

5th Meeting of the Southern Indian Ocean Fisheries Agreement (SIOFA) Scientific Committee
March-July 2020

CCP historical data inventory
rev.3

Relates to agenda item: 5.2

Working paper Info paper

SIOFA Secretariat

Abstract

This report is a summary of the historical catch and effort data status. It summarizes the data held within each CCP and the data that has been provided at the Secretariat under CMM 2019/02 on data standards.

It excludes the scientific observer data.

Introduction

Since CMM 2016/02 Data Standards was adopted (now CMM 2019/02 Data standards) CCPs have been required to provide the Secretariat with historical data (prior to 2015, ref CMM 2016/02) for all fishing activities relevant to the SIOFA competence.

This paper summarizes what has been provided to the Secretariat under this requirement as of May 2020, and it also illustrates what is available in the CCPs after the work that has been undertaken during SC4.

New CCPs that entered the agreement in 2018 and 2019 are also included, with the date relevant to their obligation dependent on when they became a CCP. These CCP were not part of the work undertaken last year during SC4.

Historic observer data are also required to be provided to the Secretariat since in 2018, the provision of observer data became mandatory. However, this provision is not presented here as very few CCP achieved it, and clarifications will be requested on whether historical observer data are available in the CCP data holdings and since when their observer programs started. This issue will be dealt in a future SC.

Historical data provision

Historical data requirement is for the data to be provided in a format 'as close as possible to the CMM 2019/02 annexes). This means that if historic data was collected at the haul by haul (HBH) data level, it should be provided at that scale; if the historic data was collected at a coarser level of aggregation, then the data should be submitted to the Secretariat at that scale.

Haul-by-haul data are the detailed data of *each individual fishing operations* (like a line set or a trawl tow) with its exact position, date and time, effort (like hooks number or trawling time), gear specifications, species catch, bycatch, etc. Many CCPs did not provided haul-by-haul historical data and provided it with various modes of aggregation instead (data aggregated on a one-degree square or data aggregated by day or month) for various reasons:

- Data has been lost
- Data has never been collected on HBH scale but at a coarser scale
- Data has been collected on HBH basis but has not been provided to the Secretariat at this scale

Some CCP already provided the Secretariat with the best available data they had. Other CCPs provided the Secretariat with data under various aggregation level but are holding finer level data.

Anyway, any data provided to the Secretariat is still being processed. Therefore, the data manager maintains 3 databases to accommodate data provided by the CCPs:

1. Annual catches summary (SUM)
2. Aggregated catch and effort (AGG)
3. Haul-by-haul catch and effort (HBH)

The work undertaken by SC4 in 2018 (ref. SC4 report annex E) provided detailed information on what data was available in each CCP and what data has been provided to the Secretariat. Table 1 and 2, below, summarizes this status.

Data inventories at the Secretariat versus data available in CCPs

The 2 tables below synthesize the data holding within CCPs and the data available in the Secretariat database.

The following values and colour codes have been used:

colour codes/values	
HBH data	10
AGG data	7
SUM data	4
no data provided	0
data lost or never collected	1
no fishing	n/a
no information on data quality or availability	?

CCP abbreviations:

AU-Australia, CH-China, CM-Comoros, CK-Cook Islands, EUsp-European Union (Spain), EUfr-European Union (France), FR-ot-France Territories, JP-Japan, KR-Korea, MU-Mauritius, SC-Seychelles, TH-Thailand, CT-Chinese Taipei.

Table 1. Summary of historical data available in each CCP (ref. SC4 report annex E, National Reports)

year	AU	CH	CM	CK	EUsp	EUfr	FR-ot	JP	KR	MU	SC	TH	CT
2000	10	4	n/a	n/a	n/a	1	n/a	n/a	7	?	?	n/a	?
2001	10	4	n/a	n/a	n/a	1	n/a	7	7	?	?	n/a	?
2002	10	4	n/a	n/a	n/a	1	n/a	7	7	?	?	n/a	?
2003	10	n/a	n/a	10	10	1	n/a	n/a	7	?	?	n/a	?
2004	10	4	n/a	10	10	1	n/a	7	7	?	?	n/a	?
2005	10	4	n/a	10	10	7	n/a	7	7	?	?	n/a	?
2006	10	4	n/a	10	10	7	10	7	7	?	?	n/a	?
2007	10	4	n/a	10	10	7	10	7	7	?	?	n/a	?
2008	10	4	n/a	10	10	7	10	7	7	?	?	n/a	?
2009	10	4	n/a	10	10	7	10	7	10	?	?	n/a	?
2010	10	4	n/a	10	10	7	10	7	10	?	?	n/a	?
2011	10	4	n/a	10	10	7	10	7	10	?	?	n/a	?
2012	10	4	n/a	10	n/a	7	10	7	10	?	?	n/a	?
2013	10	4	n/a	10	10	7	10	7	10	?	?	n/a	?
2014	10	4	n/a	10	10	7	10	7	n/a	?	?	n/a	?
2015	10	4	n/a	10	10	n/a	10	7	n/a	?	?	7	?
2016	10	4	?	10	10	7	10	10	n/a	?	?	7	?
2017	n/a	4	?	10	10	7	10	7	n/a	?	n/a	7	?
2018	10	n/a	?	10	10	n/a	10	7	n/a	?	n/a	n/a	?

Table 2. Summary of historical data provisioned at the Secretariat by CCP and by year (sources: National Reports, SC4 and SIOFA databases)

year	AU	CH	CM	CK	EUsp	EUfr	FR-ot	JP	KR	MU	SC	TH	CT
2000	10	4	n/a	n/a	n/a	1	n/a	n/a	4	0	0	n/a	0
2001	10	4	n/a	n/a	n/a	1	n/a	7	4	0	0	n/a	0
2002	10	4	n/a	n/a	n/a	1	n/a	7	4	0	0	n/a	0
2003	10	n/a	n/a	7	10	1	n/a	n/a	4	0	0	n/a	0
2004	10	4	n/a	7	10	1	n/a	7	4	0	0	n/a	0
2005	10	4	n/a	7	10	7	n/a	7	4	0	0	n/a	0
2006	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2007	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2008	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2009	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2010	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2011	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2012	10	4	n/a	7	n/a	7	10	7	4	0	0	n/a	0
2013	10	4	n/a	7	10	7	10	7	4	0	0	n/a	0
2014	10	4	n/a	7	10	7	10	7	n/a	0	0	n/a	0
2015	10	4	n/a	7	10	n/a	10	7	n/a	0	0	7	4
2016	10	4	0	7	10	7	10	10	n/a	0	0	7	4
2017	n/a	4	0	7	10	7	10	7	n/a	0	n/a	7	4
2018	10	n/a	0	7	10	n/a	10	7	n/a	0	n/a	n/a	4

The shaded years refer to the historic data submission, defined by CMM 2016/02, the historical years are different for the CPPs that joined after 2016.

Gap analysis

Table 3: gap analysis (blank-no data gap, gap- data missing at the Secretariat, ?-investigation required by CCP)

year	AU	CH	CM	CK	EUsp	EUfr	FR-ot	JP	KR	MU	SC	TH	CT
2000									gap	?	?		?
2001									gap	?	?		?
2002									gap	?	?		?
2003				gap					gap	?	?		?
2004				gap					gap	?	?		?
2005				gap					gap	?	?		?
2006				gap					gap	?	?		?
2007				gap					gap	?	?		?
2008				gap					gap	?	?		?
2009				gap					gap	?	?		?
2010				gap					gap	?	?		?
2011				gap					gap	?	?		?
2012				gap					gap	?	?		?
2013				gap					gap	?	?		?
2014				gap						?	?		?
2015				gap						?	?		?
2016			?	gap						?	?		?
2017			?	gap						?			?
2018			?	gap						?			?

Conclusions

The Secretariat can expect two CCPs to provide finer resolution data, namely Cook Islands and Korea.

More information is required from several CCPs as the SC still do not know what is available or if fishing occurred at all:

- Comoros: what is the status of the data over the recent years
- Mauritius: the SC still do not know about the data status in Mauritius, it is known that some fishing occurred in the past.
- Seychelles: Has there been any fishing in the SIOFA area before 2017, if yes, what data is possible to retrieve from these activities?

Two CCPs joined the Agreement in 2019: Chinese Taipei (CT) and China (CH). The status and quality of the data collected by CT is not defined yet and it will be useful for the SC to know more about it (availability and quality) so CT is invited to inform the SC about the catch and effort data they have. Moreover, under CMM 2019/01, new CCP that enter the agreement requires to provide the Secretariat with historical data within 12 months of becoming a CCP. Historical data would then be up to year 2018.

The Secretariat reminds that CMM 2019/01 requires to provide data on a haul-by-haul resolution as much as possible. It is desirable that CCPs make all possible effort to recover historical data at the finest scale available from logbooks and archives. If some CCP succeed in recovering better data, it will be very useful for the SC to know about that.

It is also recalled that fine level scale data are treated confidential (ref CMM 2016/03 on data confidentiality) and are securely stored at the Secretariat and that the commercial sensitivity of the data should not prevent CCP to provide it.