

CC-04-09

4<sup>th</sup> Compliance Committee of the South Indian Ocean Fisheries Agreement  
(CC4)

09-11 November 2020 (online)

Catch and effort data – 2019 submission summary

*Relates to agenda item: 11*

Working paper  Info paper

SIOFA Secretariat

---

## Abstract

This paper summarizes the provision of the 2018 catch and effort data by CCPs expected to be provided by May 31 2019 under CMM 2019/02 requirements.

The Secretariat assessed the compliance of the submission using a score grid from 0 to 10. Common issues have been reported and some recommendations made for amending the CMM on data standards.

---

## Recommendations *(working papers only)*

CCPs to propose a review of CMM 2019/02 where the compliance with the data standards for specific fisheries is almost impossible to achieve.

---

## Introduction

CMM 2019/02 on data standards provide with the requirements about the data collection and provision to the Secretariat.

Para 4 to 6 are extracted here:

### *Vessel Catch and Effort Data*

#### *Collection of data*

4. CCPs shall ensure that data on fishing activities, including for target, non-target and associated and dependent species such as marine mammals, marine reptiles, seabirds or 'other species of concern', are collected from vessels flying their flag that are fishing in the Agreement Area in accordance with the relevant sections of Annex A.

5. The Scientific Committee shall, by no later than the ordinary meeting of the Scientific Committee in 2019, provide advice and recommendations to the Meeting of the Parties on an appropriate spatial resolution for the collection and reporting of data to facilitate effective stock assessment. Until the Meeting of the Parties, based on the advice of the Scientific Committee, determines an appropriate spatial resolution for the collection and reporting of data, CCPs shall ensure that data are collected on a haul by haul basis.

#### *Data collection and submission*

6. CCPs shall report to the Secretariat, by 31 May each year, the data collected under paragraphs 4 and 5 for the previous calendar year, in accordance with the format prescribed in the corresponding annexes.

This paper focuses on the 2019 catch and effort data submission of the SIOFA CCP fishing activities performed in 2018. Note that the data submitted this year on 31 May 2020 for fishing activities performed in 2019 have not been fully processed into the databases.

The objective is to summarize each CCP submission and assess its quality and compliance against CMM 2019/02 requirements. Only the vessels' catch-and-effort requirements are summarized here

In 2018, 3 CCPs notified the Secretariat of no fishing: Korea (KOR), Seychelles (SYC) and Thailand (THA). The 7 CCPs that fished are required to provide the data to the Secretariat in accordance with CMM 2019/02, namely: Australia (AUS), Comoros (COM), Cook Islands (COK), European Union (EU), France Territories (FR-OT), Japan (JPN) and Mauritius (MUS).

Chinese Taipei and China, that entered the agreement in 2019, are not part of this report.

## Method

The datasets provided to the Secretariat under CMM 2018/02, vessels catch and effort requirements have been assessed using the colours and rating grid below. Details on each rating is provided within the CCP summary.

compliance rate colour codes	
fully compliant with the CMM	Green
not fully compliant, data still usable to do some SC works	Yellow
some info provided, not enough for conducting proper SC work	Orange
no info provided, non-compliant	Red

All data fields required in the CMM have not been listed to avoid a too complex and cumbersome report (there are about 50 fields in Annex A). The Data Manager chose to group the data requirements into several categories listed in the table below.

### Categories and description

Vessel id	information about the identity of the fishing vessels
Time resolution	fishing operations time accuracy, operations aggregation over a period
Spatial accuracy	spatial accuracy of the data provided, data aggregation on a geographic grid
Gear details	provision of fully detailed fishing gears specifications
Effort details	provision of effort (fishing hours, hooks number, etc.)
Depths	start and end fishing bottom depths and fishing depths
Species	Species details (and species identification accuracy)
Retained catches	information on retained catch
Discarded catches	information on discarded catch
incidental bycatch	Incidental bycatch of marine mammals, seabirds, reptiles and 'other species of concern'.

### Notes:

- No cross verification of the data consistency has been done in this document.
- The on-board scientific observers data submissions are not summarized here, but some information required in the catch and effort data submission have been provided under the observer data submission.

## Summary by CCP

### AUSTRALIA

Only a short longline trip was made by Australia in 2018.

Category	data status	
Vessels id	provided	10
Time resolution	date and time of each operation provided	10
Spatial accuracy	minute	8
Gear details	provided	10
Effort details	provided	10
Depths	max and min depth collected; no depth provided	0
Species	a few species provided at a higher taxonomic level than species especially in discards	9
Retained catches	provided	10
Discarded catches	provided	10
incidental bycatch	none reported	10

### COMOROS

Comoros provided the Secretariat with image scans of handwritten vessel logbooks. The Secretariat asked for proper datasets but that was not provided. The Secretariat considers this as a non-provision.

Category	data status	
Vessels id	not provided	0
Time resolution	not provided	0
Spatial accuracy	not provided	0
Gear details	not provided	0
Effort details	not provided	0
Depths	not provided	0
Species	not provided	0
Retained catches	not provided	0
Discarded catches	not provided	0
Incidental bycatch	not provided	0

## COOK IS

Cook provided a big set of data corresponding to the activities of two trawler vessels. The main issue is that the fishing operations and catch are aggregated over one day. No haul by haul data has been provided

Category	data status	
Vessels id	provided	10
Time resolution	day	6
Spatial accuracy	1° grid	4
Gear details	not provided*	
Effort details	number of trawl shots only	4
Depths	not provided	0
Species	provided, usage of "other" to group other unidentified species	7
Retained catches	provided (with the process state)	10
Discarded catches	not provided*	
Incidental bycatch	not provided*	

\* information provided within observer data submission

## EU-SPAIN

EU Spain provided data from 2 longliners activities, the datasets matched the template format.

Category	data status	
Vessels id	provided	10
Time resolution	day	6
Spatial accuracy	minute + 1 decimal	9
Gear details	no info provided	0
Effort details	hooks number	10
Depths	provided	10
Species	provided, some high-level taxa used	9
Retained catches	provided	10
Discarded catches	provided	10
Incidental bycatch	VME data provided, no birds information provided	6

## FRANCE - Overseas Territories

France territories had only 2 days of fishing from one vessel.

Category	data status	
Vessels id	provided	10
Time resolution	haul date-time	10
Spatial accuracy	decimal degree	10
Gear details	only bait provided	4
Effort details	hooks number	10
Depths	provided	10
Species	provided	10
Retained catches	provided	10
Discarded catches	assumed NIL	10
Incidental bycatch	no info provided (provided in observer report)	

## JAPAN

Only trawl operations reported in 2018. No tow-by-tow data provided: aggregation per day and per 30 minutes square

Category	data status	
Vessels id	provided	10
Time resolution	haul aggregated by day	6
Spatial accuracy	hauls aggregated by 30' square	5
Gear details	only mesh size provided	6
Effort details	tow duration	10
Depths	provided	10
Species	provided + usage of other demersal species + others	7
Retained catches	provided (quintal unit used !)	10
Discarded catches	not provided	0
Incidental bycatch	no info provided	0

## MAURITIUS

Nothing has been provided. The Secretariat cannot tell whether fishing occurred or not.

<b>Category</b>	<b>data status</b>	
Vessels id	no info provided	0
Time resolution	no info provided	0
Spatial accuracy	no info provided	0
Gear details	no info provided	0
Effort details	no info provided	0
Depths	no info provided	0
Species	no info provided	0
Retained catches	no info provided	0
Discarded catches	no info provided	0
Incidental bycatch	no info provided	0

## All country summary for vessel catch and effort data categories submission

data categories	AUS	COM	COK	EU	Fr-OT	JPN	MUS
Vessels id	10	0	10	10	10	10	0
Time resolution	10	0	6	6	10	6	0
Spatial accuracy	8	0	4	9	10	5	0
Gear details	10	0		0	4	6	0
Effort details	10	0	4	10	10	10	0
Depths	0	0	0	10	10	10	0
Species	9	0	7	9	10	7	0
Retained catches	10	0	10	10	10	10	0
Discarded catches	10	0		10	10	0	0
Incidental bycatch	10	0		6		0	0

## Notes

**Cook Islands:** Some missing data (\*) has been provided within the observer data submission. The CMM on data standards still requires to provide all catch and effort data (as detailed in Annex A).

**Comoros:** the CMM requires to provide the Secretariat with usable data using the standards described in the CMM (detailed in Annex A)

**Mauritius:** Mauritius did not provide any information in regards of its fishing activities in the SIOFA area in 2018. It is not known whether fishing occurred or not.

## Conclusion and recommendations

Since MoP5 in 2018, CMM 2019/02 requires also to provide the Secretariat with observer data.

There are several categories that are listed both in the observer data requirements and in the catch and effort requirements.

It would be good to review the whole CMM and to clarify, if some information should be provided

twice (industry and scientific observer) or only once from one source clearly defined (industry or scientific observer).

Several fisheries seem to have trouble to comply with the catch and effort data requirement, a typical example is the handline fisheries from Comoros and Thailand, where a haul-by-haul data provision does not seem possible neither as the provision of line lifts. Data requirements for these fisheries could be reviewed and concerned CCPs are invited to suggest new data standards to the SC and to the MoP.

There have still been some issues around the no provision of data for certain items in the templates. It is reminded that CCPs must record a 0 (Zero or No) when an item has been monitored and nothing has been observed (e.g. when no incidental bycatch has been observed on a set or tow then a 0 should be recorded in the dataset 0 for this set/tow).