ANNEX A

SIOFA CMM 2016-02 Data Standards:			
Information need	Verified through EM	Information need	Verified through EM
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Trip Details		For Longline fishing activities ONLY	
Trip Number	Yes	Longline Description	Yes
Cruise details (start and end dates – YYYY.MON.DD)	Yes	Longline Type (FFSSCV)	Yes
Date report is generated (UTC)	Yes	Period in which the gear was used (YYYY.MON.DD)	Yes
Current vessel flag State (ISO 3-apha)	No	Start and end date (YYYY.MON.DD)	Yes
Previous flag (if any) (ISO 3-apha)	No	Target Species (FAO species code)	No
Name of vessel	Yes	Main Line	No
Owner/Charterer	No	Material	No
Name of the Captain	No	Diameter (mm)	No
Name of the Fishing Master	No	Integrated Wt (g/m)	No
Number of Crew	No	Branch Lines	No
Vessel Registration number (flag State)	Yes	Material	No
International radio call sign (if any)	No	Length (M)	Maybe*
Lloyd's / IHS Fairplay /IMO Number (if allocated)	Yes	Spacing (m)	No
Previous Names (if known)	No	Hooks	No
Port of registry (UNLOCODE)	No	Туре	No
Port of Landing (UNLOCODE)	Yes	Make	No
Type of vessel (use appropriate ISSCFV codes, Annex F)	Yes	Total length (mm)	No
Type of fishing method(s) (use appropriate ISSCFG codes,			
Annex E)	Yes	Shank (mm)	No
Length (m)	No	Gape (mm)	No
Beam (m)	No	Throat (mm)	No
Gross Tonnage – GT (to be provided as the preferred unit of			
tonnage), Gross registered tonnage – GRT (to be provided if			
GT not available; may also be provided in addition to GT)	No	Front length (mm)	No
Power of main engine(s) (kilowatts)	No	Usual setting position	Yes
Hold capacity (m3)	No	Line off bottom (m)	No
Fish Meal Hold Capacity (m3)	No	Hooks off bottom (m)	No
Other Hold Capacity (m3)	No	Method of baiting (manual/automatic)	Yes
Net monitoring cable used (Yes/No)	Yes	Automatic baiting equipment (make and model)	No
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Record of the equipment on board which may affect fishing			
power factors (navigational equipment, radar, sonar			
systems, weather fax or satellite weather receiver, sea-			
surface temperature image receiver, Doppler current			
monitor, radio direction finder), where practical	No	Hook sinkers	No
, , , , , , , , , , , , , , , , , , , ,		Size (g)	No
Observer Details		Position from hook (mm)	No
Observer name and ID	N/A	Offal dumping position (port, starboard, stern)	Yes
Nationality (ISO 3-apha)	N/A	longline setting position (port, starboard, stern)	Yes
Employing organisation	N/A	Offal dumping during hauling (never, occasionally, always)	Yes
Contact name in organisation (Address/email/fax)	N/A	Propeller rotation direction (clockwise/anti-clockwise)	No
Boarding location (UNLOCODE, if applicable or			
Latitude/Longitude)	N/A		
		Detail the weight and distance between the line weights for the longline system	
Boarding Date (UTC:YYYY.MON.DD)	N/A	used	
Disembarkation location (UNLOCODE, if applicable or			
Latitude/Longitude)	N/A	Single (Auto) Line (kg:m)	No
Disembarkation date (UTC:YYYY.MON.DD)	N/A	Double (Spanish) Line (kg:m)	No
Time Zone (UTC +-)	N/A	Trotline (vertical droppers/trots attached to a mainline) (kg:m)	No
Length Frequency Data		General Streamer Line Description	
Representative and randomly sampled length-frequency			
data shall be collected for the target species (FAO species			
code)	Maybe*	Vessel equipped with a streamer line (y/n)	Yes
Where possible, representative and randomly sampled			
length-frequency data shall be collected for other main by-			
catch species.	Maybe*	Number of streamer lines regularly set	No
Length data shall be collected and recorded at the most			
precise level appropriate for the species (cm or mm and			
whether to the nearest unit or unit below) and the type of			
measurement used (total length, fork length, or standard			
length) shall also be recorded.	Maybe*	Streamer line position (port, starboard, stern)	Yes
Where possible, total weight of length-frequency samples			
should be recorded, or estimated and the method of			
estimation recorded	No	Streamer line length (m)	No
Where possible, Observers should determine and record sex			
of measured fish to generate length-frequency data			
stratified by sex	No	Streamer length min/max (m)	No
		Attached height above water (m)	No

Biological Sampling		Distance between streamers (m)	No
		Number of streamers	Yes
Species		Streamer design (single or paired)	No
Length (mm or cm), with record of the type of length			
measurement used.	Maybe*	Aerial extent of line (m)	No
Skates and rays:		Method used to assess aerial extent	
maximum disk width shall be measured	Maybe*	Streamer material	Yes
Sharks	Maybe*	Streamer line diameter (mm)	No
Appropriate length measurement to be used should be selected for each species. As a default, total length should			
be measured.	Maybe*	Streamer colours	Yes
Weight (kg)	Maybe*	Streamer line over bait entry position? (y/n/u)	Yes
Sex (male, female, immature, unsexed)	Maybe*		No
Maturity stage (and criteria/schedule used)	No	Distance from stern to bait entry point (m) Towed object (Y/N)	Yes
Gonad weight (g)		Horizontal distance from bait entry point to streamer line (m)	No
	No	norizontal distance from balt entry point to streamer line (iii)	INO
Otoliths	No	Deily estating absorptions	
Instidental continue of continue managed trutter and other		Daily setting observations	
Incidental capture of seabirds, mammals turtles and other		Cat Never have for order and in each have deffect to a	V
species of concern		Set Number (as referenced in catch and effort log)	Yes
The following data shall be collected for all seabirds,			
mammals, turtles and other species of concern caught in		Cat Turner December of Communication (D/C)	V
fishing operations:		Set Type: Research or Commercial (R/C)	Yes
		Longline Type Code (FSSCV)	Yes
Species (identified taxonomically as far as possible, or			
accompanied by photographs if identification is difficult) and		Taskling asked and advised daying and (V/N)	
size	Yes	Trotline cetacean exclusion device used (Y/N)	Yes
Estimated species abundance around fishing vessel	Yes	Date of observation (YYYY/MON/DDy)	Yes
Species interactions with fishing gear	Yes		
Count of the number of each species caught per tow or set	Yes	Setting information	
Fate of bycatch animal(s) (retained or released/discarded)	Yes	Vessel setting speed (knots)	Yes
If released, life status (vigorous, alive, lethargic, injured,			
dead) upon release	Yes	Number sets unobserved since last set	Yes
If injured, what was the cause of injury?	Yes		
If dead, then collect information or samples for onshore			
identification in accordance with pre-determined sampling			
protocols. Where this is not possible, observers may be			
required to collect sub-samples of identifying parts, as			
specified in biological sampling protocols	No	Start and End setting for each haul	

Record the type of interaction (hook/line			
entanglement/warp strike/net capture/other) if other,			
describe	Yes	Date (YYYY/MON/DD)	Yes
Sex of each individual for taxa where this is feasible from	163	Date (1111/WOW)	163
external observation, e.g. pinnipeds, small cetaceans or			
Elasmobranchii species	Maybe*	Time (hh:mm)	Yes
identify any circumstances or actions that may have	iviaybe	Time (m.mm)	res
contributed to the bycatch event? (E.g. tori line tangle, high	W	Laktuda	V
levels of bait loss)	Yes	Latitude	Yes
To a December		Longitude South (vs)	Yes
Tag Recoveries		Bottom Depth (m)	Yes
The following data shall be collected for all recovered fish,			
seabird, mammal or reptile tags if the organism is dead, to			
be retained, or alive:		Total length of longline set (km)	Maybe*
		Total number of hooks for the set	No
Name of observer	No		
Name of vessel	No	For each Observation	
International radio call sign (if any)	No	Start date (YYYY.MON.DD)	Yes
Vessel flag State (ISO 3-apha)	No	Start time (hh:mm)	Yes
Collect, label (with all details below) and store the actual			
tags for later return to the tagging agency	No	End date (YYYY.MON.DD)	Yes
Species from which tag recovered	Yes	End time (hh:mm)	Yes
Tag colour and type (spaghetti, archival)	Yes		
Tag numbers	No	Details of Longline Setting	
Date and time of capture (UTC)	No	Main line length (m)	Maybe*
Location of capture (Lat/Lon, to the nearest 1 minute)	Yes	Number of hooks set	No
Animal length / size (cm or mm) with description of what	163	INDITIDET OF HOOKS SET	110
measurement was taken (such as total length, fork length,	1 4 a la a *	Number of Postate /Magazines Cot	Vac
etc)	Maybe*	Number of Baskets/Magazines Set	Yes
Sex (F=female, M=male, I=indeterminate, D=not examined)	Maybe*	Number of hooks per Basket/Magazine	No
Whether the tags were found during a period of fishing that			
was being observed (Y/N)	Yes	Percentage hooks baited	No
		Distance between branches (m)	No
Hierarchies for Observer Data collection		Distance of hooks off bottom (m)	No
Fishing Operation Information	Yes	Bait species (FAO species code)	Yes
All vessel and tow / set / effort information.	Yes	Deck lights during setting (On, Off)	Yes
,		Streamer lines used (Yes, No)	Yes
Reporting of Catches	Yes	Number of streamer lines used	Yes
	1 - = 2	The state of the s	1

Record time, weight of catch sampled versus total catch or			
effort (e.g. number of hooks), and total numbers of each			
	Vac	Offel duraning during setting (Voc. No.)	V
species caught Identification and counts of seabirds, mammals, reptiles	Yes	Offal dumping during setting (Yes, No)	Yes
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(e.g. turtles), sensitive benthic species and vulnerable			.,
species	Yes	Bait entry position (Port, Starboard, Stern)	Yes
Record numbers or weights of each species retained or			
discarded	Yes		
Record instances of depredation, where appropriate	No	Daily hauling observations	
		Set number	Yes
Biological Sampling		Date of observation (YYYY.MON.DD)	Yes
Check for presence of tags	No		
Length-frequency data for Target species (FAO species code)	Maybe*	Hauling Information	
Basic biological data (sex, maturity) for Target species (FAO			
species code)	No	Number of hooks observed for seabird and fish by-catch (tally period)	Yes
Length-frequency data for main by-catch species	No	Offal dumped during hauling (Yes / No)	Yes
Otoliths (and stomach samples, if being collected) for Target			
species (FAO species code)	No		
Basic biological data for by-catch species	No		
Biological samples of by-catch species (if being collected)	No	Gear lost	
Take photos	Yes	Number of sections lost	No
		Number of hooks lost that were attached to lost sections of the longline	No
For trawl fishing activities ONLY		Number of other hooks lost (excluding hooks attached to lost sections)	No
Gear details	No	Observed catch composition	
Net ID	No	Was Haul observed for fish/invertebrate by-catch (Y/N):	Yes
Net type (ISSFCV)	No	Estimate percentage of the haul observed for by-catch (%)	Yes
Headrope length (m)	No		
Groundrope length (m)	No	Species	
Bobbin diameter (cm)	No	Species code (FAO species code)	Yes
Otterboard to wing length (m)	No	Total retained catch weight (kg)	No
Horizontal Opening (m)	No	Total discarded catch weight (kg)	No
Vertical Opening (m)	No		
		Species Retained	
Codend mesh		Observed number retained	Yes
Mesh size (cm), codend circumference (cm), Orientation	No	Observed number retained with tags	No
Mesh type (diamond, square, etc)	No	and the same of th	110
intestraçõe (diditiona, square, etc)	1	Species Discarded	+
iviesii type (diamond, square, etc)	INU	Cuasias Discouded	

Otterboard		Observed number discarded	Yes
Type, weight (kg)	No	Observed number discarded dead	Yes
71 7 6 (37		Observed number discarded alive	Yes
Net design			
Net design description including make, model etc	No	Species Lost	
		Observed number lost/dropped off at surface	Yes
Trawl details			
Trawl Number	No	Interactions with Vulnerable Marine Ecosystems (VME)	
Gear	Yes		
Trawl type: Research or Commercial (R/C)	No	General information	
Observed (Yes/No)	Yes	Name of observer	N/A
Target Species (FAO species code)	No	Name of vessel	Yes
Date Start (YYYY.MON.DD)	Yes	Date	Yes
Date Finish (YYYY.MON.DD)	Yes	Trip number	Yes
Time net deployed (hh:mm)	Yes	Set number	Yes
Time net retrieved (hh:mm)	Yes		
	Yes	VME location	
		Start and end positions of all gear deployments and/or observations.	
Start and End Fishing	Yes	(Latitude/longitude)	Yes
(For Trawl fishing – "start" is defined as when the otterboard is on the bottom, "end" is when the tow ends)		Depth(s) fished (m)	No
Time (hh:mm)	Yes	Fishing Gear	
Latitude	Yes	Indicate fishing gears used at each location	
Longitude	Yes		
Trawl Depth (m)	No	VME Taxa	
		a) Species (identified taxonomically as far as possible, or accompanied by a	
Bottom Depth (m)	No	photograph where identification is difficult).	Maybe*
		b) An estimate of the quantity (weight (kg) or volume (m3)) of each listed benthic	
		species caught in the tow.	Maybe*
		c) An overall estimate of the total quantity (weight (kg) or volume (m3)) of all	
Other		invertebrate benthic species caught in the tow.	Maybe*
		d) Where possible, and particularly for new or scarce benthic species which do not	
		appear in ID guides, whole samples should be collected and suitably preserved for	
Offal discharged during shooting (Y/N)	Yes	identification on shore.	No
		5) Collect representative biological samples from the entire VME catch. (Biological	
		samples shall be collected and frozen when requested by the scientific authority in	
		a Contracting Party). For some coral species that are under the CITES list	
Offal discharged during hauling (Y/N)	Yes	photographs should be taken.	No
Trawl speed (knots)	Yes		

Horizontal opening (m)	No		
Total catch (kg)	No		
Total catch (NS)	110		
Observed catch composition			
Observer ID	No		
OBSCITCI ID	110		
Was Haul observed for fish/invertebrate by-catch (Y/N):	Yes		
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Record the total weight of all sub-samples for this shot (kg):	No		
7 1 7 0			
Species			
FAO species code	Yes		
Scientific name	Yes		
Total retained catch weight (kg)	No		
Total discarded catch weight (kg)	No		_
Bycatch mitigation measures employed:			_
Were bird scaring (tori) lines in use? (Yes/No)	Yes		
Were bird bafflers in use? (Yes/No)	Yes		
Trawl warp strike (to be monitored for 15 minutes			
immediately after the net has been deployed).			
Trawl number	Yes		
Name of observer	N/A		
Start observation time (hh:mm)	Yes		
End observation time (hh:mm)	Yes		
Number of heavy warp strikes (record for Albatross, Giant			
Petrels, White chinned petrels, Other petrels)			
Air	Maybe*		
Water	Maybe*		
Sinker	Maybe*		
Seabird abundance observation			
Seabirds present in observation area (y/n)	Yes		
Estimated numbers of abundance (by species)	Yes		