



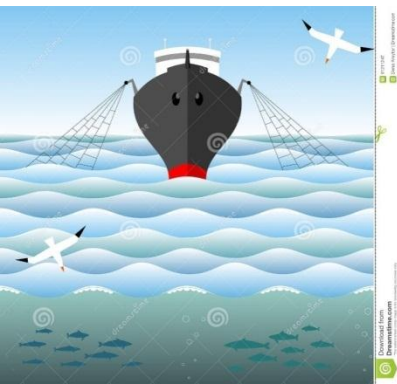
NPFC, 2021



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Review of chub mackerel fishery in China and research activities

China



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1. Introduction



Chub mackerel (*Scomber japonicus*) widely distributes in the Pacific Ocean.

Specially, the North Pacific Ocean and East China Sea are both important fishing ground areas for this population.

In East Asia, Chub, Korean and Chinese people like to eat this fish.



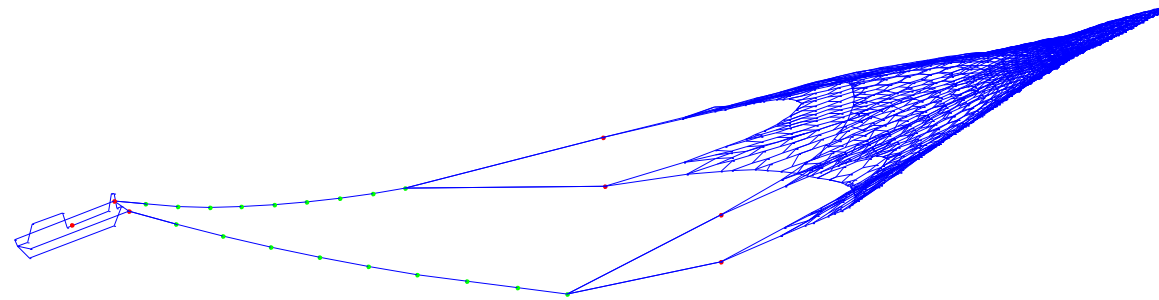


light-purse seine

Now, Two types of fishing nets operated in this fishery including the light-purse seine nets(>97%) and pelagic trawl nets(<3%).

trawl nets **Pelagic trawling**

In 2020, **Two** trawl vessels seasonally catch the chub mackerel fishery in the NPFC areas with **296 fishing days**.



2. Description of chub mackerel fishery in China in North Pacific ocean

Fishing effort and catch

Calendar Year	Fishing Gear	Statistical Area	Effort	
			Numbers of fishing vessels	Fishing days
2020	purse seine	CA	51	8459
	Pelagic Trawl			
	Pelagic Trawl (by-catch)		2	296

Catch on the Chub mackerels: 94, 256 tons in 2020

Research activities and training

- ◆ Collection and analysis of fishing logbooks every year
- ◆ Research Specialist Staff went to fishing vessels or in the ports to collect the samples data



Research activities and training



Technical Group of Mackerel Fish every year training fisheries knowledge for fishermen and enterprises.

3 Fisheries data collection and research activities

We collected the chub mackerel samples since 2016. In 2017-2020, more than 2000 individuals were measured in the lab. The size range of fork length was 110-400mm (Table 1).

Table1 Data, frequency, and size on the samples of the chub mackerel in the CA areas

Data	Frequency	Size range (FK, mm) of fishes
August to November, 2016	3 months	129~378
May to November, 2017	9 months, every month	130~345
April to October, 2018	7 months, every month	178~388
April to November, 2019	8 months, every month	154~358
April to December,2020	9 months, every month	110~400

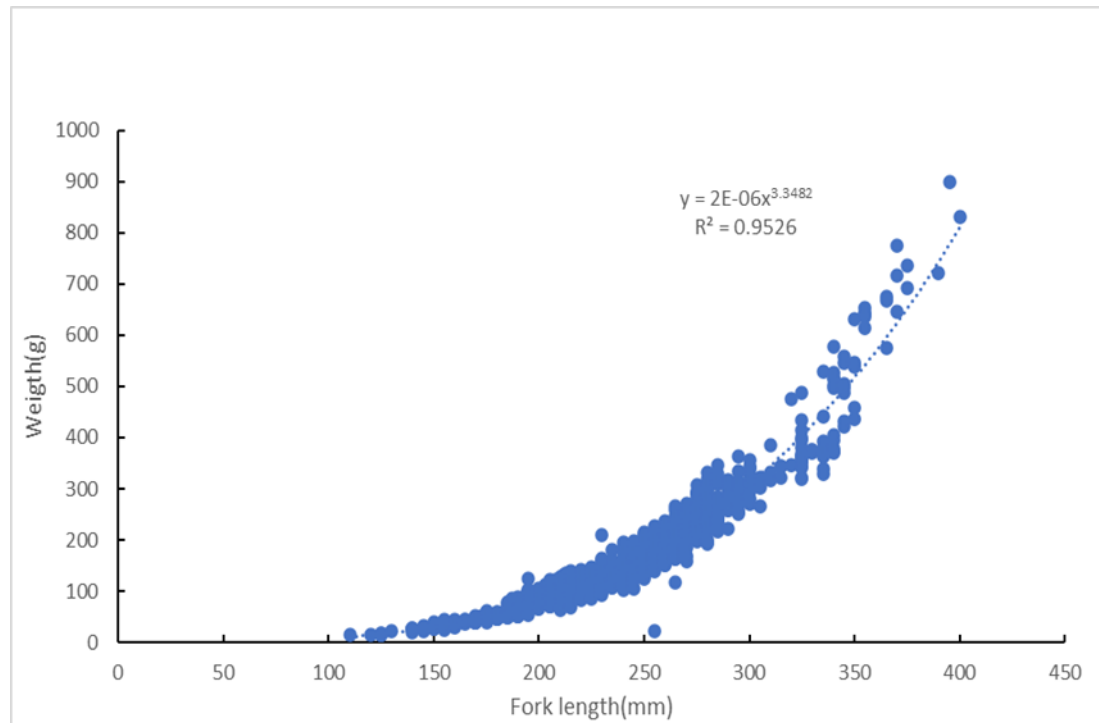
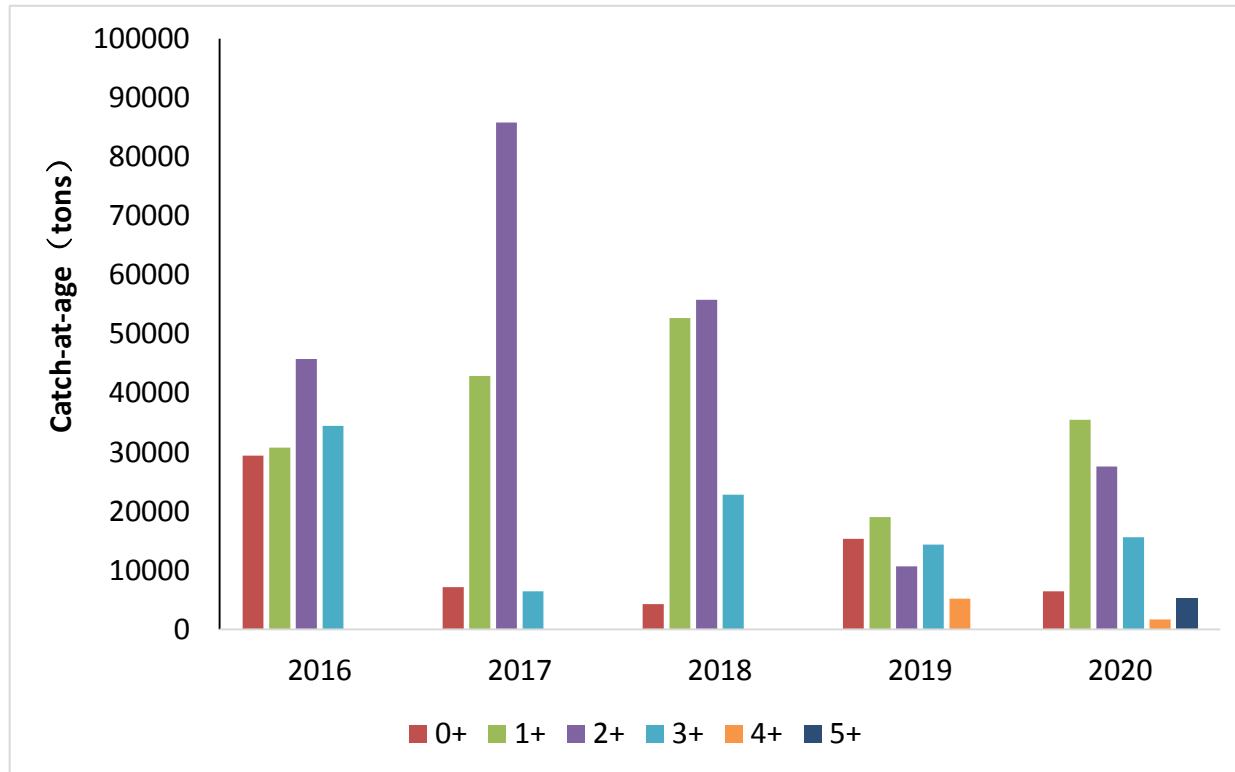


Figure Length-Weight relationship of **China_chub** mackerel in 2020 (n=1264)



Using otolith age identification technology, we analyzed the Catch-at-age composition in chub mackerel catches (Fig.3). The catch-at-age 1+, 2+ and 3+ in 2020 both exceed those in 2019. For the first time, in 2020 we have a sample of the catch-at-age 5+.

4. Future research of Chub mackerel fishery

- Strengthening the Collection of Fishery Biological Data for assessment of mackerel resources

• Thank you very much!

