

SC-05-INFO-02

5th Meeting of the Southern Indian Ocean Fisheries Agreement (SIOFA) Scientific
Committee

SIOFA Observer data and database
rev.2

Please note that National Reports and SC Working Group reports shall be classified as working papers

Relates to agenda item: 5.4.1 and 5.4.2 Working paper Info paper

SIOFA Secretariat

Abstract

Since MoP5 held in June 2018, Observer data are being mandatory to be submitted to the Secretariat according to the specifications provided into annex 2 of CMM 2019/02. This paper presents the Observer database (ODB), its technical structure, content and summarizes the observer data that have been provided to the Secretariat.

Introduction

The observer database is one of the 3 main fisheries databases held at the Secretariat as shown on the figure below. All datasets provided to the Secretariat are recorded in the datasets database (pink) then processed into one of the 3 main database (green). The yellow entities are databases which contain other registries that are used in the 3 main databases (like vessels or people).

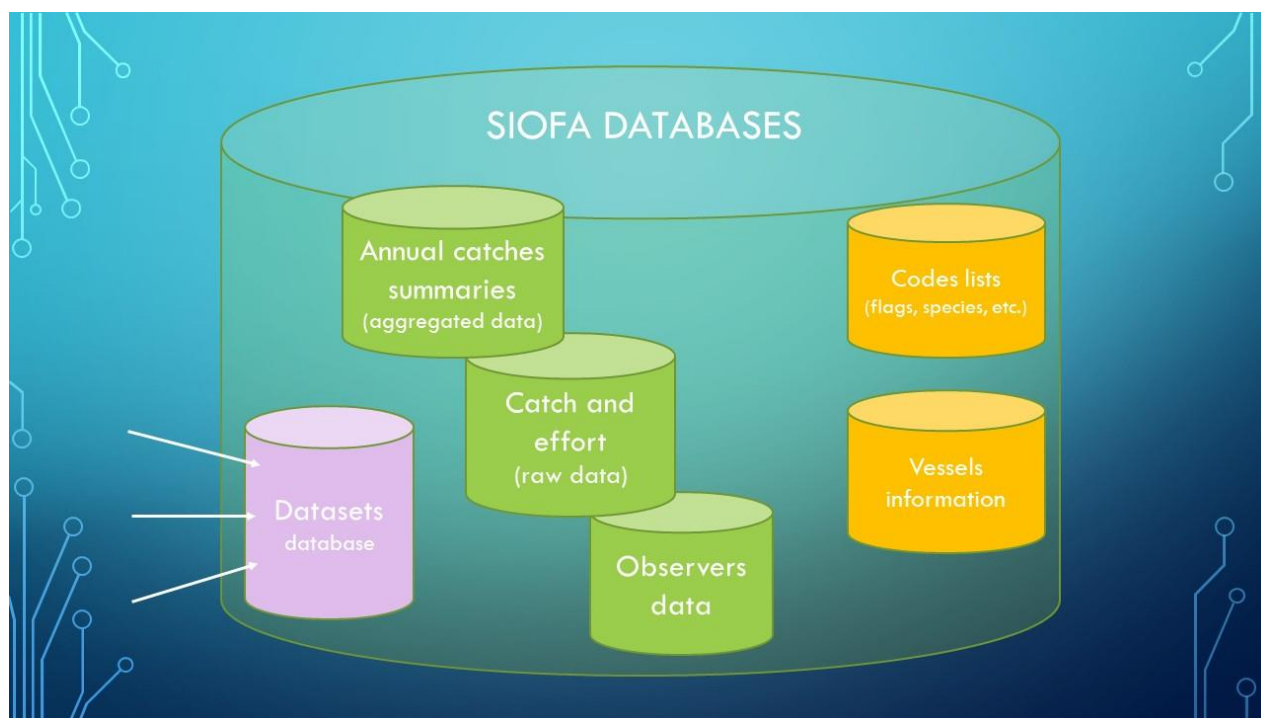
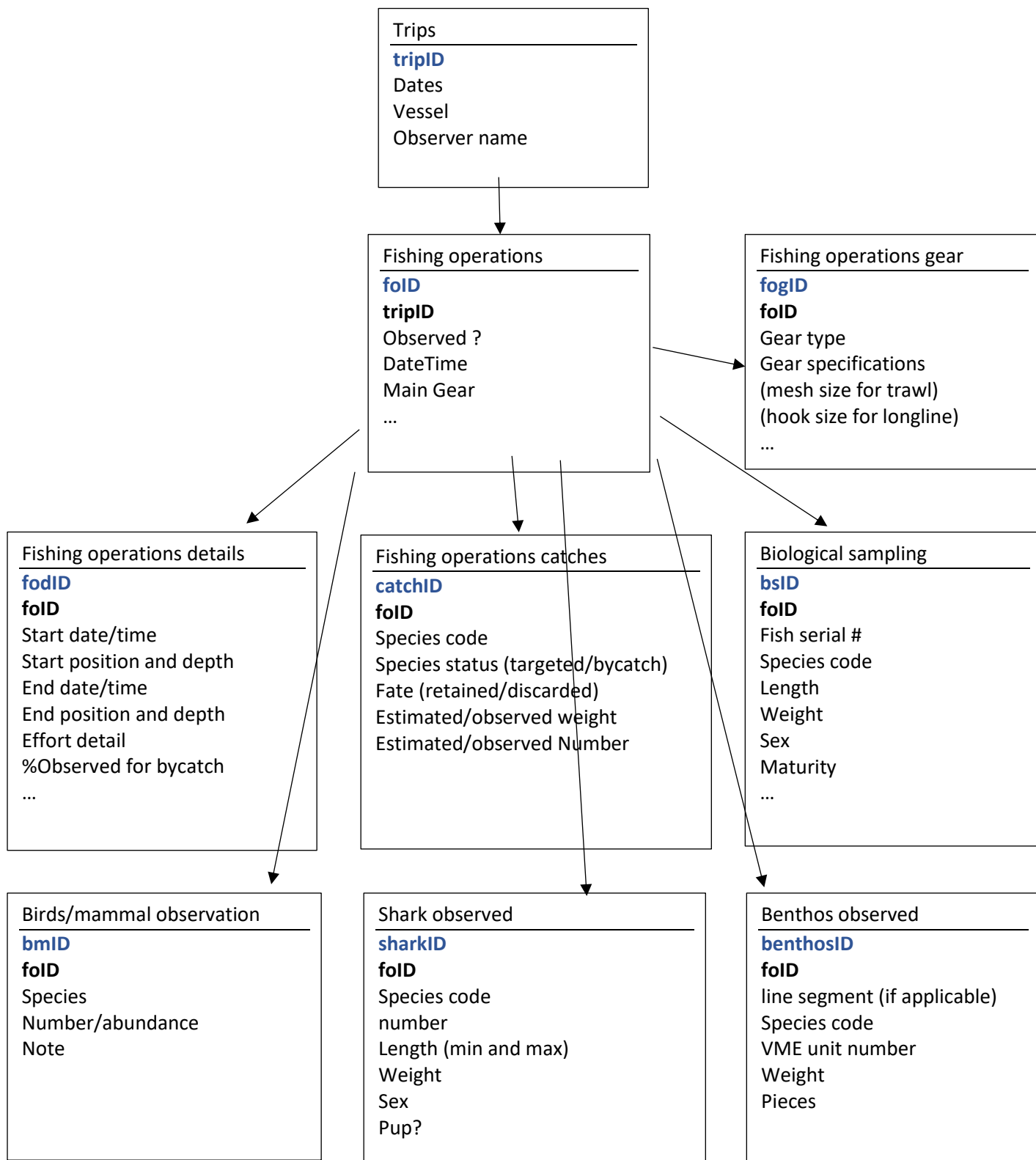


Figure 1: SIOFA databases structures

The observer's database (ODB) has been developed according to the data specifications required by CMM 2019/02 on data standards and holds all the fields that are required to be collected by on-board observers.

The database structures

The ODB is organized into many tables dividing section of the information collected by on-board observers. The general scheme is illustrated below:



The current structure of the database aims to be as simple as possible and to be able to encompass all the data requirements. A simpler structure improves the efficiency and speed of the request and limits errors or omission when performing queries.

The ODB will evolve following the change of the SC requirements and observers' duties. The structure must also be able to accommodate technical evolution in the observer data processing (for example if a standard collection form is adopted)

Part 2: Database content and submission summaries

CMM 2019/02 requires CCP to submit observer data since October 2018 (date of CMM 2018/02 binding), previous observer data have been recommended to be provided to the Secretariat.

The table below summarizes the provision of observer data to the Secretariat.

Column headers are:

1. **CCP**: party 3 letter code
2. **Main Gear**: main gear that was operated in the observer dataset
3. **Period provided**: date interval of the data
4. **DS**: Dataset, the number the submitted dataset generated in SIOFA databases, used for back tracing.
5. **Item provision**

8 data groups have been selected to assess the data provision by CCP. Displaying all the fields listed in the CMM is not efficient as there are too many, the groups provide a good enough overview of the data submission.

The groups are:

- fishing operation: information about the setting and hauling of the fishing gears for each operation
- gear specs: technical specifications of the gear used in the fishing operation (line details, nets details, etc.)
- catches: provision of total catch, weight and/or number by species for each fishing operation assessed by the observer
- bycatch: provision of not targeted species catches information (quantity, species and fate) assessed by the observer
- bio sampling: data collected when the fish are sampled (individual length, or length frequency, weight, maturity, etc.)
- benthos: records of benthic animal bycatch and VME taxa
- shark details (it is not yet precisely required in the CMM but this group has been added as some CCP provided detailed information on shark bycatch)
- bird/mammal: incidental interaction with birds or mammals

6. **Status**: the provision status for each data group listed in the previous column

7. **ODB status**: processing status of the data into the observer database (Recorded, Ongoing, Queued)

CCP	MAIN GEAR	PERIOD PROVIDED	DS	ITEM PROVISION	STATUS	ODB STATUS
AUS	Trawl	2015-12-31 2016-03-16	22	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided (no depth info) provided provided provided provided no information provided (NIL or not recorded) n/a no information provided (NIL or not recorded)	Recorded
AUS	Bottom Longline	2016-01-01 2016-01-23	24	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided (no depth info) not provided provided provided provided no information provided (NIL or not recorded) n/a no information provided (NIL or not recorded)	Recorded
AUS	Drop Line Longline	2018-12-20 to 2018- 12-30	72 73	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided provided provided provided provided no information provided (NIL or not recorded) n/a no information provided (NIL or not recorded)	Queued
CHN	n/a	no fishing since Oct. 2018			China entered the agreement October 2019	
COM (cncp)	Hand line	none		fishing operation gear specs catch	not provided not provided not provided	

CCP	MAIN GEAR	PERIOD PROVIDED	DS	ITEM PROVISION	STATUS	ODB STATUS
				bycatch bio sampling benthos shark details bird/mammal	not provided not provided not provided n/a not provided	
COK	Trawl	2018-2019-02	87 88 89 90 91 92 93	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided (haul position rounded to 1°) provided provided provided provided provided provided provided	Ongoing
EU-FR		NO FISHING		n/a		
EU-ES	Longline	2018-12-13 2019-05-20	94	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided provided provided provided provided provided n/a provided	Queued
FRA		2009-2018 (long history of bio-sampling provided)		fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided provided provided provided NIL (no catch) n/a NIL (no interaction)	Queued

CCP	MAIN GEAR	PERIOD PROVIDED	DS	ITEM PROVISION	STATUS	ODB STATUS
JPN	Longline	2017-10-08 2017-10-16 (ds 50)	50	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided provided provided provided provided n/a no information provided (NIL or not recorded)	Recorded
JPN	Trawl	2016-10-28 2018-01-22	51	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided provided provided no information provided (not recorded) EDR: length provided, BYS: LF table provided no information provided (NIL or not recorded) n/a no information provided (NIL or not recorded)	Queued
JPN	Trawl	2017-12-27 2019-01-16	86	fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	provided provided provided provided BYS: LF table provided no information provided provided NIL observation (no interaction)	Queued
KOR		NO FISHING SINCE BINDING DATE				
MUS	Hand line*			fishing operation gear specs catch bycatch bio sampling	nothing provided	

CCP	MAIN GEAR	PERIOD PROVIDED	DS	ITEM PROVISION	STATUS	ODB STATUS
				benthos shark details bird/mammal		
SYC		NO FISHING SINCE BINDING DATE				
TAI (pfe)	n/a			fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	Chinese Taipei entered the agreement in July 2019, expected observer's data to be submitted by 31/05/2020.	
THA	nothing provided			fishing operation gear specs catch bycatch bio sampling benthos shark details bird/mammal	nothing provided	

The submission of observer data is varying between CCP.

When no information is provided, it also important to indicate whether:

- the item was observed/monitored, and nothing has been observed (NIL or 0 observation)
- the item was not observed/not monitored (not recorded)

Many CCPs did not provided anything to the Secretariat and the reasons of such situation will be discussed during the SC committee or during the Compliance Committee.

