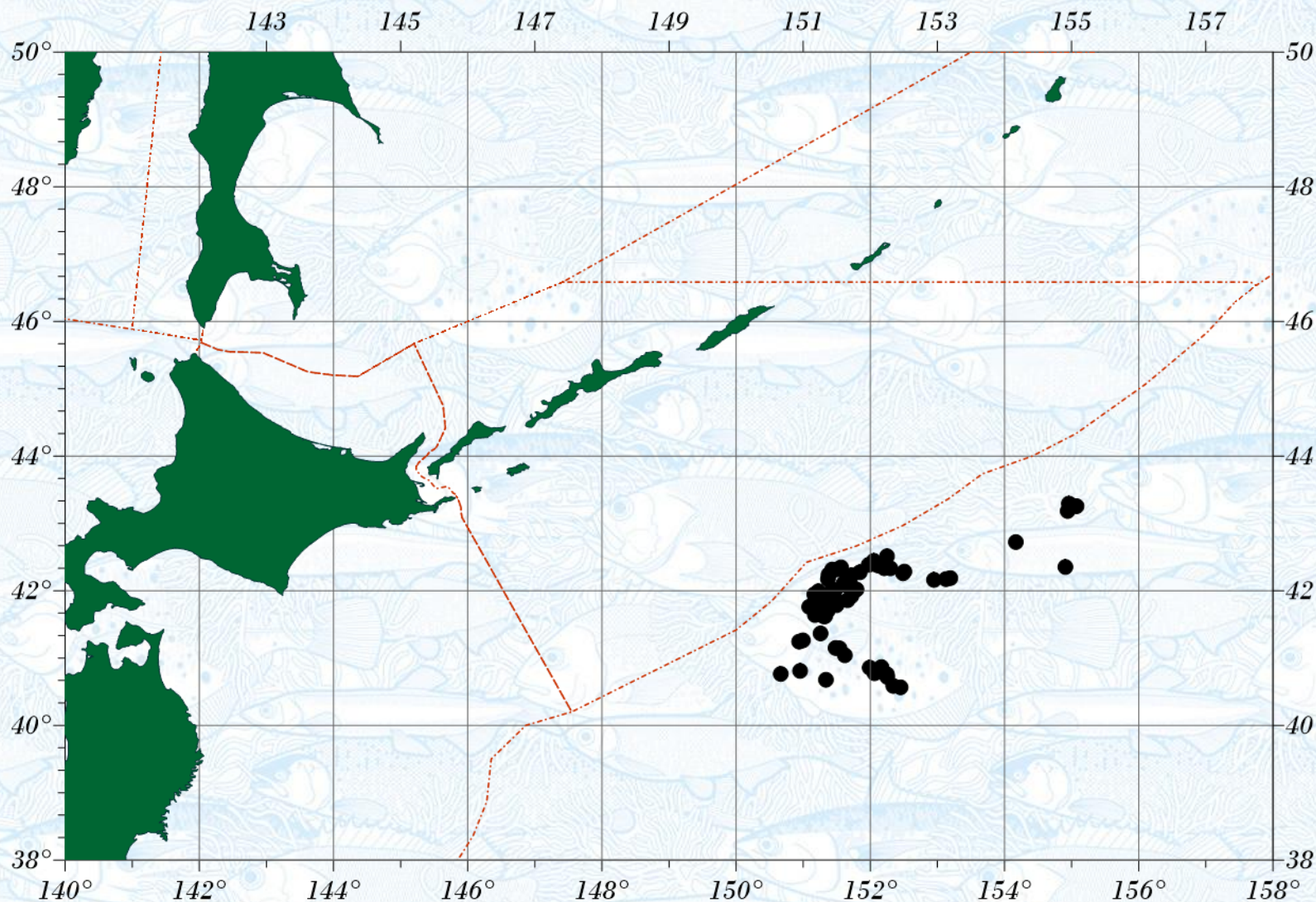
Research activities

Grid of trawl survey stations in the Northwest Pacific Ocean (left) and Spatial distribution of chub mackerel catches (kg/hour trawl) in the epipelagic zone of the northwestern Pacific Ocean 06-07.2024 (right)



Russian vessels are conducting a trawl survey of the northwestern Pacific Ocean, which covers both the waters of the Russian EEZ and the Convention area east of the Kuril Islands. Surveys are carried out in June-July annually, and in some years, a second survey in August-September. Surveys are carried out in two ways - pelagic trawling and hydroacoustic surveys. According to the assessment of the survey performed in the first half of the summer of 2024, the mackerel biomass in Pacific waters estimated by the trawl method was 9.13 thousand tons, according to hydroacoustic survey data - 364 thousand tons.

Mackerel fishing grounds of Russian vessels in May and June 2025



The mackerel fishery by Russian vessels in 2025 began on May 8. In May and June, 5 vessels equipped with pelagic trawls were engaged in the fishery. The fishery was conducted in the Convention Area near the Russian EEZ. The mackerel catch was very low, the lowest in the last 3 years, and the average catch per effort (CPUE) was 3.1 tons per vessel-day. Mackerel in the catches was bycatch in the sardine fishery. The cumulative mackerel catch as of May 31, 2025 was 150.5 tons. Trawl survey of the epipelagic zone of the northwestern Pacific Ocean has not yet begun as of early June.