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Preliminary CPUE standardization analyses using oilfish longliner fisheries data from 2017 to 2023

Chinese Taipei

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Abstract	<p>Oilfish and escolar were both the bycatch species of Taiwanese large-scale tuna longline fleet and usually were categorized as others in the fisheries statistical data. Here, the CPUE standardization analyses of these two species were conducted separately using the statistical information of Taiwanese large-scale longline fleets operated in the Indian Ocean from 2017 to 2023. For the preliminary CPUE standardization analyses, operational catch and effort data was applied for clarifying various characteristics of the targeting of fishing operations. And the cluster analysis was processed to explore the characters of targeting fishing operations for the next step. For the CPUE analyses, the simple delta-lognormal model without interactions was adopted to avoid the confounding from interactions for the CPUE standardizations analyses of each species. As the preliminary results CPUE standardizations of these two species, the CPUE trend of OIL and LEC were both increased with updated data in 2023. The pattern of the CPUE trends in both species were revealed relatively stable status in recently years. For the further researches, it would be helpful to increase the temporal series data of these two species in the Indian Ocean for understanding the implications for the CPUE index</p>

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Recommendations

The delegation recommends that the SC10

- **Notes** that the preliminary CPUE standardisation information was provided in this paper for improving the stock assessment of oilfish fishery in the future.

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