



North Pacific Fisheries Commission

NPFC-2022-TWG CMSA05-IP03

## **Monthly catch data and the maps and description of China' fishing grounds**

Heng Zhang<sup>1</sup>, Chao Yang<sup>1,2</sup>, Yongchuang Shi<sup>1</sup>, Haibin Han<sup>1,2</sup>

<sup>1</sup>Key and Open Laboratory of Oceanic Laboratory of Remote Sensing Information Technology in Fishing Resource, East China Sea Fisheries Research Institute, Chinese Academy of Fishery Science. Shanghai 200090, China

<sup>2</sup>College of Marine Sciences, Shanghai Ocean University, Shanghai 201306, China



### 1 Monthly catch in 2015-2021

Figures 1-7 showed the monthly catch (tons) of purse seine fleet in 2015-2021. In 2015-2019, main fishing seasons were during summer and autumn (May to October). However, in 2020 the monthly catch on chub mackerel maintained a relatively lower level from April to July.

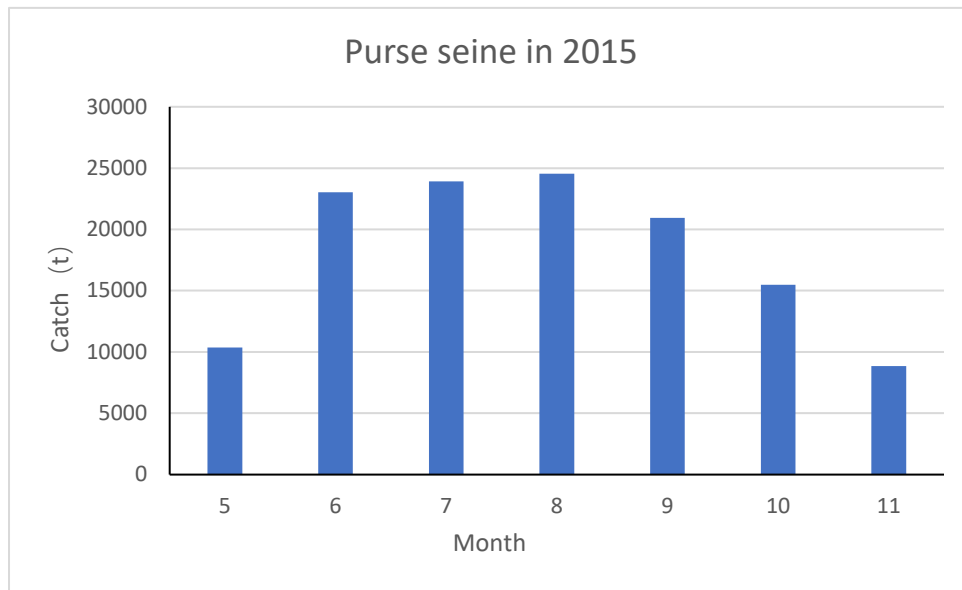


Figure 1 Monthly catch changes in 2015

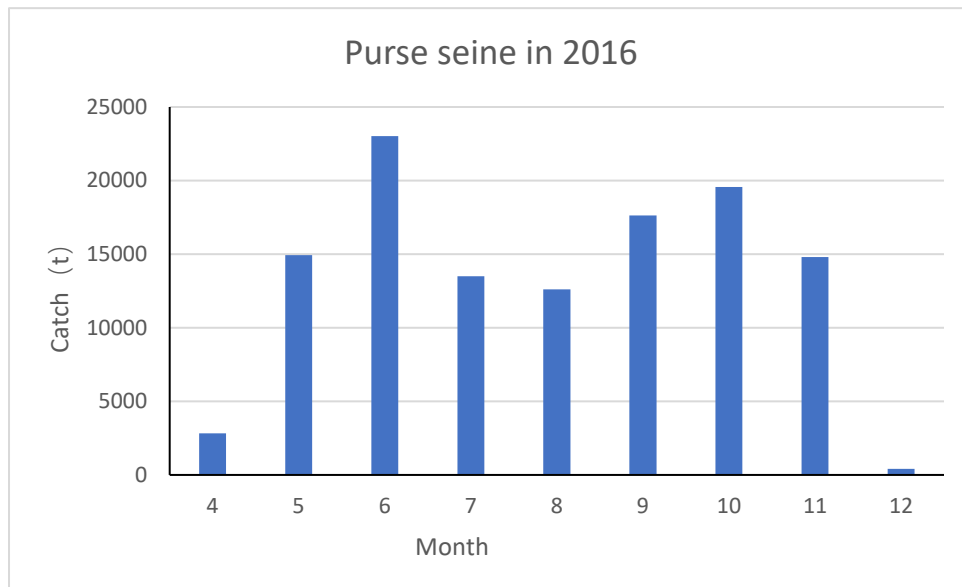


Figure 2 Monthly catch changes in 2016

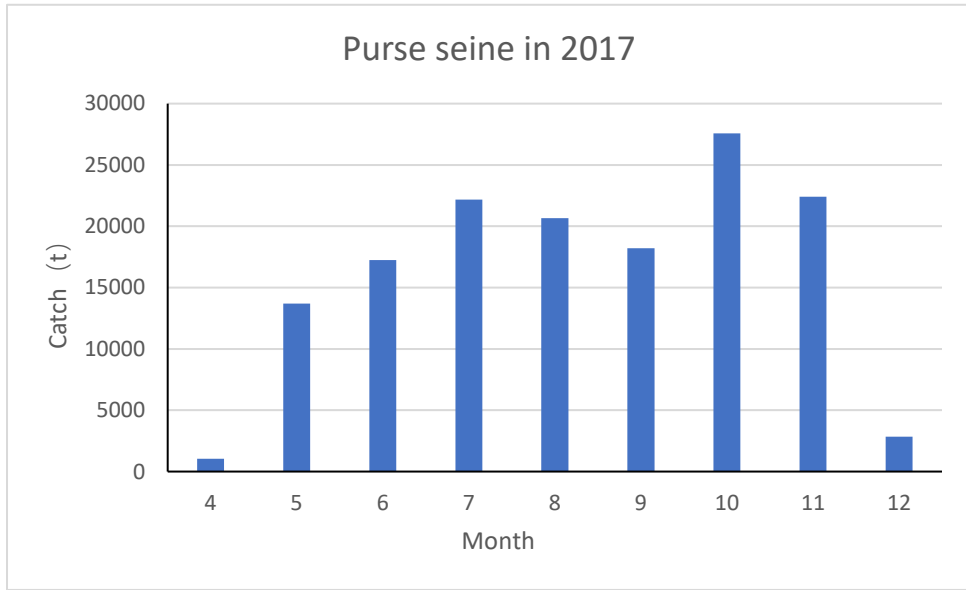


Figure 3 Monthly catch changes in 2017

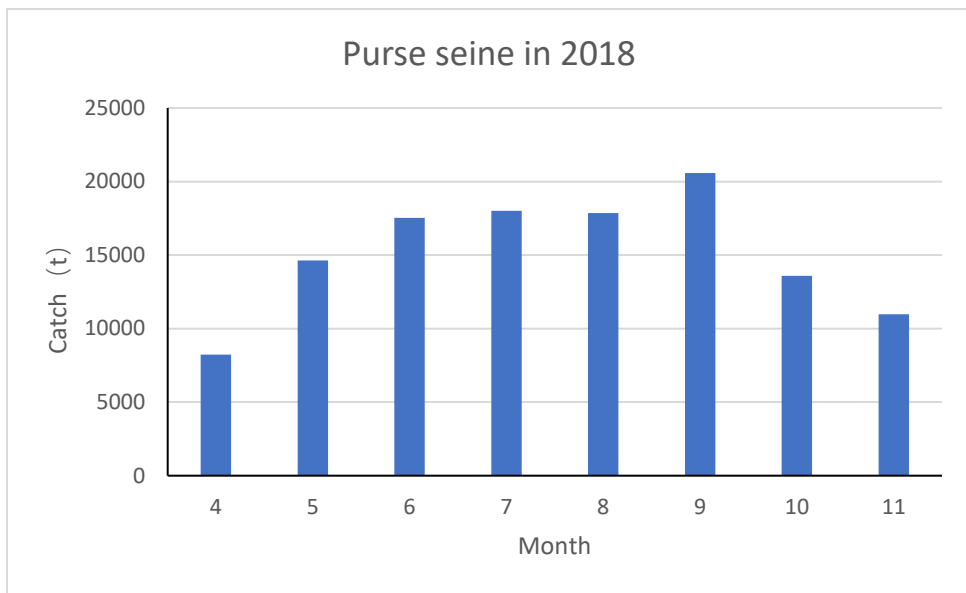


Figure 4 Monthly catch changes in 2018

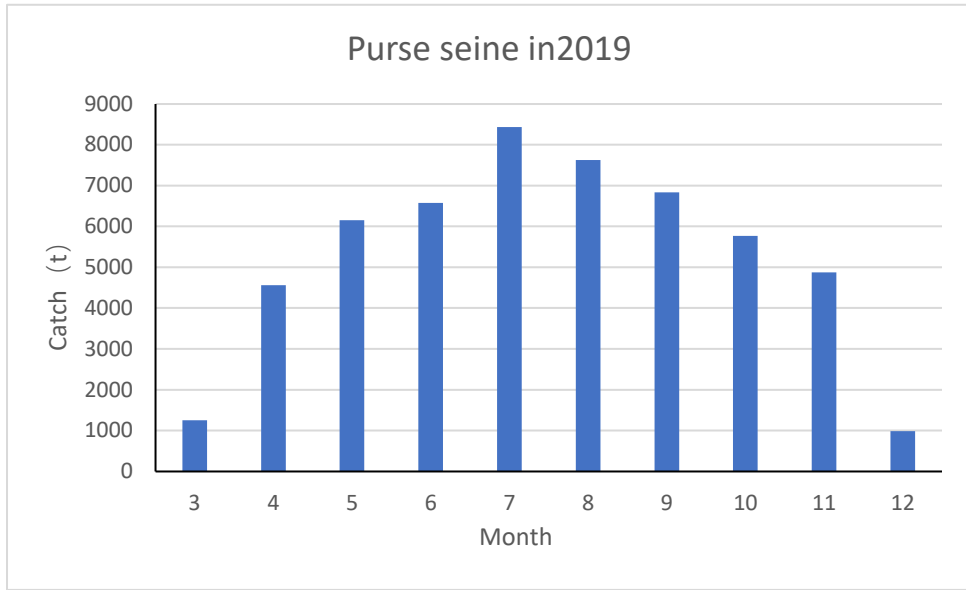


Figure 5 Monthly catch changes in 2019

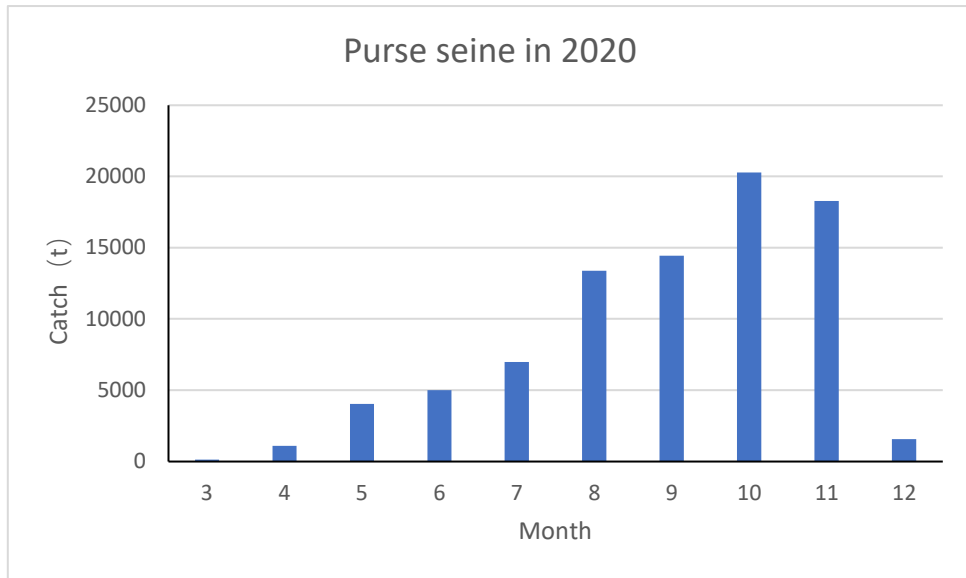


Figure 6 Monthly catch changes in 2020

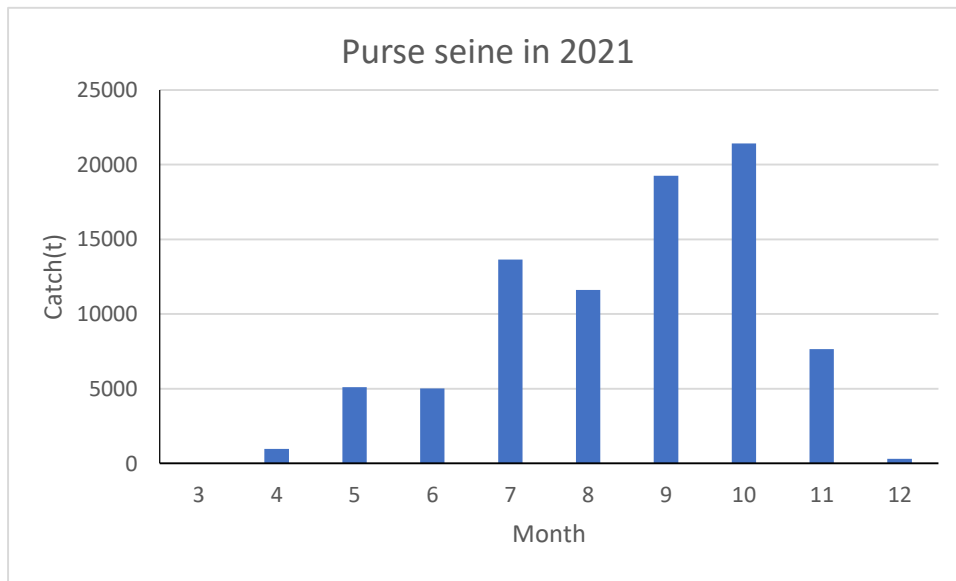


Figure 7 Monthly catch changes in 2021

## 2 Maps of chub mackerel in China' fishing ground in 2021

In Figure 8, it showed the spatial distribution of chub mackerel catch (tons) in the North Pacific in 2015-2017. In latitude, the total yield of 40-44 degrees north latitude was relatively higher than which in the other areas. China fleet caught 108,266 tons in 2021. In Figure 9, it showed that the catch of chub mackerel in purse seine fleet distributed in the NPFC area in 2021.

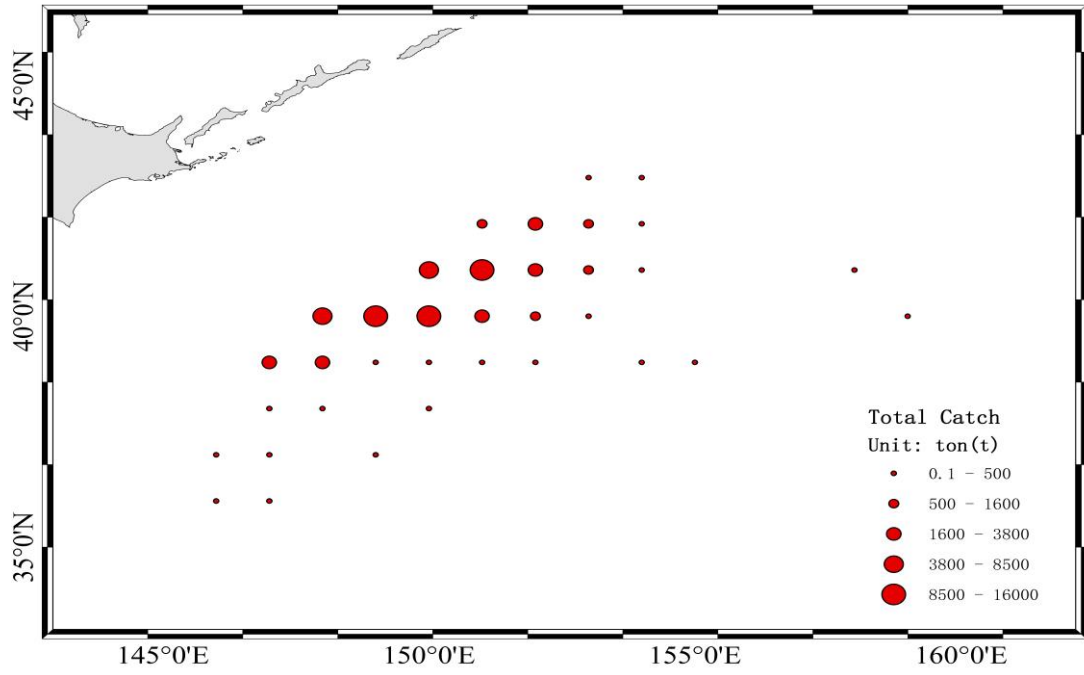


Figure 8 Distribution on the catch of chub mackerel in China in 2015

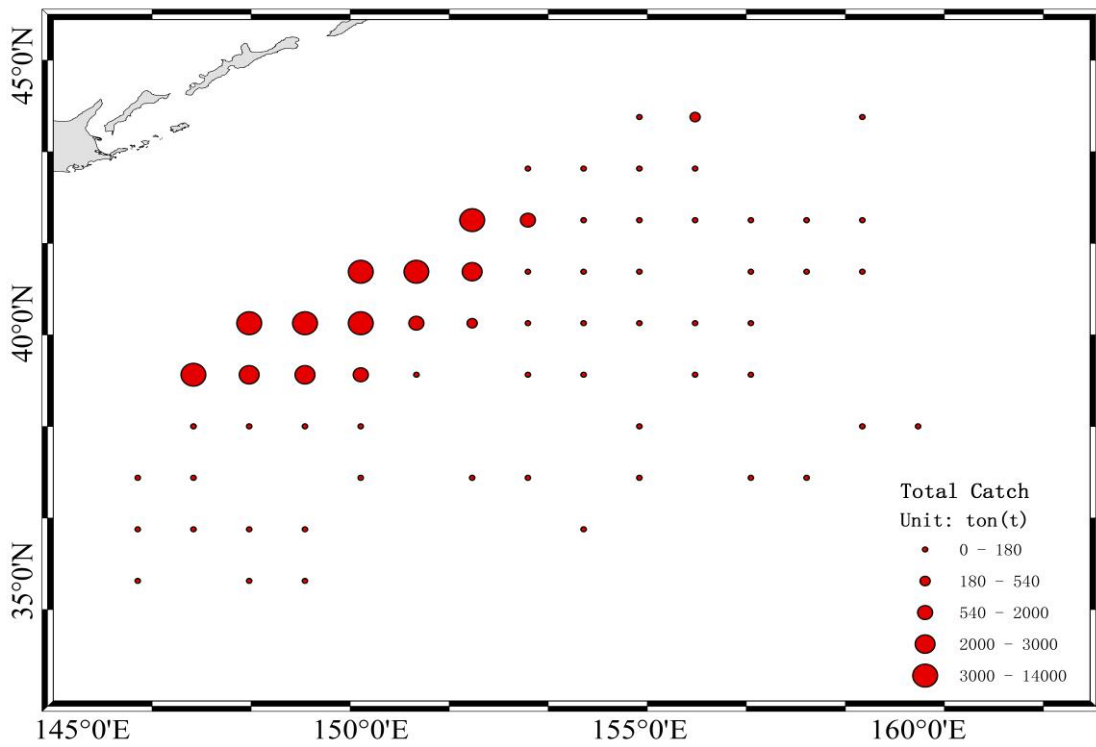


Figure 9 Distribution on the catch of chub mackerel in China in 2016

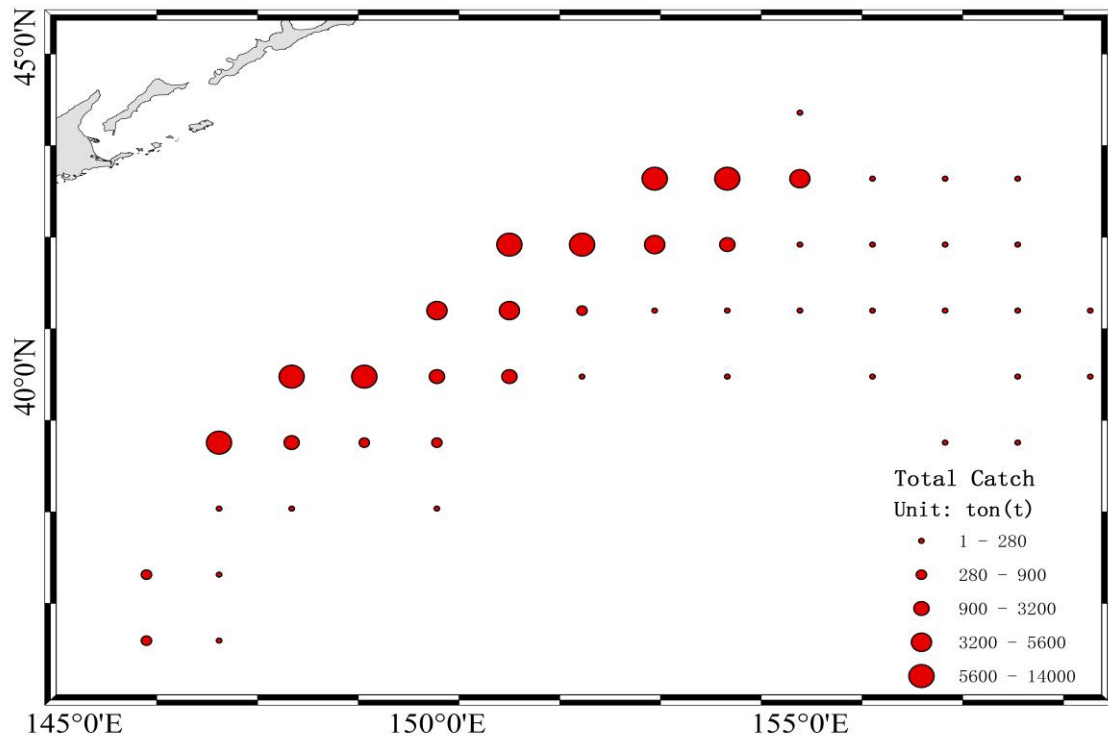


Figure 10 Distribution on the catch of chub mackerel in China in 2017

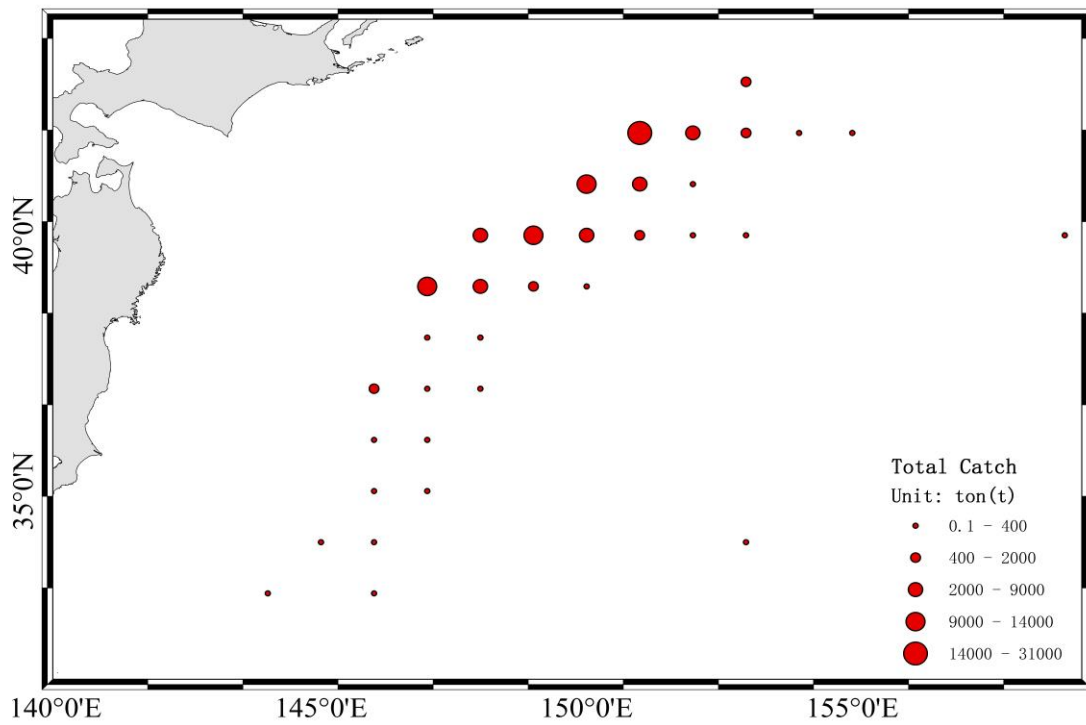


Figure 11 Distribution on the catch of chub mackerel in China in 2018

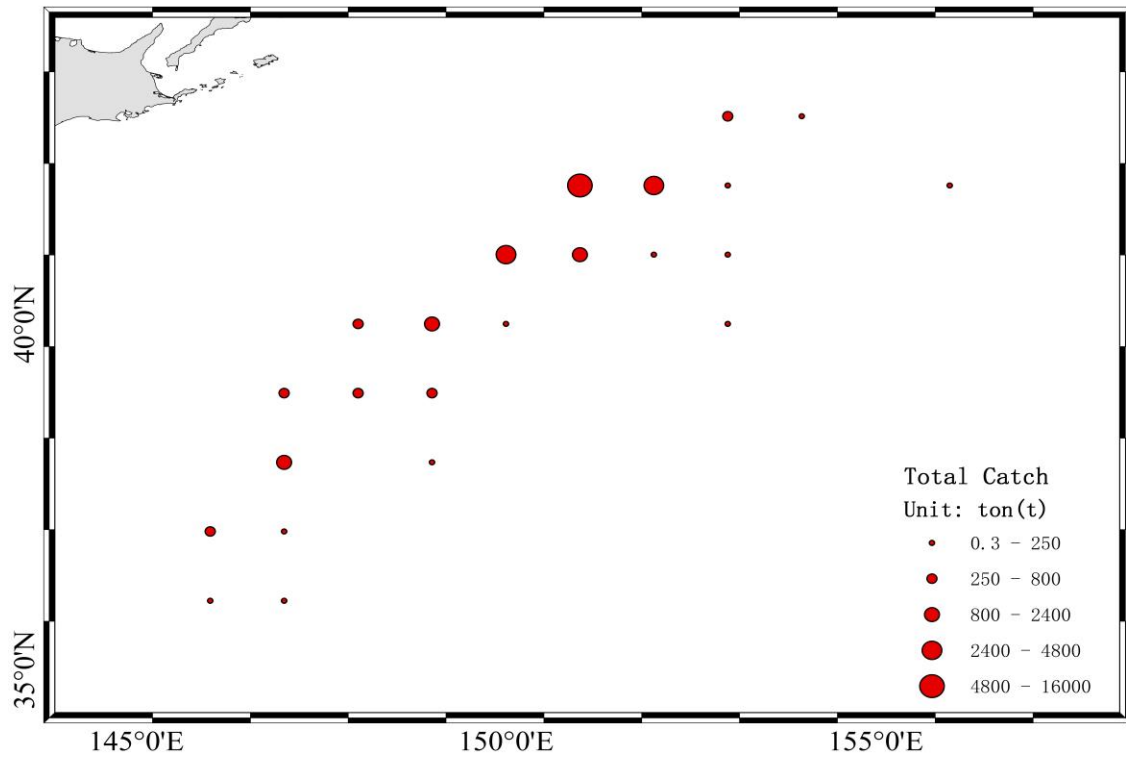


Figure 12 Distribution on the catch of chub mackerel in China in 2019

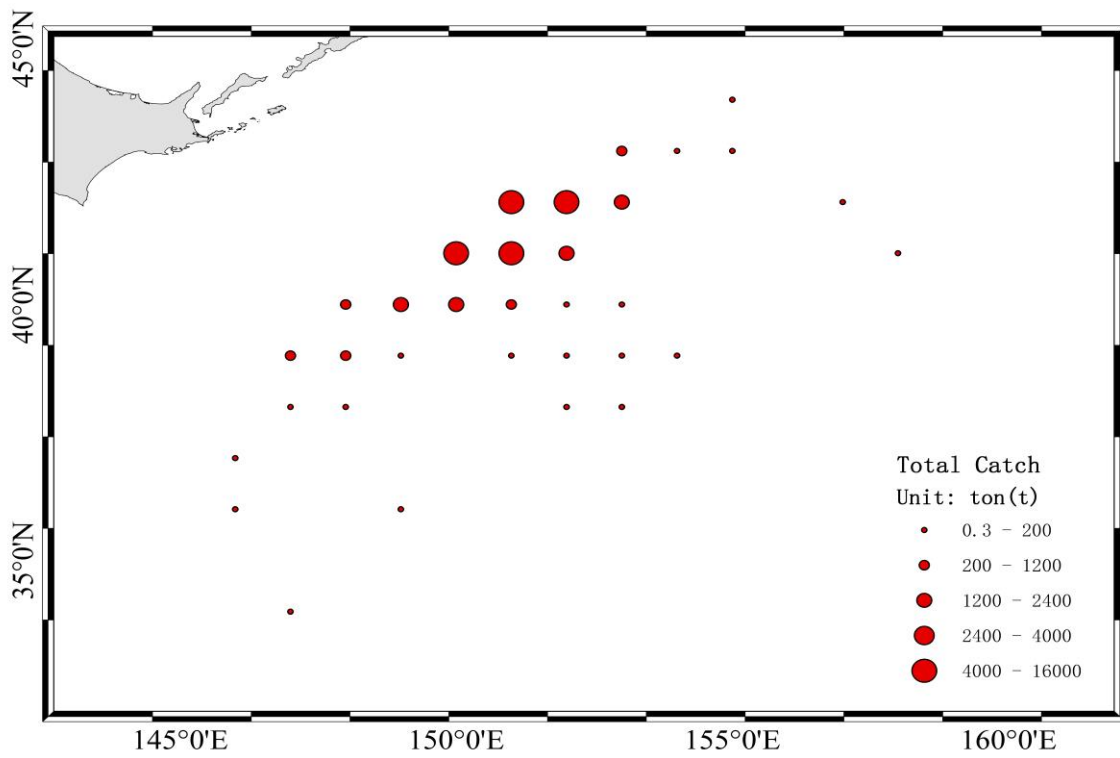


Figure 13 Distribution on the catch of chub mackerel in China in 2020



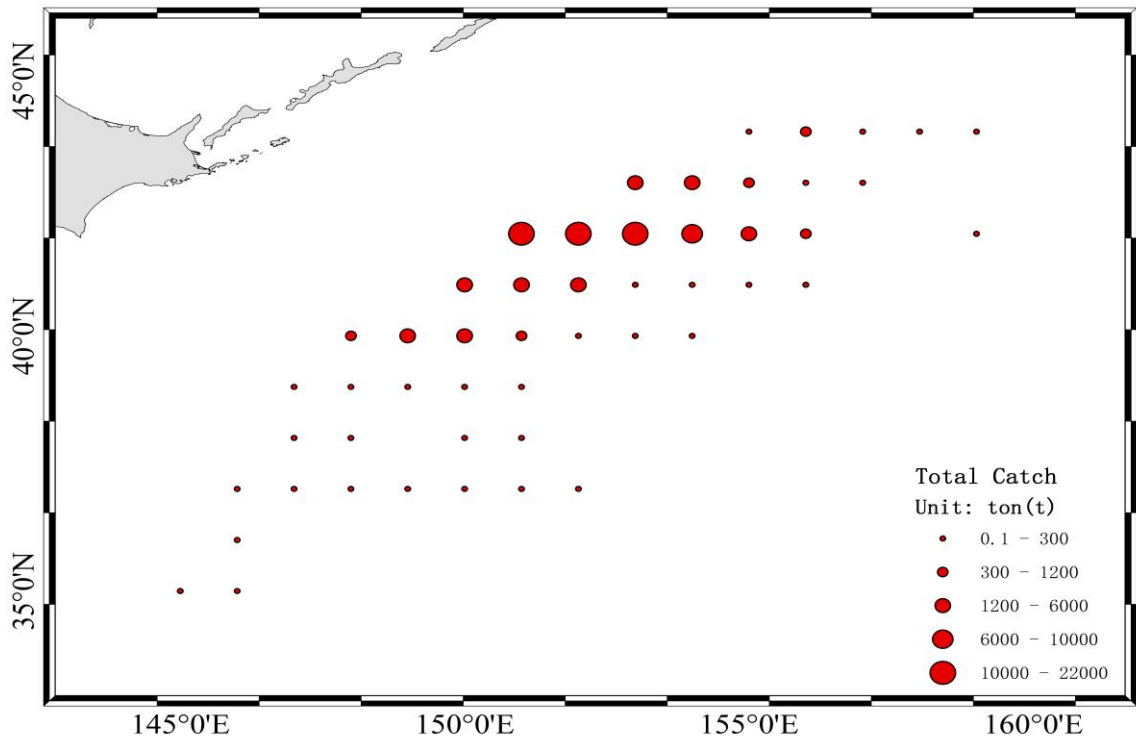


Figure 14 Distribution on the catch of chub mackerel in China in 2021

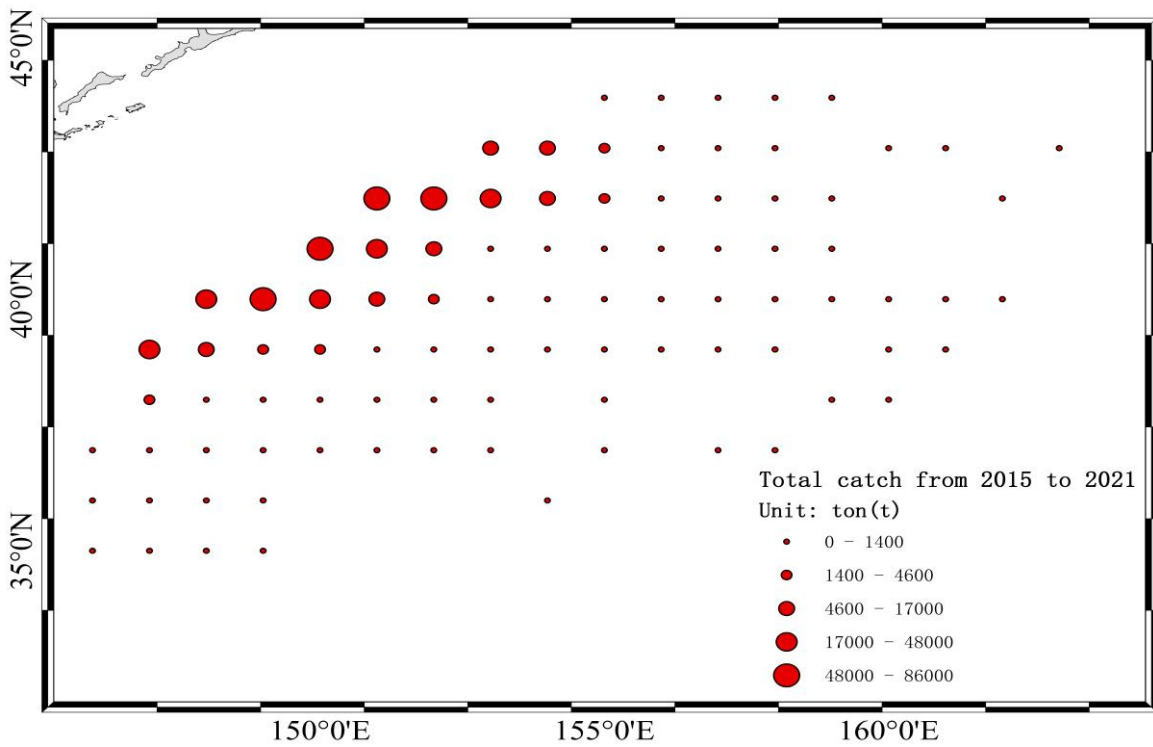


Figure 15 Distribution on the catch of chub mackerel in China in 2015 - 2021

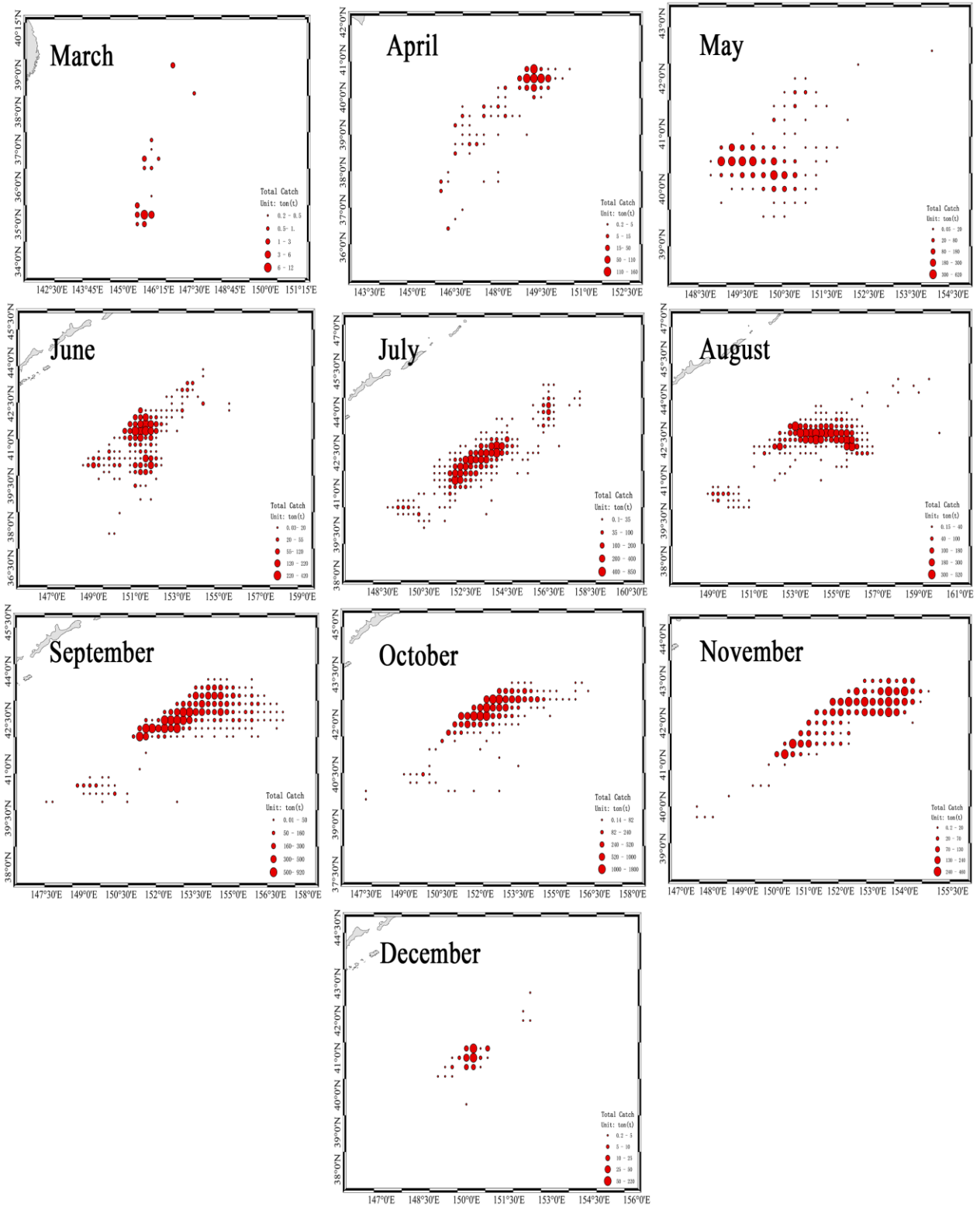


Figure 16 Distribution on the catch of chub mackerel in China by month in 2021

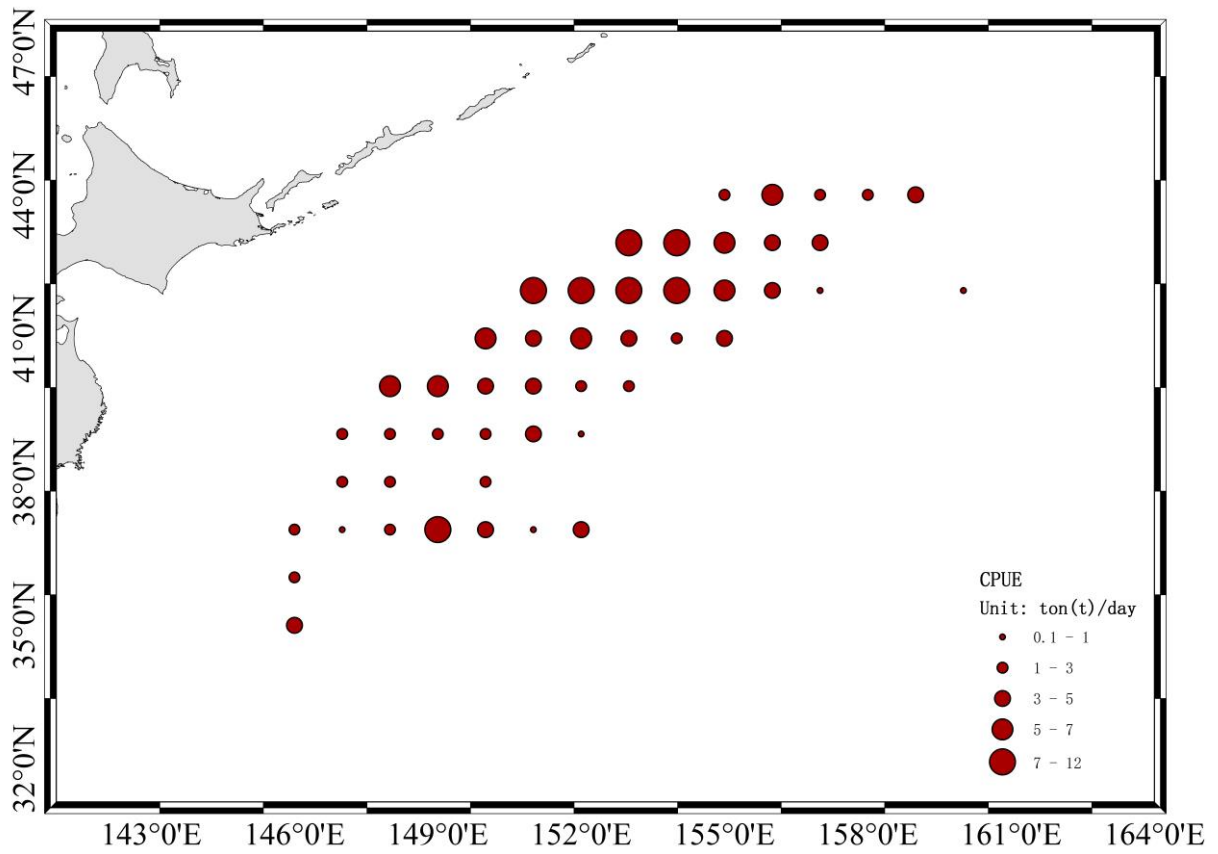


Figure 17 Distribution on the CPUE(ton/day) of chub mackerel in China in 2021