

**HD Science - Marine Science; Study Findings on Marine Science Published by Researchers at Chinese Academy of Sciences (Assessments of 15 Exploited Fish Stocks in Chinese, South Korean and Japanese Waters Using the CMSY and BSM Methods)**

**WC** 403 words

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**LP**

2020 AUG 14 (NewsRx) -- By a News Reporter-Staff News Editor at Science Letter -- Investigators publish new report on marine science. According to news reporting from Qingdao, People's Republic of China, by NewsRx journalists, research stated, "The status of 15 marine fish and invertebrate populations exploited by Chinese, South Korean or Japanese fishing fleets were assessed, using two newly developed computer-intensive methods, CMSY and BSM."

**TD**

Our news editors obtained a quote from the research from Chinese Academy of Sciences: "The results show that among the 15 populations in question, 2 have collapsed, 3 are grossly over-fished and 9 are overfished. Also, we compared results of the CMSY and BSM methods, and it shows that, while the CPUE data for use with the BSM method lead to narrower confidence intervals and may modify the shape of the biomass trajectory, they do not lead to over- or underestimates of terminal B/BMSY values. These results, although still tentative because the methods used to generate them are relatively new, generally match what is known of the status and exploitation of the populations in question, which makes CMSY and BSM to be promising stock assessment approaches in data-sparse situations."

According to the news editors, the research concluded: "Based on our results, a consistent signal is obtained, thus suggesting that a reduction in fishing pressure would be necessary to restore the abundance status of these 15 populations."

For more information on this research see: Assessments of 15 Exploited Fish Stocks in Chinese, South Korean and Japanese Waters Using the CMSY and BSM Methods. *Frontiers in Marine Science*, 2020,7. (*Frontiers in Marine Science* - [http://www.frontiersin.org/Marine\\_Science](http://www.frontiersin.org/Marine_Science)). The publisher for *Frontiers in Marine Science* is Frontiers Media S.A.

A free version of this journal article is available at <https://doi.org/10.3389/fmars.2020.00623>.

Our news journalists report that additional information may be obtained by contacting Cui Liang, CAS Key Laboratory of Marine Ecology and Environmental Sciences, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, People's Republic of China. Additional authors for this research include Weiwei Xian, Daniel Pauly.

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