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Accord relatif aux Pêches dans le Sud de l'Océan Indien

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Public data on deep-water sharks for the Workshop

SIOFA Secretariat

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Abstract	
<p>According to SC Circular 2023/04, the secretariat was requested to prepare a dataset of public catch and effort data considering that only a low-resolution dataset could be released.</p> <p>The data analysis methodology is described in this paper.</p> <p>Considering CMM 2016/03 on Data Confidentiality, most of the data could not be released because of the overlapping limitations preventing showing catch and effort records data on a 5° spatial resolution, on a yearly basis and originating from only one vessel at the same time.</p> <p>As a result, the resulting dataset of public catch and effort data is not operational for the objectives of this Workshop.</p>	

¹ Restricted documents may contain confidential information. Please do not distribute restricted documents in any form without the explicit permission of the SIOFA Secretariat and the data owner(s)/provider(s).

² Documents available only to members invited to closed sessions.

1. Introduction

SIOFA SC Circular 2023/04 instructs to provide public domain data for the workshop on deep-water sharks, following the definition of public domain data set in SIOFA CMM 2016/03 (paragraph 2).

The Secretariat used the catch and effort database to check the data confidentiality and to prepare the datasets.

2. Data source and Method

The SIOFA Catch and Effort database has been used to retrieve public domain data, and for making it available to the workshop.

Data collected:

- Year (of operations)
- Month (of operations)
- Gear
- Latitude (rounded to 5° square centroid)
- Longitude (rounded to 5° centroid)
- Species FAO code and scientific name (limited to the deep-water taxa listed in SC Circular 2023/08, annex 1)
- Catch (Kg)
- Effort metrics

3. Data confidentiality analysis:

3.1 Year x month x 5°-square x species

An analysis of data confidentiality has been made for data on a year x month x square basis. The number of different vessels that participated to the total catch was computed.

The analysis revealed that only 2 records out of 871 could be defined as public data. All the other catch record were made by only one vessel, which preclude to disclose them.

3.2. Year x 5°-square x species

Another analysis of data confidentiality has been made for data on a [year, square, species] basis. The number of different vessels that participated to the total catch was computed.

The analysis revealed that only 6 records out of 260 could be defined as public data. All the other catch records were made by only one vessel, which preclude to disclose 254 records.

3.3. Year x species

Another analysis of data confidentiality has been made for data on a [year, species] basis. The number of different vessels that participated to the total catch was computed.

The analysis revealed that only 11 records out of 111 could be defined as public data. All the other catch records were made by only one vessel, which preclude to disclose 100 records.

3.4. Year (all species of DWS)

A last analysis of data confidentiality has been made for data on a [year] basis, species details have been removed. The number of different vessels that participated to the total catch was computed.

The analysis revealed that 14 records out of 20 could be defined as public data. The other 6 catch records were made by only one vessel.

3.5. Year x Gear

Adding information on gear used, reduce furthermore the number of public records.

This analysis revealed that 8 records out of 41 could be defined as public data. The other 33 records were made by only one vessel.

4. Conclusion

The current rules set in CMM 2016/03 are preventing that data originating from only 1 vessel can be made public, which prevent many data to be disclosed³. Therefore, the resulting dataset is considered not operational for the objectives of this Workshop.

³ A broad description of shark bycatches can be found in document SC-08-14 – Overview of SIOFA Fisheries 2023, Section 6.2.3 Target/non-target sharks catch (Confidential)