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

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**SC-11-43**

# Feedback on the trial of the new data collection forms

Delegation of France Overseas Territories

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<b>Abstract</b>	
At the 12th Meeting of the Parties (MoP12) changes to the required fields for observer data have been endorsed (CMM-02(2025)) and Excel trial logbooks for observers' data (2025 update) were available for trial phase by CCPs. During 2025, the forms were tested by the FR-OT technical coordinator and data manager in order to propose improvements, particularly in terms of usability, based on their extensive experience. Several cell formats and data validations are here proposed to be added in order to ensure data quality and consistency.	

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<sup>2</sup> Documents available only to members invited to closed sessions.

### Recommendations

- SIOFA SC **considers** these proposals for data form improvements
- SIOFA SC **considers** the provision of these logbook files for data collection on a voluntary basis and for the systematic submission of data.
- SIOFA SC **requests** the Secretariat to implement harmonization between logbook files for data collection and template for data submission.

# Feedback on the trial of the new data collection forms

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## Introduction

At the 12th Meeting of the Parties (MoP12) changes to the required fields for observer data have been endorsed (CMM-02(2025)) and Excel trial logbooks for observers' data (2025 update) were available for trial phase by CCPs.

Three articles in the SC10 report, under agenda item “12.1.1 Presentation of the report of the Workshop on Scientific Observers forms (WS2024-OBS2)” mention the development of the observer logbook and suggestions for improvements to be considered during the logbook trial phase :

*“514. The SC noted that future development of the observer logbooks should include a short form of instruction within the logbook spreadsheets to help with filling them out, e.g. using the "cell comment" function in Excel, in addition to external instructions and the observer manual.*

*515. The SC encouraged the use of dropdown fields or other means of data validation as much as possible in the observer forms during their future development, so as to facilitate data entry and prevent errors.*

*531. The SC tasked the Secretariat to include further improvements to the observer logbooks, including introducing field validation routines and locking cells with the aim to reduce input errors.”*

During 2025, the forms were tested by the FR-OT technical coordinator and data manager in order to propose improvements, particularly in terms of usability, while following the SC report instructions. The main objective being to facilitate the observer's work.

Data quality is directly impacted by the quality of the data collection table provided to the observers and data quality has a huge impact on the results of analyses and models leading to decisions thus we would like to strongly emphasize that the improvement of those logbook is crucial and urgent.

## Methods

We only worked on the trial form for the longline fishery (i.e SIOFA\_Demersal\_Longline\_Observer\_Logbook\_2025) but the propositions can also be applicable to the other forms for the other fisheries.

For each column in each of the logbook spreadsheets, we comment on two things : the cell format (date, integer etc) and the validation (use of dropdown menu, thresholds ...).

These proposals are based on more than two decades of experience in collecting fisheries data using Excel files and monitoring fishery observers.

## Results

The results of our tests of the trial form on cell format and data validation are presented in Annex A.

We also would like to raise several points:

- The need to add a table with versioning to keep track of changes through time linked to a version number
- Each table should start at the same row and each field of data should use a single identifier (Figure 1) to allow script to be run, either to populate the file or to query data, in the current version there is no way to do this
- Add a cell comment (Figure 2) to explain to the user what to do. The text explaining each data field in the Scientific Observer Logbooks instruction manual should be used in these cells comments.
- Add a more comprehensive table explaining the content and purpose of each table based on the Scientific Observer Logbooks instruction manual. All the information needed to fill up the data must be available in the logbook to makes observer's life easier, rather than referring to other documents they might not find easily.

		longline	species	LS	LT	LA	LF
9							
10	unique identifier -->	biological_haul_number	biological_species	biological_SL	biological_TL	biological_AL	biological_FL
11							
12							
13							
14							

Figure 1 : example of the use of a single identifier (Excel line 10 in white wording) for each data field

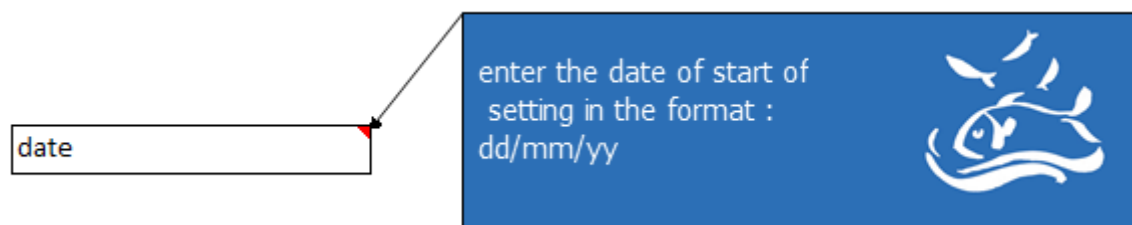


Figure 2 : example of a cell comment

## References

-Report of the Tenth Meeting of the Scientific Committee of the Southern Indian Ocean Fisheries Agreement (SIOFA). SIOFA-SC10-Report.

-The Scientific Observer Logbooks instruction manual

(<https://siofa.org/sites/default/files/observers-resources/Scientific-Observer-Logbooks-instruction-manual.pdf>)

-CMM-02(2025) Conservation and Management Measure for the Collection, Reporting, Verification and Exchange of Data relating to fishing activities in the Agreement Area (Data Standards)

## Annex A

Below is presented a table for each spreadsheet.

## Fishing Gears

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Line ID	row 4	column 2	General	change format to integer		ok
Gear Type	row 4	column 3	General	ok	type 3: liste ( PS (Purse seines no 1.1),LA etc.....	ok
Line Configuration	row 4	column 4	General	ok		need a drop-down menu
Mainline Material	row 4	column 5	General	ok		need a drop-down menu
Mainline Diameter	row 4	column 6	General	change format to decimal		add min max thresholds
Integrated weight (g/m)	row 4	column 7	General	change format to decimal		add min max thresholds
Weight spacing (m)	row 4	column 8	General	change format to decimal		add min max thresholds
Weight type	row 4	column 9	General	ok		need a drop-down menu
Average weight (kg)	row 4	column 10	General	change format to decimal		add min max thresholds
Standard deviation (kg)	row 4	column 11	General	change format to decimal		add min max thresholds
Material	row 4	column 12	General	ok		need a drop-down menu

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Length (m)	row 4	column 13	General	change format to decimal		add min max thresholds
Spacing (m)	row 4	column 14	General	change format to decimal		add min max thresholds
Weight (kg)	row 4	column 15	General	change format to decimal		add min max thresholds
Weight distance from hook (m)	row 4	column 16	General	change format to decimal		add min max thresholds
Snood Material	row 4	column 17	General	ok		need a drop-down menu
Snood Length	row 4	column 18	General	change format to decimal		add min max thresholds
Type (J, C)	row 4	column 19	General	ok		need a drop-down menu
Manufacturer	row 4	column 20	General	ok		ok
Marking	row 4	column 21	General	ok		ok
Model Name	row 4	column 22	General	ok		need a drop-down menu
Size (mm)	row 4	column 23	General	change format to decimal		add min max thresholds
Shank (mm)	row 4	column 24	General	change format to decimal		add min max thresholds
Gape (mm)	row 4	column 25	General	change format to decimal		add min max thresholds

## Mitigation Gears

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Mitigation Gear ID	row 5	column 2	General	change format to integer		add min max thresholds
Type	row 5	column 3	General	ok	type 3: liste ( Streamer line,Bird baffler,Other	ok
Streamer line height above water attached (m)	row 5	column 4	General	change format to decimal		add min max thresholds
Number of streamer lines regularly set	row 5	column 5	General	change format to integer		add min max thresholds
Streamer line position	row 5	column 6	General	ok		need a drop-down menu
Streamer line length (m)	row 5	column 7	General	change format to integer		add min max thresholds
Streamer Length min (m)	row 5	column 8	General	change format to decimal		add min max thresholds
Streamer length max (m)	row 5	column 9	General	change format to decimal		add min max thresholds
Streamer line distance between streamers (m)	row 5	column 10	General	change format to decimal		add min max thresholds
Distance from attachment point to first streamer (m)	row 5	column 11	General	change format to decimal		add min max thresholds
Number of streamers	row 5	column 12	General	change format to integer		add min max thresholds



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Streamer material	row 5	column 13	General	ok		need a drop-down menu
Streamer diameter	row 5	column 14	General	change format to decimal		add min max thresholds
Streamer colours	row 5	column 15	General	ok		need a drop-down menu
Streamer line aerial extent of line	row 5	column 16	General	change format to integer		add min max thresholds
Towed object	row 5	column 17	General	ok		need a drop-down menu
Streamer line method used to assess extent	row 5	column 18	General	ok		need a drop-down menu
Distance from stern to bait entry point	row 5	column 19	General	change format to integer		add min max thresholds
Vertical distance from bait entry point to streamer line	row 5	column 20	General	change format to integer		add min max thresholds

## Fishing Operations

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 5	column 2	General	change format to integer		add min max thresholds
Line ID (ref fishing gear)	row 5	column 3	General	change format to integer		ok
Mitigation Gear1 ID	row 5	column 4	General	ok		need a drop-down menu
Mitigation Gear2 ID	row 5	column 5	General	ok		need a drop-down menu
Mitigation Gear3 ID	row 5	column 6	General	ok		need a drop-down menu
Target Species	row 5	column 7	General	ok		need a drop-down menu
Set type (R/C)	row 5	column 8	General	ok		need a drop-down menu
C&E Operation Identifier	row 5	column 9	General	ok		need a drop-down menu
Setting Observed?	row 5	column 11	General	ok		need a drop-down menu
Date	row 5	column 12	General	change format to date		add min max thresholds
Time	row 5	column 13	General	change format to hh:mm		add min max thresholds

Latitude	row 5	column 14	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude	row 5	column 15	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Bottom depth (m)	row 5	column 16	General	change format to integer		add min max thresholds
Setting speed (knots)	row 5	column 17	General	change format to decimal		add min max thresholds
Setting position (port, starboard, stern)	row 5	column 18	General	ok		need a drop-down menu
Date	row 5	column 19	General	change format to date		add min max thresholds
Time	row 5	column 20	General	change format to hh:mm		add min max thresholds
Latitude	row 5	column 21	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude	row 5	column 22	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Bottom depth (m)	row 5	column 23	General	change format to integer		add min max thresholds
Offal Dumping (Yes/No)	row 5	column 24	General	ok		need a drop-down menu
Main line length (m)	row 5	column 25	General	change format to integer		add min max thresholds
Number hooks set	row 5	column 26	General	change format to integer		add min max thresholds

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Bait Species FAO code(s)	row 5	column 27	General	ok		need a drop-down menu
% Hook baited	row 5	column 28	General	change format to %		add min max thresholds
Deck light during setting	row 5	column 29	General	ok		need a drop-down menu
Bait entry position	row 5	column 30	General	ok		need a drop-down menu
Date	row 5	column 32	General	change format to date		add min max thresholds
Time	row 5	column 33	General	change format to hh:mm		add min max thresholds
Latitude	row 5	column 34	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude	row 5	column 35	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Date	row 5	column 36	General	change format to date		add min max thresholds
Time	row 5	column 37	General	change format to hh:mm		add min max thresholds
Latitude	row 5	column 38	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude	row 5	column 39	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Was haul observed for bycatch?	row 5	column 40	General	ok		need a drop-down menu

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% of the haul observed for bycatch	row 5	column 41	General	change format to %		add min max thresholds
Offal Dumping (Yes/No)	row 5	column 42	General	ok		need a drop-down menu
Nb of sections lost	row 5	column 43	General	change format to integer		add min max thresholds
Nb of hooks attached to section lost	row 5	column 44	General	change format to integer		add min max thresholds
Nb of other hooks lost	row 5	column 45	General	change format to integer		add min max thresholds
Comments	row 5	column 46	General	ok		ok

## Observed Catch

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 4	column 2	General	change format to integer		add min max thresholds
Observer ID	row 4	column 3	General	change format to integer		need a drop-down menu 1 to 3
FAO Species code	row 4	column 4	General	ok	type 3: liste ( AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Weight retained (kg)	row 4	column 5	General	change format to decimal		add min max thresholds
Number retained	row 4	column 6	General	change format to integer		add min max thresholds
Number retained with Tags	row 4	column 7	General	change format to integer		add min max thresholds
Weight discarded (kg)	row 4	column 8	General	change format to decimal		add min max thresholds
Number discarded	row 4	column 9	General	change format to integer		add min max thresholds
Number discarded alive	row 4	column 10	General	change format to integer		add min max thresholds
Number discarded dead	row 4	column 11	General	change format to integer		add min max thresholds
Number of fish lost at surface	row 4	column 12	General	change format to integer		add min max thresholds

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Number of fish cut-off	row 4	column 13	General	change format to integer		add min max thresholds
Number of Fish Depredated	row 4	column 14	General	change format to integer		add min max thresholds
Comments	row 4	column 15	General	ok		ok

## ETP species bycatch

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 4	column 2	General	change format to integer		add min max thresholds
Presence? (Y/N)	row 4	column 3	General	ok		need a drop-down menu
FAO Species code	row 4	column 4	General	ok	type 3: liste (AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Number caught	row 4	column 5	General	change format to integer		add min max thresholds
Number released	row 4	column 6	General	change format to integer		add min max thresholds
Retained	row 4	column 7	General	change format to integer		add min max thresholds
Discarded	row 4	column 8	General	change format to integer		add min max thresholds
Released	row 4	column 9	General	change format to integer		add min max thresholds
Number sampled	row 4	column 10	General	change format to integer		add min max thresholds
Comments	row 4	column 11	General	ok		ok



## Biological

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 4	column 2	General	change format to integer		add min max thresholds
FAO Species Code	row 4	column 3	General	ok	type 3: liste (AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Fish Serial Number	row 4	column 4	General	change format to integer		add min max thresholds
Observer ID	row 4	column 5	General	change format to integer		need a drop-down menu 1 to 3
Total Length (cm)	row 4	column 6	General	change format to decimal		add min max thresholds
Standard Length (cm)	row 4	column 7	General	change format to decimal		add min max thresholds
Snout-Anus Length (cm)	row 4	column 8	General	change format to decimal		add min max thresholds
Pelvic Length (cm)	row 4	column 9	General	change format to decimal		add min max thresholds
Wingspan (cm)	row 4	column 10	General	change format to decimal		add min max thresholds
Length Method	row 4	column 11	General	ok		need a drop-down menu

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Weight (kg)	row 4	column 12	General	change format to decimal		add min max thresholds
Weight Method	row 4	column 13	General	ok		need a drop-down menu
Sex	row 4	column 14	General	ok		need a drop-down menu
Maturity Stage	row 4	column 15	General	change format to integer		need a drop-down menu
Gonad Weight (g)	row 4	column 16	General	change format to decimal		add min max thresholds
Otolith Collected?	row 4	column 17	General	ok		need a drop-down menu
Tag Site Condition (if applicable)	row 4	column 18	General	ok		need a drop-down menu
Additional sample collected	row 4	column 19	General	ok		need a drop-down menu
Sample Storage	row 4	column 20	General	ok		ok
Comments	row 4	column 21	General	ok		ok

## Benthos and VME taxa

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 4	column 2	General	change format to integer	Validation type 1 between 0 and 300	ok
Observer ID	row 4	column 3	General	change format to integer	Validation type 1 between 0 and 300	need a drop-down menu 1 to 3
Presence	row 4	column 4	General	ok	type 3: liste ( Present,Absent,Not monitored	ok
FAO Species Code	row 4	column 5	General	ok	type 3: liste ( AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Scientific Name	row 4	column 6	General	ok	Validation type 5: Time between 00:00:00 and 23:59:00	need a drop-down menu
Quantity	row 4	column 7	General	change format to decimal	Validation type 5: Time between 00:00:00 and 23:59:00	change min max thresholds
Quantity unit	row 4	column 8	General	ok		need a drop-down menu

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Photo reference	row 4	column 9	General	ok		ok
Sample taken for ID	row 4	column 10	General	ok	Validation type 1 between 1 and 100	ok
Status for coral (dead/alive)	row 4	column 11	General	ok	Validation type 1 between 1 and 100	need a drop-down menu
Comments	row 4	column 12	General	ok		ok

## Seabirds

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 4	column 2	General	change format to integer	Validation type 1 between 0 and 300	ok
Observer ID	row 4	column 3	General	change format to integer	Validation type 1 between 0 and 300	need a drop-down menu 1 to 3
Presence	row 4	column 4	General	ok	type 3: liste ( Present,Absent,Not monitored	ok
Observation Time (At setting / At hauling / non observed)	row 4	column 5	General	ok	type 3: liste ( At setting,At hauling,Not observed	ok
Start Observation Time	row 4	column 6	General	change format to hh:mm	Validation type 1 between 0 and 300	change min max thresholds
End Observation Time	row 4	column 7	General	change format to hh:mm	Validation type 5: Time between 00:00:00 and 23:59:00	ok
FAO Species Code	row 4	column 8	General	ok	type 3: liste ( AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed

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Estimated number	row 4	column 9	General	change format to integer	Validation type 1 between 1 and 100	ok
Fishwaste discharge	row 4	column 10	General	ok	type 3: liste Yes; No	ok
Observed feeding	row 4	column 11	General	ok	type 3: liste Yes; No	ok
Comments	row 4	column 12	General	ok		ok

## Mammals

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set ID	row 5	column 2	General	change format to integer		add min max thresholds
Presence	row 5	column 3	General	ok	type 3: liste ( Present,Absent,Not monitored	ok
Presence comment	row 5	column 4	General	ok		ok
FAO Species code	row 5	column 5	General	ok	type 3: liste ( AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Species scientific name (if FAO code not available)	row 5	column 6	General	ok		add a yes no drop-down menu
Photos	row 5	column 7	General	ok		need a drop-down menu
Photo comment	row 5	column 8	General	ok		ok
Minimum number	row 5	column 9	General	change format to integer		add min max thresholds
Maximum number	row 5	column 10	General	change format to integer		add min max thresholds

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Counting comment	row 5	column 11	General	ok		ok
Interaction with fishing gear?	row 5	column 12	General	ok		need a drop-down menu
interaction comment	row 5	column 13	General	ok		ok
ETA (minutes)	row 5	column 14	General	change format to integer		add min max thresholds
ETA comment	row 5	column 15	General	ok		ok



## Tags release

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set_ID	row 4	column 2	General	change format to integer		add min max thresholds
FAO species code	row 4	column 3	General	ok	type 3: liste (AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Length (cm)	row 4	column 4	General	change format to decimal		add min max thresholds
Length type	row 4	column 5	General	ok		need a drop-down menu
Sex	row 4	column 6	General	ok		need a drop-down menu
Tag Type	row 4	column 7	General	ok		add a drop-down menu leaving possibility to add more
Tag Colour	row 4	column 8	General	ok		add a drop-down menu leaving possibility to add more
Tag Number	row 4	column 9	General	ok		add a drop-down menu leaving possibility to add more

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Tag wording	row 4	column 10	General	ok		add a drop-down menu leaving possibility to add more
Tag Type	row 4	column 11	General	ok		add a drop-down menu leaving possibility to add more
Tag Colour	row 4	column 12	General	ok		add a drop-down menu leaving possibility to add more
Tag Number	row 4	column 13	General	ok		add a drop-down menu leaving possibility to add more
Tag wording	row 4	column 14	General	ok		add a drop-down menu leaving possibility to add more
Animal status at release	row 4	column 15	General	ok		need a drop-down menu
Comment	row 4	column 16	General	ok		ok
date	row 4	column 17	General	change format to date		add min max thresholds
time	row 4	column 18	General	change format to hh:mm		add min max thresholds
Latitude	row 4	column 19	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude	row 4	column 20	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds

## Tags recapture

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set_ID	row 4	column 2	General	change format to integer		add min max thresholds
FAO species code	row 4	column 3	General	ok	type 3: liste ( AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
tag type	row 4	column 4	General	ok		add a drop-down menu leaving possibility to add more
tag colour	row 4	column 5	General	ok		add a drop-down menu leaving possibility to add more
tag number	row 4	column 6	General	ok		add a drop-down menu leaving possibility to add more
tag wording	row 4	column 7	General	ok		add a drop-down menu leaving possibility to add more
tag type	row 4	column 8	General	ok		add a drop-down menu leaving possibility to add more

tag colour	row 4	column 9	General	ok		add a drop-down menu leaving possibility to add more
tag number	row 4	column 10	General	ok		add a drop-down menu leaving possibility to add more
tag wording	row 4	column 11	General	ok		add a drop-down menu leaving possibility to add more
length	row 4	column 12	General	change format to decimal		add min max thresholds
length type	row 4	column 13	General	ok		need a drop-down menu
sex	row 4	column 14	General	ok		need a drop-down menu
Maturity Stage	row 4	column 15	General	change format to integer		need a drop-down menu
Gonad Weight (g)	row 4	column 16	General	change format to decimal		add min max thresholds
Tag Site condition	row 4	column 17	General	ok		need a drop-down menu
Samples retained	row 4	column 18	General	ok		add a yes no drop-down menu
Maturity Stage	row 4	column 19	General	change format to integer		need a drop-down menu
recovery while observing?	row 4	column 20	General	ok		need a drop-down menu

## Conversion Factor

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Set_ ID	row 4	column 2	General	change format to integer		add min max thresholds
Observer ID	row 4	column 3	General	change format to integer		need a drop-down menu 1 to 3
FAO Species code	row 4	column 4	General	ok	type 3: liste (AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Processing Code	row 4	column 5	General	ok		need a drop-down menu
Number of fish	row 4	column 6	General	change format to integer		add min max thresholds
Length Type	row 4	column 7	General	ok		need a drop-down menu
Min Length (cm)	row 4	column 8	General	change format to decimal		add min max thresholds
Max Length (cm)	row 4	column 9	General	change format to decimal		add min max thresholds
Total Green weight (kg)	row 4	column 10	General	change format to decimal		add min max thresholds
Weighing method	row 4	column 11	General	ok		need a drop-down menu

Total Processed weight (kg)	row 4	column 12	General	change format to decimal		add min max thresholds
Conversion Factor	row 4	column 13	General	change format to decimal		add min max thresholds

## Birds bands

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Observer ID	row 5	column 2	General	change format to integer		need a drop-down menu 1 to 3
FAO Species code	row 5	column 3	General	ok	type 3: liste (AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Set_ID (if applicable)	row 5	column 4	General	change format to integer		add min max thresholds
Date	row 5	column 5	General	change format to date		add min max thresholds
Time	row 5	column 6	General	change format to hh:mm		add min max thresholds
Latitude (to nearest 1 min)	row 5	column 7	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude (to nearest 1 min)	row 5	column 8	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Type of interaction (with gear, with vessel, no interaction)	row 5	column 9	General	ok		need a drop-down menu

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State of the bird (likely to survive, injured or dead)	row 5	column 10	General	ok		need a drop-down menu
Photo taken? (Yes/No)	row 5	column 11	General	ok		add a yes no drop-down menu
Comments	row 5	column 12	General	ok		ok



## Birds collisions

			cell format		data validation	
header	row	column	used	comment from authors	used	comment from authors
Observer ID	row 6	column 2	General	change format to integer		need a drop-down menu 1 to 3
FAO Species code	row 6	column 3	General	ok	type 3: liste (AAA,AAB,AAC etc	need a drop-down menu with selected species and a list of all species that can be added to this menu if needed
Set_ID (if applicable)	row 6	column 4	General	change format to integer		add min max thresholds
Date	row 6	column 5	General	change format to date		add min max thresholds
Time	row 6	column 6	General	change format to hh:mm		add min max thresholds
Latitude (to nearest 1 min)	row 6	column 7	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Longitude (to nearest 1 min)	row 6	column 8	General	change format to integer and add a minute column in decimal format 00,00		add min max thresholds
Vessel activity (steaming, fishing, etc.)	row 6	column 9	General	ok		need a drop-down menu

Type of interaction (collision, entanglement, landed)	row 6	column 10	General	ok		need a drop-down menu
Description (including location on the vessel, and lighting condition)	row 6	column 11	General	ok		ok
Presence of fog?	row 6	column 12	General	ok		need a drop-down menu
Wind speed (knots)	row 6	column 13	General	change format to integer		add min max thresholds
Wind bearing (degree)	row 6	column 14	General	change format to integer		add min max thresholds
Sea State (Beaufort)	row 6	column 15	General	change format to integer		add min max thresholds
State of the bird (likely to survive, injured or dead)	row 6	column 16	General	ok		need a drop-down menu
Photo taken? (Yes/No)	row 6	column 17	General	ok		add a yes no drop-down menu
Comments	row 6	column 18	General	ok		ok