

# Resolution 23/08 On Electronic Monitoring Standards for IOTC Fisheries

## – Regional Observer Scheme EMS-Vessel Monitoring Plan & EMS fleet level ROS data collection



### General Information

**Year of adoption: 2023 --- Date of application: 1 July 2024.**

**In line with the completion of Part A and C is NOT REQUIRED, and the completion of Part B is MANDATORY.**

#### **Information required: EMS Vessel Monitoring Plan**

Paragraph 3b:

*CPCs, who fish for species under the competence of the IOTC, and who choose to implement EMS in the IOTC area of competence to partially or fully meet the minimum ROS data requirements under Resolution 22/04 (or any subsequent revision), shall:*

*b) submit to the IOTC Secretariat by 1 July each year, a Vessel Monitoring Plan, that covers each vessel in their IOTC fishery utilizing EMS, outlining the EMS setup on each vessel, consistent with the requirements in the EM Program Standard (Annex 1) and making use of guidance in Annex 3 (Vessel Management Plan Guide).*

#### **Information required: EMS fleet level ROS data collection (table)**

Paragraph 3d:

*CPCs, who fish for species under the competence of the IOTC, and who choose to implement EMS in the IOTC area of competence to partially or fully meet the minimum ROS data requirements under Resolution 22/04 (or any subsequent revision), shall:*

*d) submit to the IOTC Secretariat by 1 July each year, a fleet level ROS data collection table, clearly specifying for each ROS minimum required data field as specified :*

- i. The data field name and description*
- ii. The data field reporting requirement level (i.e, mandatory collection and reporting, mandatory reporting if collected, not mandatory etc)*
- iii. the data collection method used to collect data for that field,*
- iv. a brief description of the data collection method*

**Year reported on / Year assessed: 2024**

### Application

This requirement is applicable to CPCs that implement EMS in the IOTC area of competence and have a) fishing vessels of 24 meters length overall and above and under 24 meters, if they operate outside the exclusive economic zone (EEZ) of the flag CPC and in the IOTC area of competence and are on the IOTC Record of Authorised Vessels.

- Vessel: On RAV
- Species: IOTC
- Area: IOTC Area of competence
- Fishing gear: ALL fishing gears
- Fishery type: ALL fisheries

### Reporting obligation **CR N°9.4, CQ**



**Note:** Your response to this requirement will be used by e-MARIS to compile your country reports: Compliance Report and Implementation Report (IR)

(Text of sections/questions in blue colour will be in your IR with your responses - ensure they are completed before submitting).

**1. Did you submit the data/report/information of this reporting obligation in 2024 ? (CQ) :**

- 1 . NIL Report / Not Applicable - NO fishing vessels of 24 meters length overall and above in the Record of authorised vessels or active in 2024 AND/OR No fishing vessels under 24 meters operating outside the EEZ in the Record of authorised vessels or active in 2024.
- 2 . NIL Report / Not Applicable - CPCs is NOT IMPLEMENTING National EM Programs (NEMPs) and EM systems on flagged vessels in 2024.
- 3 . NIL Report / Not Applicable - CPCs is NOT IMPLEMENTING the ROS at sea - Observer embarked on flagged vessels in 2024.
- YES - Submitted
- NO - Not submitted

**If the option "NIL Report / Not Applicable" is selected, the below sections are not required to be completed.**

**If the options "YES" or "NO" are selected, the section B is required to be completed.**

## **A - System / procedures**

**In line with CoC21 Report (para. 94) the completion of Part A and C is NOT REQUIRED, and the completion of Part B is MANDATORY.**

94. The CoC21 AGREED that, the IOTC Secretariat shall not require CPC to provide the internal systems and procedures in accordance with paragraph 5.c)ii)2. of Appendix V of the IOTC Rules of Procedure, and national laws & regulations, in accordance with paragraph 5.c)ii)1. of Appendix V of the IOTC Rules of Procedure, to implement reporting obligations that are addressed to CPCs.

## B - Reporting data and information



### 2. CPC is implementing the regional observer scheme at sea using electronic monitoring systems (EMS) AND/OR embarked observers at national level for (CQ):

- Fishing vessels of 24 meters length overall and above
- Fishing vessels under 24 meters operating outside the EEZ
- Coastal / artisanal vessels

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### a. Vessel Monitoring Plan supporting observer programs (at sea) EMS

### 3. The Vessel Monitoring Plan supporting observer programs (at sea) EMS, reported to the IOTC Secretariat (CQ):

- YES – Complete
  YES - Partially
  NO

[Template Vessel Monitoring Plan \(VMP\) EMS](#)

Gear/fishery	Number of Plans (VMP) submitted	Additional information ? Each vessel should develop a "Vessel Monitoring Plan"	Upload the Vessel Monitoring Plans EMS
GI - Gill-nets	-	-	-
HL - Hooks and lines	-	-	-
LL - Longlines	-	-	-
PL - Pole-and-lift	-	-	-

			-
<b>PS - Purse seines</b>	-	-	-
<b>OT - Other gears</b>	-	-	-

If other gear/fisheries is reported - Specify:

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**If not uploaded in the table above UPLOAD ALL the Vessel Monitoring Plans supporting observer programs (at sea) EMS (CQ) :**

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## b. Fleet level ROS data collection (table), supporting observer programs (at sea)

### 4. The fleet level ROS data collection table, supporting observer programs (at sea) EMS,- reported to the IOTC Secretariat (CQ):

(Specifying for each ROS minimum required data field)

YES – Complete for all sections/all fisheries applicable

NO - Partially - Missing some sections/fisheries applicable

NO – NOT complete for all sections/all fisheries applicable

#### If Yes - Complete the table below

Note - For Reporting requirement level column

1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**

2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**

3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "".**

# GENERAL VESSEL AND TRIP INFORMATION FOR ALL VESSEL TYPES

## GENERAL VESSEL AND TRIP INFORMATION FOR ALL VESSEL TYPES



Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description of data collection method
<b>Observed trip number</b>	Record trip unique identifier. This is the observed trip unique identifier. This should begin with trip's start date (YYYY-MM-DD), followed by IOTC observer number, and vessel main gear code as per IOTC classification (E.g. 2018/01/23-IOTCFR)	-	-	-

### OBSERVER IDENTIFICATION

<b>Observer IOTC registration number</b>	Record observer registration number allocated by the IOTC Secretariat to be used on all observer data submissions.	-	-	-
<b>Observer name</b>	Record the name of the scientific observer(s) that collected the data on-board the fishing vessel.	-	-	-
<b>Observer nationality</b>	Record the nationality of the scientific observer as it appears in passport	-	-	-

### OBSERVER TRIP DETAILS

<b>Location of</b>	Record the name and/or geographi-	-	-	-
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<b>embarkation</b>	cal coordinates of the port where the observer boarded the vessel – also include the country. If the observer embarked via a port launch within port limits, this is still recorded as a port embarkation. If the observer embarked at sea outside port limits via a vessel transfer, record “at sea” and record the position in Latitude and Longitude.			
<b>Date / time embarkation</b>	Record the date and time that the observer boarded the vessel.	-	-	-
<b>Location of disembarkation</b>	Record the name and/or geographical coordinates of the port where the observer boarded the vessel – also include the country. If the observer embarked via a port launch within port limits, this is still recorded as a port embarkation. If the observer embarked at sea outside port limits via a vessel transfer, record “at sea” and record the position in Latitude and Longitude.	-	-	-
<b>Date / time disembarkation</b>	Record the date and time that the observer disembarked from the vessel.	-	-	-

VESSEL IDENTIFICATION

<b>Name of the vessel</b>	Record the vessel full name as recorded on vessel official documentation and cross-checked with the name recorded on the vessel itself	-	-	-
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	(any discrepancies are to be reported to the IOTC Secretariat).			
<b>Vessel flag state (or where chartering occurs, chartering state)</b>	Record the name of country in which vessel is registered as shown on its registration documents (Table 9). Where chartering occurs, record name of the chartering country.	-	-	-
<b>Vessel IOTC number</b>	Vessel IOTC number as per the IOTC Record of Authorized Vessels and crosschecked with the number recorded on vessel certificates.	-	-	-
<b>Vessel IMO or Lloyd's number</b>	Record vessel IMO number. This is the number allocated to the vessel when registered to the International Maritime Organization of the United Nations (e.g.: IMO8814275).	-	-	-
<b>International radio call sign (IRCS)</b>	Record vessel radio call sign if available. This is the number displayed prominently on the vessel's side or superstructure.	-	-	-
<b>Vessel port of registration</b>	Record the name of vessel's port of registry (also called home port) shown on its registration documents and lettered on the stern of the ship's hull – also include the country.	-	-	-
<b>Vessel registration number</b>	Record the number issued by country in which the vessel is registered, shown on its	-	-	-



	registration documents and written on the hull of the vessel. This may be a combination of characters and numbers; record them all (e.g.: CBG303).			
<b>Vessel phone, fax and email</b>	When available, record vessel contact details, taking note of the ocean region code. A vessel may have several contact numbers and email addresses depending on the satellite communications systems installed onboard; record them all.	-	-	-
<b>Licensed target species</b>	Record licensed target species (FAO spp. 3-alpha code) as specified in vessel licences or permit conditions (Table 1, Table 2, Table 3, Table 4, Table 8). Vessels will generally target a narrow range or aggregation of species, however one or more might not be an IOTC species; record them all.	-	-	-
<b>Main fishing gear</b>	Record vessel main fishing gear (Table 10).	-	-	-

#### VESSEL OWNER AND PERSONNEL

<b>Registered owner</b>	Record the owner's name, nationality and contact details in full. These can be obtained or cross-checked on the vessel registration forms.	-	-	-
<b>Charterer / operator</b>	Where the vessel has been char-	-	-	-

	tered and is operated and managed by a company other than the owner, record operator's full name (company or individual as appropriate), nationality and contact details.			
<b>Fishing Master</b>	Record the fishing master name and nationality in full	-	-	-
<b>Skipper</b>	Record skipper name and nationality in full	-	-	-
<b>Crew number</b>	Record the number of crew. This should be cross checked against the vessel's crew list.	-	-	-

#### VESSEL TRIP DETAILS

<b>Port of departure</b>	Record the name and/or geographical coordinates of the port from where the vessel sailed – also include the country. If the vessel started a new trip at sea following transshipment record 'at-sea' plus the geographical coordinates corresponding to the location the trip started.	-	-	-
<b>Date / time vessel sailed</b>	Record the date and time the vessel departed from port or from a transshipment location.	-	-	-
<b>Port of return</b>	Record the name and/or geographical coordinates of the port where the vessel returned – also include the country. If the vessel arrived at a	-	-	-

	transhipment location record 'at-sea' plus the geographical coordinates corresponding to the location the transhipment started. If the observer disembarked before the vessel returned then record expected port of return as provided by the vessel.			
<b>Date / time vessel returned to port</b>	Record the date and time the fishing vessel finishes its fishing campaign. i.e. returns to port or to a transhipment location for unloading. If the observer disembarks before the vessel returns then record expected date and time of arrival (ETA) as provided by the vessel.	-	-	-

VESSEL ATTRIBUTES

<b>Tonnage</b>	The vessel tonnage as specified in vessel registration papers.	-	-	-
<b>Length overall</b>	The vessel overall length (LOA) as specified in vessel registration papers.	-	-	-
<b>Hull material</b>	Record the vessel hull material (s) (steel, wood, aluminium, fibre glass, etc.)	-	-	-
<b>Main engines (make and power)</b>	The make (brand) and power of the main engines.	-	-	-
		-	-	-

<b>Fish storage capacity</b>	The vessel total maximum capacity to store catches. This should include blast freezer(s) capacity.			
<b>Fish preservation methods</b>	Fish preservation methods: Record the method(s) used by the vessel to preserve the catch	-	-	-
<b>Fish storage type</b>	Record the type of structure(s) present on-board used by the vessel to store the catch	-	-	-
<b>Vessel autonomy / range</b>	Record vessel autonomy, expressed by the time (days) a vessel can spend at sea without refuelling. If this information is not available then record vessel range expressed in cruising distance (nautical miles). If a figure for the range cannot be obtained, the observer should calculate vessel range as follows. <Vessel range (nm)> = <Vessel average cruising distance per metric ton (nm/mT)> : <Tonnage of fuel carried (mT)>	-	-	-

#### VESSEL ELECTRONICS

<b>Global Positioning System (GPS)</b>	Indicate Yes if on board No if not sighted.	-	-	-
<b>Vessel Monitoring Systems (VMS)</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Radars</b>		-	-	-

	Indicate Yes if on board No if not sighted.			
<b>Track Plotter</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Depth Sounder</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Sonar</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Doppler Current Meter</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Expendable bathythermographs (XBT)</b>	Indicate Yes if on board No if not sighted. XTBs are usually mounted on the bridge wings.	-	-	-
<b>VHF radios</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>HF radios</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Satellite communication systems</b>	Indicate Yes if on board No if not sighted	-	-	-
<b>Sea Surface Temperature (SST) gauge</b>	Indicate Yes if on board No if not sighted. SST gauge is usually mounted on the bridge.	-	-	-
<b>Weather facsimile</b>	Indicate Yes if on board No if not sighted.	-	-	-
<b>Fisheries information services</b>	Indicate Yes or No if the vessel has access to a	-	-	-

	Fisheries information service.			
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WASTE MANAGEMENT (MARPOL Agreement Annex 5)

<b>Waste category</b>	Record the category of the waste produced by the vessel (Table 14).	-	-	-
<b>Storage/Disposal method</b>	Record how the waste was disposed of (Table 15).	-	-	-

OBSERVED TRIP SUMMARY

<b>Number of fishing events/sets conducted by the vessel while the observer was on-board.</b>	Record the total number of fishing events/sets conducted by the vessel while the observer was on-board, independently of their success and of being sampled or not by the observer.	-	-	-
<b>Number of fishing events/sets observed</b>	Record the total number of fishing sets/events monitored by the observer.	-	-	-
<b>Number of days searching</b>	Record the total number of days that the vessel was engaged in actively searching for fish (this includes active fishing days).	-	-	-
<b>Number active fishing days</b>	Record the total number of days that the vessel actually fished (i.e. when the vessel had gear in the water).	-	-	-
<b>Number of days lost</b>	Record the total number of days where a vessel was unable to fish due	-	-	-

	to factors such as adverse weather conditions, mechanical failure or other unforeseen events.			
<b>Reason(s) for days lost</b>	Record the reason(s) a vessel was unable to fish: (i) adverse weather conditions, (ii) mechanical breakdown or inoperative gear or (iii) unforeseen events (specify).	-	-	-
<b>Number of days in the fishing area</b>	Record the number of days the vessel spent in the fishing area while the observer was on-board. This does not include transit time even if the area being transited is within the fishing area	-	-	-
<b>Number of days transiting</b>	Record the number of days the vessel spent steaming or transiting to/between/from fishing areas while the observer was on-board.	-	-	-

# LONGLINE INFORMATION

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Note - For Reporting requirement level column

- 1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**
- 2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**
- 3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "[IOTC Regional Observer Scheme \(ROS\) Data Collection Fields](#)".**

Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description data collection method
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### Gear specifications

#### SPECIAL EQUIPMENT OR MACHINERY

<b>Line setter</b>	Indicate Yes if on board No if not sighted. Many long line vessels will be fitted with equipment or machinery that regulates line setting speed allowing the line to be set at uniform depth.	-	-	-
<b>Line hauler</b>	Indicate Yes if on board No if not sighted. Most long line vessel will be fitted with equipment or machinery that hauls the line in after it has been set.	-	-	-
<b>Bait casting machine</b>	Indicate Yes if on board No if not sighted. Most vessels manually deploy branch lines with the bait. However there are a number of vessels that use automat-	-	-	-



	ic bait casting machines.			
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GENERAL GEAR ATTRIBUTES

<b>Main line material</b>	Record the material the mainline is made out of, e.g. kevlar, nylon, nylon multifilament (Table 16).	-	-	-
<b>Main line length</b>	Record the total length of the mainline (i.e. mainline maximum length). This information can be obtained from the Captain or Fishing Master.	-	-	-
<b>Main line diameter</b>	Record the diameter of the mainline. This information can be obtained from the Captain or crew and cross-checked by measuring mainline diameter with calipers.	-	-	-
<b>Branch line configuration number</b>	Unique number for a specific branchline specification as detailed based on the fields below.	-	-	-
<b>Branch line material</b>	Record the branchline material for each of the four sections where section 1 is that closest to the mainline and section 4 is the leader; note that wire trace may be sheathed by a plastic or nylon coating (Table 16).	-	-	-
<b>Branch line length</b>	Record the length of the branchline for each of the four sections where	-	-	-

	section 1 is that closest to the main-line and section 4 is the leader.			
<b>Branch line diameter</b>	Record the length of the branchline for each of the four sections where section 1 is that closest to the main-line and section 4 is the leader.	-	-	-
<b>Branch line storage</b>	Record if the branch lines are coiled up and packed into baskets (BSK), or layered out in tubs (TBS), or coiled up onto reels (RLS).	-	-	-

#### MITIGATION DEVICES

<b>DMDs used</b>	Record depredation mitigation device/s DMDs used by the vessel (if any) (Table 37).	-	-	-
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#### TORI LINE DETAILS

If the vessel was equipped with a tori line provide tori line details below. If no tori line was present on-board fill in NA for not applicable.

<b>Tori line length</b>	Record the total length of the tori line (not including streamers).	-	-	-
<b>Streamer type</b>	Indicate the type of streamers which are used with the tori line (e.g. paired or single)	-	-	-
<b>Streamer line length</b>	Record length of individual streamer lines (minimum and maximum where lengths vary). Record only one length if they do not vary.	-	-	-
<b>No. streamers</b>	Record the number of streamers that	-	-	-

<b>ers per line</b>	are attached to a single tori line			
<b>Distance between streamers</b>	Record the distance between streamers.	-	-	-
<b>Attached height</b>	Record the height that the tori line is attached above the water level.	-	-	-
<b>Streamers reach surface</b>	Indicate Yes if the streamers are long enough to touch the surface of the water in calm conditions and No if they are not.	-	-	-
<b>Towed objects</b>	Record the total number and type of towed objects used to maintain tori line tension and achieve aerial extent when deployed.	-	-	-
<b>Diagram</b>	Sketch/complete a diagram containing Tori line key features (e.g. Fig. 1 of IOTC Resolution 12/06).	-	-	-

Fishing event

<b>Set number</b>	Record set number. This should be a four digit numerical code beginning 0001. Set numbers should be consecutive from the start of the first line set to the last line set of the observed trip. A unique number is to be allocated to each individual set.	-	-	-
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SETTING OPERATIONS

<b>Start setting date</b>	Record the date and the time the first dhan buoy and / or radio buoy is de	-	-	-
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<b>Start setting position</b>	Record the position in latitude and longitude for the start of the setting operation	-	-	-
<b>End setting date and time</b>	Record the date and the time that the last dhan buoy and / or radio buoy is deployed. Longline vessels often set lines at the night and the setting operation may continue beyond midnight and into the following day.	-	-	-
<b>End Setting Position</b>	Record the position in latitude and longitude for the end of the setting operation	-	-	-
<b>Vessel speed</b>	Record the vessel's average speed during setting (knots).	-	-	-
<b>Line setter speed</b>	Record the speed setting of the line setter (metres/second).	-	-	-
<b>Length of mainline set</b>	Record mainline total set length (i.e. the total deployed length of the mainline for the specific set). Usually calculated by multiplying the total time to set the line and the average line setter speed, taking into account any interruption times. This information can be obtained from the Fishing Master and cross checked against observer calculations.	-	-	-

<b>Branch clip on time</b>	Record the average time interval in seconds between the "beeps" that indicate to the crew to clip on a branch line.	-	-	-
<b>Buoy clip on time</b>	Record the average time interval in seconds between the "beeps" that indicate to the crew to clip on a buoy.	-	-	-
<b>Total number of hooks set</b>	Record the total number of hooks deployed for the set. Usually calculated by multiplying number of baskets by the average number of hooks between the baskets. This information can be obtained from the Fishing Master and cross checked against observer calculations.	-	-	-
<b>Total number of floats set</b>	Record the total number of floats deployed during the set (this should not include the radio/dhan buoys). Usually calculated by subtracting the number of buoys in their holders before setting by the number of buoys in their holders after setting. This information can be obtained from the Fishing Master and cross checked against observer calculations.	-	-	-
<b>N° of hooks set</b>	Record the number of hooks set between floats. This will correspond to	-	-	-

<b>be-tween floats</b>	the number of hooks stored in each basket/tub, or on a reel and will be equivalent to the number of branch lines set.			
<b>Distance between branch lines</b>	Record the distance between branch lines (i.e. the interval at which they were set along the mainline) in metres. Usually calculated by multiplying 'Branch line clip on time (s)' by the 'line setter speed' (m/s).	-	-	-
<b>Float line length (1, 2 and 3)</b>	Record the different lengths of the float-lines used (1, 2 and 3).	-	-	-
<b>Total radio/d buoys set</b>	Record the total number of radio and /or dhan buoys deployed.	-	-	-
<b>Attached lights</b>	Record number of lights attached to the branchlines per type (Table 22) and colour (Table 23).	-	-	-
<b>Shark lines set</b>	Indicate Y or No if shark lines were set during the operation.	-	-	-
<b>N° of shark lines set</b>	Record the number of shark lines set during the operation. If no shark lines are set then record zero (0).	-	-	-
<b>Target species</b>	Record the target species for the set (FAO spp. 3-alpha code), (Table 1,	-	-	-

	Table 2, Table 3 and Table 4).			
<b>VMS on</b>	Indicate Y or No to sign if the VMS was on or not while setting and hauling.	-	-	-

Mitigation measures

<b>Number of Tori lines deployed</b>	The total number of tori lines deployed during the setting operation. Record zero if none were deployed.	-	-	-
<b>Low light night setting</b>	Indicate Y or No for whether minimum deck lighting is used during night setting (as defined in Table 1. Mitigation measures of IOTC Res 12/06).	-	-	-
<b>Branch line weighted</b>	Indicate Yes or No if the branch line is weighted.	-	-	-
<b>Sinker average weight</b>	Record the average weight of weights or sinkers attached to the branchlines (weights deployed on the snood prior to setting).	-	-	-
<b>% branchlines weighted</b>	Record the proportion of branchlines weighted (%). If all weighted, record 100%.	-	-	-
<b>Hook distance</b>	The distance of the weights/sinkers from the eye of the hook.	-	-	-
<b>Under-water</b>	Indicate Yes or No if the bait is protected on the branchlines until they are a	-	-	-

<b>set-ting</b>	certain depth below the surface.			
<b>Other mitigation measures used</b>	Record any other mitigation measures observed (Table 37).	-	-	-
<b>N° of branchlines set by type</b>	Record the number of branchlines set by type (branchline configuration number_. Branchline types must be in accordance to types previously defined under the "Gear specifications" section.	-	-	-
<b>Hook type</b>	Record the type of hooks used (Table 17).	-	-	-
<b>% hooks set by type</b>	Record the percentage (%) of hooks set by type.	-	-	-
<b>Variations in hook type</b>	Where possible indicate any variations in hook type, hook material and presence/absence of hook ring (Table 17).	-	-	-
<b>Bait type</b>	Record bait type/condition used (Table 25).	-	-	-
<b>Bait species</b>	Record the species of bait used (FAO spp. 3-alpha code) (Table 8).	-	-	-
<b>Bait ratio (%)</b>	Record the approximate proportion of bait species and condition used across all hooks in the set (%).	-	-	-



<b>Bait dye colour</b>	Record the colour or colours that the different baits are dyed (e.g. blue to avoid bird bycatch). If none, write NONE.	-	-	-

#### HAULING OPERATIONS

<b>Start hauling date and time</b>	Record the date and the time when the first dhan buoy and / or radio buoy is hauled back on-board to start hauling the line.	-	-	-
<b>Start hauling position</b>	Record the position in latitude and longitude for the start of the hauling operation.	-	-	-
<b>End hauling date and time</b>	Record the date and the time when the when the last component of the longline gear (dhan buoy and / or radio buoy) is hauled back on-board.	-	-	-
<b>End hauling position</b>	Record the position in latitude and longitude for the end of the hauling operation.	-	-	-
<b>Offal management</b>	Record fate given to the offal (fish heads, guts, etc.) and bait produced during the observed set. Indicate if these are retained for batch disposal (BD) at a later stage and/or disposed of ad hoc (AH) as they accumulate.	-	-	-

<b>Position of offal disposal</b>	Record the position where offal and used bait was disposed. Indicate if these are disposed at port side (BB), starboard (SB) or aft (AF).	-	-	-
<b>Method to stun fish</b>	Record the method/s used to stun fish during hauling (Table 24).	-	-	-
<b>Bird scaring device at haul</b>	Indicate Yes if a bird scaring device was deployed during hauling operations and No if not.	-	-	-
<b>Number of bite-offs (by branch line type)</b>	Record for each type of branchline set up previously identified how many have had the hook bitten off.- This only includes bite-offs observed while the observer was in a position to observe and record the hooks coming directly out of the water.	-	-	-
<b>Number of retrieved hooks observed</b>	Record the number of hooks observed.	-	-	-
<b>Sampling protocol</b>	Indicate sampling protocol followed by the observer (Table 38).	-	-	-

CATCH DETAILS

<b>Set number</b>	Unique within a specific trip	-	-	-
<b>Catch detail number</b>	Unique within a specific trip	-	-	-
<b>Specimen</b>	Record the species code for each specimen observed using FAO three figure alpha codes (Table 1, Table 2, Table 3, Table 4, Table 5, Table 6 and Table 7). If species FAO code is not available, record the species scientific name.	-	-	-
<b>Fate</b>	Specify the fate which includes whether it was retained or discarded and the reason, e.g. "Discarded – too small" (Table 41).	-	-	-

SPECIMEN INFORMATION

<b>Set number</b>	Unique within a specific trip	-	-	-
<b>Catch detail number</b>	Unique within a specific trip	-	-	-
<b>Specimen number</b>	Unique within a specific trip	-	-	-

Depredation details

		-	-	-
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<b>Depredation source</b>	For depredated specimens, record the depredation source based on depredation scar characteristics (Table 44). For non-depredated specimens record NA.			
<b>Predator Observation</b>	For depredated specimens, record the predator species directly observed and identified (FAO spp. 3-alpha code). If the predator was not observed record UNK (unknown). For non-depredated specimens record NA.	-	-	-

Additional catch details on SSIs

<b>Gear interaction</b>	For SSI only, specify the type of interaction of the specimen with the fishing gear (Table 47).	-	-	-
<b>Hook type</b>	For SSI only, record the type of hook the individual was hauled on (Table 17) [Consistent with IOTC Res 12-04]	-	-	-
<b>Bait type</b>	For SSI only, record the type/condition of bait the individual was hauled on (Table 25). [Consistent with IOTC Res 12-04]	-	-	-
<b>Leader material</b>	For SSI only, record the leader material the individual was hauled on (Table 16). [Consistent with IOTC Res 12-04 and IOTC Res. 17/05]	-	-	-
	For SSI only, record the thickness of the	-	-	-

<b>Lead thickness</b>	leader the individual was hauled on. Note: precise units (preferably millimetres (mm)). [Consistent with IOTC Res 12-04 and IOTC Res. 17/05]			
<b>De-hooker/line cutter</b>	Specify de-hooking or line cutting device used to extract the hook (Table 49). [Consistent with IOTC Res 12-04]	-	-	-
<b>Brought on board</b>	Indicate Yes or No, if the specimen was brought on board. [Consistent with IOTC Resolutions 13/04; 13/05; 12/04; 12/06; 12/09]	-	-	-
<b>Hauling method</b>	Detail how the specimen was brought on-board (Table 48). [Consistent with IOTC Res 12-04]	-	-	-
<b>Resuscitation (for turtles only)</b>	For turtles indicate Yes if the release took place with resuscitation and No if not.	-	-	-
<b>Photo ID</b>	If a photo is taken, record photo number/code so that it can be linked back to the specimen for onshore examination.	-	-	-

BIOMETRIC INFORMATION - Details concerning any extra biometric measurements, sex, maturity and the collection of biological samples.

<b>Sampling methods for the</b>	Indicate the sampling method used for the collection of biological sub-sample (	-	-	-
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col- lec- tion of bio- logi- cal in- for- ma- tion				
<b>Leng code 1</b>	Specify the length code used for the measurement (Table 52).	-	-	-
<b>Leng 1</b>	Record the length corresponding to the length type taken rounded to the lower centimetre.	-	-	-
<b>Leng code 2</b>	When an additional length measurement is taken, the corresponding length code should be recorded (Table 52).	-	-	-
<b>Leng 2</b>	When an additional length measurement is taken, the corresponding length should be recorded rounded to the lower centimetre.	-	-	-
<b>Weig code</b>	Record the code corresponding to the type of processing the specimen underwent prior to weighing (Table 43).	-	-	-
<b>Weig</b>	Record the specimen's weight (in kilograms) corresponding to the specified product type recorded in 'weight code'. If the fish has not been processed, record the unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-

<b>Weight estimation method</b>	Specify the weight estimation method used to obtain the weight (Table 42)	-	-	-
<b>Sex</b>	Record the sex of the sampled fish specimen (Table 50). If unknown record UNK.	-	-	-
<b>Maturity stage</b>	Record the stage of maturity of the sampled fish specimen according to standard maturity scales approved by the IOTC. If unknown record UNK.	-	-	-
<b>Sample collected</b>	Record the following details on the collection of samples: a) type (e.g. otoliths, spine clippings, and genetic samples) b) preservation method (e.g. alcohol, frozen, etc.) c) destination (i.e. location to be sent/stored)	-	-	-

TAG DETAILS

<b>Tag re-release</b>	Indicate Yes or No, whether this individual was re-released with a tag attached.	-	-	-
<b>Tag recovery</b>	Indicate Yes or No, whether a tag was recovered from this individual.	-	-	-
<b>Tag number</b>	Provide the tag number. If a turtle, provide both tag numbers (right and left flipper).	-	-	-

**Tag type** Record the type of tag used (Table 51).

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<b>Tag finder</b>	Record the name and contact details of the person who recovered the tag.	-	-	-

**If other Data Collection Method (DCM) or N/A is selected in the table above, specify and describe in the comments free text box below (CQ):**

-

**Comments/remarks about your submission and the implementation of this requirement ? If none, write NONE.**

NONE



# GILLNET INFORMATION

## GILLNET INFORMATION



Note - For Reporting requirement level column

- 1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**
- 2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**
- 3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "[IOTC Regional Observer Scheme \(ROS\) Data Collection Fields](#)".**

Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description data collection method
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### Gear specifications

#### SPECIAL EQUIPMENT OR MACHINERY

<b>Net drum</b>	Indicate Yes if on board No if not sighted. Vessels are normally equipped with a hydraulic net hauler; However they can also use net drums to both haul and store the net.	-	-	-
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#### GILLNET ATTRIBUTES

<b>Gill-net sequential number</b>	Specify gillnet sequential number.	-	-	-
<b>Total number of panels</b>	Record the number of panels making up the net.	-	-	-

<b>Panels stacked</b>	Indicate Yes or No if there are any panels stacked.	-	-	-
<b>Net length</b>	Record the net string length. Usually calculated by multiplying the panel average length by the number of panels used in the net.	-	-	-
<b>Net depth</b>	Record the vertical height of the net (depth). Usually obtained by measuring the length of the end-line, or up and down line, on the end of a net where the meshes are attached. This information may be used to cross check information provided by the crew.	-	-	-
<b>Net material</b>	Record the material of the net webbing (Table 18).	-	-	-
<b>Stretch mesh size(s)</b>	Record the mesh average stretched lengths (knot to knot) and range. Usually calculated by measuring at least 10 meshes from 5 panels in different areas of the net.	-	-	-
<b>Mesh count vertical</b>	Record the number of vertical meshes of a net in this gear. Usually obtained by counting the number of meshes of the end-line, or up and down line, on the end of a net where the meshes are attached. This information may be used to cross check	-	-	-

	information provided by the crew.			
<b>Hang ing ra- tio (%)</b>	Record the ratio between the length of the float line and the length of the stretched mesh hanging on the float line. Usually obtained by the following process: 1) counting 10 or 12 meshes horizontally, 2) multiplying the number of counted meshes by average stretched mesh length; 3) measuring the length of the floatline they are attached to, 3) dividing the length of the floatline the meshes are attached to by the length of the stretched meshes counted (see e.g. below).	-	-	-
<b>Net web colou</b>	The colour(s) of the net webbing (Table 19).	-	-	-
<b>Float type</b>	Record the type of buoyancy aid that is attached to the head-rope (Table 20).	-	-	-
<b>Float num- ber</b>	Record an approximate total number of floats used on this gillnet. This number must include the number of floats across a space that may occur at the bridle at the end of a net. This information may be obtained from the crew.	-	-	-
<b>Dis- tance be- tween floats</b>	Record the average distance (measured along the head-rope) between	-	-	-

	the floats used on this gillnet.			
<b>Droplines used</b>	Indicate Yes if droplines are used in this gillnet and No if not.	-	-	-
<b>Dropline length</b>	If droplines are used in this gillnet, record the length of the droplines. Usually obtained by measuring the distance from the floats (at the water's surface) to the float-line. This information may be used to cross check information provided by the crew.	-	-	-
<b>Sinker type</b>	Record the sinker type (defined accordingly to the material they are made of) attached to the footrope (Table 21).	-	-	-
<b>Sinker Number</b>	Record an approximate total number of sinkers attached to footrope. If more than one type of sinker is used, record approximate total number of sinkers/weights per sinker type. This information may be obtained from the crew.	-	-	-
<b>Sinker average weight</b>	Record sinker average weight. If more than one type of sinker is used, record sinker average weight per sinker type.	-	-	-

Fishing event

<b>Set number</b>	Record set number. This should be a four digit numer-	-	-	-
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	cal code beginning 0001. Set numbers should be consecutive from the start of the first line set to the last line set of the observed trip. A unique number is to be allocated to each individual set.			
<b>Gillnet sequential number</b>	Specify gillnet used on this set by recording its sequential number.	-	-	-

SETTING OPERATIONS

<b>Start setting date and time</b>	Record the date and the time that first panel enters the water (i.e. start of the setting of the net).	-	-	-
<b>Start setting position</b>	Record the position in latitude and longitude for the start of the setting operation.	-	-	-
<b>End setting date and time</b>	Record the date and the time the gillnet is secured to the vessel, to an anchoring device, or completely deployed (i.e. end of net setting). Gillnet vessels often set dusk and the setting operation may continue beyond midnight and into the following day.	-	-	-
<b>End setting position</b>	Record the position in latitude and longitude for the end of the setting operation	-	-	-
	Record the vessel's average speed in	-	-	-

<b>Vessel speed</b>	knots during setting.			
<b>Vertical set</b>	Indicate the level the gillnet is set at vertically in the water column, i.e., if the net is set at the surface or sub-surface (Table 27).	-	-	-
<b>Setting strategy</b>	Indicate how the gillnet was set (Table 29). Net setting strategy	-	-	-
<b>Setting shape</b>	Indicate the spatial configuration in which the gillnet was set (Table 28).	-	-	-

Mitigation measures

<b>Mitigation measures</b>	Indicate Yes or No if any bycatch mitigation devices were used during the set.	-	-	-
<b>Mitigation devices</b>	Record any mitigation device(s) used during the set (Table 37).	-	-	-

HAULING OPERATIONS

<b>Start hauling date and time</b>	Record the date and time at the start of net hauling. This is the time when the hauling equipment is put into gear or when the net starts being hauled. Vessels often haul nets in the early morning after a night soak period.	-	-	-
<b>Start hauling position</b>	Record the position in latitude and longitude for the start of the hauling operation.	-	-	-

<b>tion-</b>				
<b>End hauling date and time</b>	Record the date and time at the end of net hauling. This is the time when the gillnet is completely retrieved and on-board the vessel.	-	-	-
<b>End hauling position</b>	Record the position in latitude and longitude for the end of the hauling operation.	-	-	-
<b>Net condition</b>	Indicate the condition of the net at haul-back, even if the condition was the same at setting (Table 26).	-	-	-
<b>Number of net panels retrieved</b>	Record the total number of net panels retrieved at haul	-	-	-
<b>Number of net panels observed</b>	Record the total number of hauled net panels that are observed.	-	-	-
<b>Sampling protocol</b>	Indicate sampling protocol followed by the observer to select which net panels to observe (Table 38).	-	-	-

CATCH DETAILS

<b>Set number</b>	Unique within a specific trip	-	-	-
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**Catch detail** Unique within a specific trip

- - -

<b>Speci</b>	Record the species code for each specimen observed using FAO three figure alpha codes (Table 1, Table 2, Table 3, Table 4, Table 5, Table 6 and Table 7). If species FAO code is not available, record the species scientific name.	-	-	-
<b>Fate</b>	Specify the fate which includes whether it was retained or discarded and the reason, e.g. "Discarded – too small" (Table 41).	-	-	-
<b>Sampling methods for obtaining total catch estimate per speci</b>	Indicate the sampling method used to obtain total catch estimates per species (Table 39).	-	-	-
<b>Number</b>	Record the number of individuals per species for each specified fate. If weight is recorded, insert NA here (for large fish, record number of individuals).	-	-	-
<b>Weig</b>	Record the weight corresponding to the specified species and fate category. If number of individuals is recorded, insert NA	-	-	-



	here (for small fish, record weight).			
<b>Weight estimation method</b>	Indicate the weight estimation method used to collect weight (Table 42).	-	-	-
<b>Weight code</b>	Record the type of processing the species underwent prior to weighing (Table 43). If the species has not been processed, record the code for unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-

#### Depredation details

<b>Depredation source</b>	For depredated specimens, indicate the depredation source based on depredation scar characteristics (Table 44). For non-depredated specimens record NA.	-	-	-
<b>Predator Observation</b>	For depredated specimens, record the predator species directly observed and identified (FAO spp. 3-alpha code). If the predator was not observed record UNK (unknown). For non-depredated specimens record NA.	-	-	-

#### SPECIMEN INFORMATION

<b>Set number</b>	Unique within a specific trip	-	-	-
<b>Catch detail</b>	Unique within a specific trip	-	-	-

<b>number</b>				
<b>Specimen number</b>	Unique within a specific catch detail	-	-	-

Additional details on non-target spp.

<b>Condition at capture</b>	State the condition of the specimen at capture (Table 45).	-	-	-
<b>Condition at release</b>	State the condition of the specimen at the time of release (Table 45).	-	-	-

Additional catch details on SSIs

<b>Gear interaction</b>	For SSI only, specify the type of interaction of the specimen with the fishing gear (Table 47).	-	-	-
<b>Brought on board</b>	Indicate Yes or No, if the specimen was brought on board. [Consistent with IOTC Resolutions 13/04; 13/05; 12/04; 12/06; 12/09]	-	-	-
<b>Hauling method</b>	Specify how the specimen was brought on-board (Table 48). [Consistent with IOTC Res 12-04]	-	-	-
<b>Resuscitation (for turtles)</b>	For turtles indicate Yes if the release took place with resuscitation and No if not.	-	-	-

<b>ties only)</b>				
<b>Photo ID</b>	If a photo is taken, record photo number/code so that it can be linked back to the specimen for onshore examination.	-	-	-

BIOMETRIC INFORMATION - Details concerning any extra biometric measurements, sex, maturity and the collection of biological samples.

<b>Sampling methods for the collection of biological information</b>	Indicate the sampling method used for the collection of biological sub-sample	-	-	-
<b>Length code 1</b>	Specify the length code used for the measurement (Table 52).	-	-	-
<b>Length 1</b>	Record the length corresponding to the length type taken rounded to the lower centimetre.	-	-	-
<b>Length code 2</b>	When an additional length measurement is taken, the corresponding length code should be recorded (Table 52).	-	-	-
<b>Length 2</b>	When an additional length measurement is taken, the corresponding length should be recorded round-	-	-	-

	ed to the lower centimetre.			
<b>Weight code</b>	Record the code corresponding to the type of processing the specimen underwent prior to weighing (Table 43).	-	-	-
<b>Weight</b>	Record the specimen's weight (in kilograms) corresponding to the specified product type recorded in 'weight code'. If the fish has not been processed, record the unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-
<b>Weight estimation method</b>	Specify the weight estimation method used to obtain the weight (Table 42)	-	-	-
<b>Sex</b>	Record the sex of the sampled fish specimen (Table 50). If unknown record UNK.	-	-	-
<b>Maturity stage</b>	Record the stage of maturity of the sampled fish specimen according to standard maturity scales approved by the IOTC. If unknown record UNK.	-	-	-
<b>Sample collected</b>	Record the following details on the collection of samples: a) type (e.g. otoliths, spine clippings, and genetic samples) b) preservation method (e.g. alcohol, frozen, etc.) c) destination (i.e. location to be sent/stored)	-	-	-

TAG DETAILS

<b>Tag re-lease</b>	Indicate Yes or No, whether this individual was re-released with a tag attached.	-	-	-
<b>Tag re-cov-ery</b>	Indicate Yes or No, whether a tag was recovered from this individual.	-	-	-
<b>Tag num-ber</b>	Provide the tag number. If a turtle, provide both tag numbers (right and left flipper).	-	-	-
<b>Tag type</b>	Record the type of tag used (Table 51).	-	-	-
<b>Tag find-er</b>	Record the name and contact details of the person who recovered the tag.	-	-	-

**If other Data Collection Method (DCM) or N/A is selected in the table above, specify and describe in the comments free text box below (CQ):**

-

**Comments/remarks about your submission and the implementation of this requirement ? If none, write NONE**

-

# PURSE-SEINE INFORMATION

## PURSE-SEINE INFORMATION



Note - For Reporting requirement level column

- 1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**
- 2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**
- 3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "[IOTC Regional Observer Scheme \(ROS\) Data Collection Fields](#)".**

Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description data collection method
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### Gear specifications

#### SPECIAL EQUIPMENT OR MACHINERY

<b>Power block</b>	Indicate Yes if on board No if not sighted.	-	-	-
<b>Purse winch</b>	Indicate Yes if on board No if not sighted.	-	-	-

#### GENERAL GEAR ATTRIBUTES

<b>Maximum length of the net</b>	Record the maximum length of the net according to the net specifications. This corresponds to the length of the topline.	-	-	-
<b>Maximum depth of the net</b>	Record the maximum fishing depth according to the net specifications.	-	-	-

<b>Bag stretched mesh size</b>	Record the mesh average stretched lengths (knot to knot) of the bag of the net. Usually calculated by measuring 3 stretched mesh lengths and calculating the average.	-	-	-
<b>Mid-r stretched mesh size</b>	Record the mesh average stretched lengths (knot to knot) of the mid-net. Usually calculated by measuring 3 stretched mesh lengths and calculating the average.	-	-	-
<b>Maximum Brail Capacity</b>	Record the maximum weight capacity of a full brail in metric tonnes (Mt).	-	-	-
<b>Skiff Power</b>	Record the skiff engine power. Note: specify units (HP, KW).	-	-	-

Fishing event

<b>Set number</b>	Record set number. This should be a four digit numerical code beginning 0001. Set numbers should be consecutive from the start of the first line set to the last line set of the observed trip. A unique number is to be allocated to each individual set.	-	-	-
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OPERATIONS

<b>Start setting date and time</b>	Record set number. This should be a four digit numerical code beginning 0001. Set numbers should be consecutive from the start of	-	-	-
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	the first line set to the last line set of the observed trip. A unique number is to be allocated to each individual set.			
<b>Start setting position</b>	Record the position in latitude and longitude for the start of the setting operation.	-	-	-
<b>Beaufort</b>	Record the force of the wind according to the Beaufort scale (Table 36).	-	-	-
<b>School sighting cue and school type</b>	Record the position in latitude and longitude for the end of the setting operation	-	-	-
<b>First detection method</b>	Record how the vessel first detects the tuna school, floating object or birds (Table 30). If more than one method is used record only what first made the vessel change course.	-	-	-
<b>School size</b>	Provide an estimation of the size of the tuna school being targeted (in tonnes). This information can be requested from the bridge officers.	-	-	-
<b>Time net purse</b>	Record the time (hh:mm) when the net is fully pursed. All rings are up.	-	-	-
<b>Time start brailing</b>	Record the time that brailing starts (hh:mm).	-	-	-



<b>Time end brailing</b>	Record the time that brailing ends (hh:mm).	-	-	-
<b>Time skiff on-board</b>	Record the time when the skiff comes on board and the set is over (hh:mm).	-	-	-
<b>Maximum closing net depth (m)</b>	Record the real, measured, closed net depth (m). To be recorded only if depth gauge is used. Use information from middle gauge if more than one gauge is present.	-	-	-

#### Object Details

For sets conducted on FADs (natural or artificial), the following detailed information should be collected where possible and reported to the IOTC Secretariat.

<b>Buoy ID</b>	For every activity involving artificial or a natural FADs equipped with a buoy report BUOY ID (i.e. Buoy marking or any information allowing identifying the owner). [Consistent with IOTC Res 18/08]	-	-	-
<b>Buoy equip with artificial lights</b>	Report if devices equipped with artificial lights are deployed and/or recovered. [Consistent with IOTC Res 16/07]	-	-	-
<b>Artificial FAD design</b>	Characterize artificial FAD design using codes provided to describe raft (floating part) and tail (underwater hanging structure) materials	-	-	-

#### Cetaceans and whale sharks sightings during setting

Details on cetaceans and whale sharks sightings during purse-seine setting are to be collected where possible and reported to the IOTC Secretariat. [Consistent with IOTC Res 13/04 and 13/05]

<b>Sighting</b>	Indicate YES if the sighting occurred before setting or NO	-	-	-
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<b>Speci</b>	The species code for the sighted specimen/s (FAO spp. 3-alpha code). If species FAO code is not available, the species scientific name.	-	-	-
<b>N° sighted</b>	The number of individuals sighted per species.	-	-	-
<b>Caug in-side the net</b>	Indicate YES or NO whether sighted specimen/s was/were caught inside the net once the purse line was closed.	-	-	-

**Support vessel details**  
Details on support vessel/s present/participating to the observed fishing set.

<b>Support vessel presence</b>	Record if a supply vessel is present during the observed set.	-	-	-
<b>Support vessel name</b>	Record the name of the support vessel present during the observed set.	-	-	-
<b>Support vessel participation</b>	Support vessel participation: Record if the Supply Vessel takes part in the setting operation (YES/NO). If YES, describe it (e.g. acting as floating objet, etc.).	-	-	-

**Details on the current**  
Details on sea current that might influence set performance.

<b>Current</b>	Record current direction using car-	-	-	-
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<b>di- rec- tion</b>	dinal points (E, W, SW, SSW, etc.). This information is to be requested from bridge officers.			
<b>Cur- rent speed</b>	Record current speed in knots. This information is to be requested from bridge officers.	-	-	-
<b>Cur- rent depth</b>	Record current depth in metres. This information is to be requested from bridge officers.	-	-	-

#### CATCH DETAILS

<b>Set num- ber</b>	Unique within a specific trip	-	-	-
<b>Catch de- tail num- ber</b>	Unique within a specific trip	-	-	-
<b>Speci</b>	Record the species code for each specimen observed using FAO three figure alpha codes (Table 1, Table 2, Table 3, Table 4, Table 5, Table 6 and Table 7). If species FAO code is not available, record the species scientific name.	-	-	-
<b>Fate</b>	Specify the fate which includes whether it was retained or discarded and the reason, e.g. "Discarded – too small" (Table 41).	-	-	-
<b>Sam- pling meth ods</b>	Indicate the sampling method used to obtain total	-	-	-

<b>for obtaining total catch estimate per species</b>	catch estimates per species (Table 39).			
<b>Number</b>	Record the number of individuals per species for each specified fate. If weight is recorded, insert NA here (for large fish, record number of individuals).	-	-	-
<b>Weight</b>	Record the weight corresponding to the specified species and fate category. If number of individuals is recorded, insert NA here (for small fish, record weight).	-	-	-
<b>Weight estimation method</b>	Indicate the weight estimation method used to collect weight (Table 42).	-	-	-
<b>Weight code</b>	Record the type of processing the species underwent prior to weighing (Table 43). If the species has not been processed, record the code for unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-

Additional details on non-target spp

Catch details on non-target species to be collected where possible and reported to the IOTC Secretariat as recommended by the Scientific Committee.

<b>Condition at capture</b>	State the condition of the specimens at capture (Table 45).	-	-	-
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<b>Condition at release</b>	State the condition of the specimens at the time of release (Table 45).	-	-	-

SPECIMEN INFORMATION

<b>Set number</b>	Unique within a specific trip	-	-	-
<b>Catch detail number</b>	Unique within a specific trip	-	-	-
<b>Specimen number</b>	Unique within a specific catch detail	-	-	-

Additional details on non-target spp.

<b>Condition at capture</b>	State the condition of the specimen at capture (Table 45).	-	-	-
<b>Condition at release</b>	State the condition of the specimen at the time of release (Table 45).	-	-	-

Additional catch details on SSIs

<b>Gear interaction</b>	For SSI only, specify the type of interaction of the specimen with the fishing gear (Table 47).	-	-	-
		-	-	-

<b>Brought on board</b>	Indicate Yes or No, if the specimen was brought on board. [Consistent with IOTC Resolutions 13/04; 13/05; 12/04; 12/06; 12/09]			
<b>Hauling method</b>	Specify how the specimen was brought on-board (Table 48). [Consistent with IOTC Res 12-04]	-	-	-
<b>Resuscitation (for turtles only)</b>	For turtles indicate Yes if the release took place with resuscitation and No if not.	-	-	-
<b>Photo ID</b>	If a photo is taken, record photo number/code so that it can be linked back to the specimen for onshore examination.	-	-	-

BIOMETRIC INFORMATION - Details concerning any extra biometric measurements, sex, maturity and the collection of biological samples.

<b>Sampling methods for the collection of biological information</b>	Indicate the sampling method used for the collection of biological sub-sample	-	-	-
<b>Length code 1</b>	Specify the length code used for the measurement (Table 52).	-	-	-

<b>Length 1</b>	Record the length corresponding to the length type taken rounded to the lower centimetre.	-	-	-
<b>Length code 2</b>	When an additional length measurement is taken, the corresponding length code should be recorded (Table 52).	-	-	-
<b>Length 2</b>	When an additional length measurement is taken, the corresponding length should be recorded rounded to the lower centimetre.	-	-	-
<b>Weight code</b>	Record the code corresponding to the type of processing the specimen underwent prior to weighing (Table 43).	-	-	-
<b>Weight</b>	Record the specimen's weight (in kilograms) corresponding to the specified product type recorded in 'weight code'. If the fish has not been processed, record the unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-
<b>Weight estimation method</b>	Specify the weight estimation method used to obtain the weight (Table 42)	-	-	-
<b>Sex</b>	Record the sex of the sampled fish specimen (Table 50). If unknown record UNK.	-	-	-
<b>Maturity</b>	Record the stage of maturity of the sampled fish spec-	-	-	-

<b>ty stage</b>	imen according to standard maturity scales approved by the IOTC. If unknown record UNK.			
<b>Sample collected</b>	Record the following details on the collection of samples: a) type (e.g. otoliths, spine clippings, and genetic samples) b) preservation method (e.g. alcohol, frozen, etc.) c) destination (i.e. location to be sent/stored)	-	-	-

TAG DETAILS

<b>Tag re-release</b>	Indicate Yes or No, whether this individual was re-released with a tag attached.	-	-	-
<b>Tag recovery</b>	Indicate Yes or No, whether a tag was recovered from this individual.	-	-	-
<b>Tag number</b>	Provide the tag number. If a turtle, provide both tag numbers (right and left flipper).	-	-	-
<b>Tag type</b>	Record the type of tag used (Table 51).	-	-	-
<b>Tag finder</b>	Record the name and contact details of the person who recovered the tag.	-	-	-

Purse-seine vessel daily activity information

<b>Date</b>	Record the date. Note: specify units (preferably YYYY/MM/DD).	-	-	-
<b>Time</b>	Record time at the start of every fishing	-	-	-



	activity and every two hours from sunrise to sunset. Note: specify units (preferably hh:mm).			
<b>Position</b>	Record vessel position at the start of every fishing activity and every two hours from sunrise to sunset.	-	-	-
<b>Activity</b>	Record vessel activity at the start of every fishing activity and every two hours from sunrise to sunset (Table 33).	-	-	-
<b>Comment</b>	Record short commentaries on exceptional events that could not be described by the previous data fields.	-	-	-

**If other Data Collection Method (DCM) or N/A is selected in the table above, specify and describe in the comments free text box below (CQ):**

-

**Any comments/remarks about your submission and the implementation of this requirement for PS gear ? If none, write NONE**

-

# POLE AND LINE

## POLE AND LINE INFORMATION



Note - For Reporting requirement level column

- 1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**
- 2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**
- 3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "[IOTC Regional Observer Scheme \(ROS\) Data Collection Fields](#)".**

Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description data collection method
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### Gear specifications

### SPECIAL EQUIPMENT OR MACHINERY

<b>Live bait tanks capacity</b>	Record the total volume of the tanks used to keep the live bait, in cubic metres (m3).	-	-	-
<b>Number of automatic poles</b>	Record the total number of automatic poles that are fixed on a vessel.	-	-	-

### GENERAL GEAR ATTRIBUTES

<b>Number of anglers</b>	Record the maximum number of anglers observed during the trip.	-	-	-
<b>Pole material</b>	Specify the material the pole is made of: bamboo, fibre glass or carbon.	-	-	-

	If made of another material, describe it.			
<b>Hook type</b>	Indicate the type of hooks used for the observed trip (Table 17).	-	-	-
<b>Type of lures used</b>	Record Yes if the vessel uses lures or jiggers during the observed trip and No if it doesn't. If Yes, record lures or jiggers type, make (brand) and hook type (Table 17).	-	-	-

Fishing event - Tuna fishing event

<b>Event number</b>	Record set number. This should be a four digit numerical code beginning 0001. Set numbers should be consecutive from the start of the first line set to the last line set of the observed trip. A unique number is to be allocated to each individual set.	-	-	-
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TUNA FISHING OPERATIONS

<b>Event date and time</b>	Record the date and time that the first line enters the water. Note: specify units (preferably hh:mm and YYYY/MM/DD).	-	-	-
<b>Event Start position</b>	Record the position in latitude and longitude at the start of the fishing event.	-	-	-
<b>Beaufort</b>	Record the force of the wind according to the Beaufort scale (Table 36).	-	-	-

<b>School sighting cue and school type</b>	Record up to the first three cues which leads the vessel to detect the presence of a tuna school and the type of school detected (Table 30).	-	-	-
<b>Target Species</b>	Record the species in the school being targeted using FAO three figure alpha codes (Table 1).	-	-	-
<b>Maximum lines fishing at the same time</b>	Record maximum number of lines fishing at the same time. These should include lines deployed from manual and automatic poles. Specify if other lines are deployed and include them in the total count.	-	-	-
<b>Bait used</b>	Indicate Yes or No regarding whether any bait was used during the fishing event	-	-	-
<b>Bait type</b>	Specify the bait type/condition used during the fishing event (Table 25).	-	-	-
<b>Bait species</b>	Record the species of bait used during the fishing event using FAO three figure alpha codes (Table 8).	-	-	-
<b>Number of hooks lost</b>	Record the total number of hooks lost during the poling operation.	-	-	-
<b>Weight of bait used</b>	Record the estimated quantity of bait used in the poling operation (in kg). If no bait was used record zero (0).	-	-	-

<b>Object ID</b>	For every activity involving artificial FAD (DFAD/AFAD) report FAD identifier (i.e. FAD marking or beacon ID or any information allowing identifying the owner).	-	-	-
<b>Buoy equipment with artificial lights</b>	For every activity involving FADs (natural and/or artificial) report if device is equipped with artificial lights.	-	-	-
<b>Sampling protocol</b>	Indicate sampling protocol followed by the observer to select which lines to observe (Table 38).	-	-	-

CATCH DETAILS

<b>Event number</b>	Unique within a specific trip	-	-	-
<b>Catch detail number</b>	Unique within a specific trip	-	-	-
<b>Species</b>	Record the species code for each specimen observed using FAO three figure alpha codes (Table 1, Table 2, Table 3, Table 4, Table 5, Table 6 and Table 7). If species FAO code is not available, record the species scientific name.	-	-	-
<b>Fate</b>	Specify the fate which includes whether it was re-	-	-	-

	tained or discarded and the reason, e.g. "Discarded – too small" (Table 41).			
<b>Sampling methods for obtaining total catch estimate per species</b>	Indicate the sampling method used to obtain total catch estimates per species (Table 39).	-	-	-
<b>Number</b>	Record the number of individuals per species for each specified fate. If weight is recorded, insert NA here (for large fish, record number of individuals).	-	-	-
<b>Weight</b>	Record the weight corresponding to the specified species and fate category. If number of individuals is recorded, insert NA here (for small fish, record weight).	-	-	-
<b>Weight estimation method</b>	Indicate the weight estimation method used to collect weight (Table 42).	-	-	-
<b>Weight code</b>	Record the type of processing the species underwent prior to weighing (Table 43). If the species has not been processed, record the code for unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-

Depredation details

<b>Depredation source</b>	For depredated specimens, indicate the depredation source based on depredation scar characteristics (Table 44). For non-depredated specimens record NA.	-	-	-
<b>Predator Observer</b>	For depredated specimens, record the predator species directly observed and identified (FAO spp. 3-alpha code). If the predator was not observed record UNK (unknown). For non-depredated specimens record NA.	-	-	-

SPECIMEN INFORMATION

Additional details on non-target spp

Catch details on non-target species to be collected where possible and reported to the IOTC Secretariat as recommended by the Scientific Committee.

<b>Condition at capture</b>	State the condition of the specimens at capture (Table 45).	-	-	-
<b>Condition at release</b>	State the condition of the specimens at the time of release (Table 45).	-	-	-

Additional catch details on SSIs

<b>Gear interaction</b>	For SSI only, specify the type of interaction of the specimen with the fishing gear (Table 47).	-	-	-
	Indicate Yes or No, if the specimen	-	-	-

<b>Brought on board</b>	was brought on board. [Consistent with IOTC Resolutions 13/04; 13/05; 12/04; 12/06; 12/09]			
<b>Hauling method</b>	Specify how the specimen was brought on-board (Table 48). [Consistent with IOTC Res 12-04]	-	-	-
<b>Resuscitation (for turtles only)</b>	For turtles indicate Yes if the release took place with resuscitation and No if not.	-	-	-
<b>Photo ID</b>	If a photo is taken, record photo number/code so that it can be linked back to the specimen for onshore examination.	-	-	-

BIOMETRIC INFORMATION - Details concerning any extra biometric measurements, sex, maturity and the collection of biological samples.

<b>Sampling methods for the collection of biological information</b>	Indicate the sampling method used for the collection of biological sub-sample	-	-	-
<b>Length code 1</b>	Specify the length code used for the measurement (Table 52).	-	-	-
<b>Length 1</b>	Record the length corresponding to	-	-	-



	the length type taken rounded to the lower centimetre.			
<b>Length code 2</b>	When an additional length measurement is taken, the corresponding length code should be recorded (Table 52).	-	-	-
<b>Length 2</b>	When an additional length measurement is taken, the corresponding length should be recorded rounded to the lower centimetre.	-	-	-
<b>Weight code</b>	Record the code corresponding to the type of processing the specimen underwent prior to weighing (Table 43).	-	-	-
<b>Weight</b>	Record the specimen's weight (in kilograms) corresponding to the specified product type recorded in 'weight code'. If the fish has not been processed, record the unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-
<b>Weight estimation method</b>	Specify the weight estimation method used to obtain the weight (Table 42)	-	-	-
<b>Sex</b>	Record the sex of the sampled fish specimen (Table 50). If unknown record UNK.	-	-	-
<b>Maturity stage</b>	Record the stage of maturity of the sampled fish specimen according to standard maturity	-	-	-

	scales approved by the IOTC. If unknown record UNK.			
<b>Sample collected</b>	Record the following details on the collection of samples: a) type (e.g. otoliths, spine clippings, and genetic samples) b) preservation method (e.g. alcohol, frozen, etc.) c) destination (i.e. location to be sent/stored)	-	-	-

TAG DETAILS

<b>Tag re-release</b>	Indicate Yes or No, whether this individual was re-released with a tag attached.	-	-	-
<b>Tag recovery</b>	Indicate Yes or No, whether a tag was recovered from this individual.	-	-	-
<b>Tag number</b>	Provide the tag number. If a turtle, provide both tag numbers (right and left flipper).	-	-	-
<b>Tag type</b>	Record the type of tag used (Table 51).	-	-	-
<b>Tag finder</b>	Record the name and contact details of the person who recovered the tag.	-	-	-

**If other Data Collection Method (DCM) or N/A is selected in the table above, specify and describe in the comments free text box below (CQ):**

-

**Comments/remarks about your submission and the implementation of this requirement ? If none, write NONE**

NONE

## POLE AND LINE

Note - For Reporting requirement level column

- 1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**
- 2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**
- 3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "[IOTC Regional Observer Scheme \(ROS\) Data Collection Fields](#)".**

Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description data collection method
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### Fishing event - Bait fishing event

<b>Event number</b>	Record set number. This should be a four digit numerical code beginning 0001. Set numbers should be consecutive from the start of the first line set to the last line set of the observed trip. A unique number is to be allocated to each individual set.	-	-	-
<b>Event date and time</b>	Record the data and time when chumming for bait starts.	-	-	-
<b>Event Start position</b>	Record the position in latitude and longitude at the start of the fishing event.	-	-	-
<b>Event end date and time</b>	Record the data and time at the end of the bait fishing event, when the last bait is scooped from the net.	-	-	-
<b>Event depth</b>	Record the depth of the place where the net is being deployed.	-	-	-

**Distance from** Record the distance from the coast to which the bait fish-

-

-

-

<b>Beaufort</b>	Record the force of the wind according to the Beaufort scale (Table 36).	-	-	-
<b>School sighting cue and school type</b>	Record up to the first three cues which leads the vessel to detect the presence of a tuna school and the type of school detected (Table 30).	-	-	-
<b>Detection method</b>	Select the detection method/s used to detect bait fish school (Table 31).	-	-	-
<b>Fishing method</b>	Indicate the fishing method during the specific bait fishing event (Table 32).	-	-	-
<b>N° of fishers</b>	Number of fishers that participate to the bait fishing event.	-	-	-
<b>Object ID</b>	For every activity involving artificial FAD (DFAD/AFAD) report FAD identifier (i.e. FAD marking or beacon ID or any information allowing identifying the owner).	-	-	-
<b>Buoy equipment with artificial lights</b>	For every activity involving FADs (natural and/or artificial) report if device is equipped with artificial lights.	-	-	-
<b>Sampling protocol</b>	Indicate sampling protocol followed by the observer to select which lines to observe (Table 38).	-	-	-

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CATCH DETAILS

<b>Event number</b>	Unique within a specific trip	-	-	-
<b>Catch detail number</b>	Unique within a specific trip	-	-	-
<b>Species</b>	Record the species code for each specimen observed using FAO three figure alpha codes (Table 1, Table 2, Table 3, Table 4, Table 5, Table 6 and Table 7). If species FAO code is not available, record the species scientific name.	-	-	-
<b>Fate</b>	Specify the fate which includes whether it was retained or discarded and the reason, e.g. "Discarded – too small" (Table 41).	-	-	-
<b>Sampling methods for obtaining total catch estimate per species</b>	Indicate the sampling method used to obtain total catch estimates per species (Table 39).	-	-	-
<b>Number</b>	Record the number of individuals per species for each specified fate. If	-	-	-

	weight is recorded, insert NA here (for large fish, record number of individuals).			
<b>Weigh</b>	Record the weight corresponding to the specified species and fate category. If number of individuals is recorded, insert NA here (for small fish, record weight).	-	-	-
<b>Weigh estimation meth</b>	Indicate the weight estimation method used to collect weight (Table 42).	-	-	-

SPECIMEN INFORMATION

<b>Event number</b>	Unique within a specified trip	-	-	-
<b>Catch detail number</b>	Unique within a specified event	-	-	-
<b>Specimen number</b>	Unique within a specified catch detail	-	-	-

Additional details on non-target spp

Catch details on non-target species to be collected where possible and reported to the IOTC Secretariat as recommended by the Scientific Committee.

<b>Condition at capture</b>	State the condition of the specimens at capture (Table 45).	-	-	-
<b>Condition at</b>	State the condition of the specimens at the time of release (Table 45).	-	-	-

re- lease				
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Additional catch details on SSIs

<b>Gear interaction</b>	For SSI only, specify the type of interaction of the specimen with the fishing gear (Table 47).	-	-	-
<b>Brought on board</b>	Indicate Yes or No, if the specimen was brought on board. [Consistent with IOTC Resolutions 13/04; 13/05; 12/04; 12/06; 12/09]	-	-	-
<b>Hauling method</b>	Specify how the specimen was brought on-board (Table 48). [Consistent with IOTC Res 12-04]	-	-	-
<b>Resuscitation (for turtles only)</b>	For turtles indicate Yes if the release took place with resuscitation and No if not.	-	-	-
<b>Photo ID</b>	If a photo is taken, record photo number/code so that it can be linked back to the specimen for onshore examination.	-	-	-

BIOMETRIC INFORMATION - Details concerning any extra biometric measurements, sex, maturity and the collection of biological samples.

<b>Sampling methods for the collection of</b>	Indicate the sampling method used for the collection of biological sub-sample	-	-	-
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<b>biological information</b>				
<b>Length code 1</b>	Specify the length code used for the measurement (Table 52).	-	-	-
<b>Length 1</b>	Record the length corresponding to the length type taken rounded to the lower centimetre.	-	-	-
<b>Length code 2</b>	When an additional length measurement is taken, the corresponding length code should be recorded (Table 52).	-	-	-
<b>Length 2</b>	When an additional length measurement is taken, the corresponding length should be recorded rounded to the lower centimetre.	-	-	-
<b>Weight code</b>	Record the code corresponding to the type of processing the specimen underwent prior to weighing (Table 43).	-	-	-
<b>Weight</b>	Record the specimen's weight (in kilograms) corresponding to the specified product type recorded in 'weight code'. If the fish has not been processed, record the unprocessed (or round, whole, live) weight (i.e. RD).	-	-	-
<b>Weight estimation</b>	Specify the weight estimation method	-	-	-

<b>ma- tion meth</b>	used to obtain the weight (Table 42)			
<b>Sex</b>	Record the sex of the sampled fish specimen (Table 50). If unknown record UNK.	-	-	-
<b>Ma- turi- ty stage</b>	Record the stage of maturity of the sampled fish specimen according to standard maturity scales approved by the IOTC. If unknown record UNK.	-	-	-
<b>Sam- ple col- lect- ed</b>	Record the following details on the collection of samples: a) type (e.g. otoliths, spine clippings, and genetic samples) b) preservation method (e.g. alcohol, frozen, etc.) c) destination (i.e. location to be sent/stored)	-	-	-

#### TAG DETAILS

<b>Tag re- lease</b>	Indicate Yes or No, whether this individual was re-released with a tag attached.	-	-	-
<b>Tag re- cov- ery</b>	Indicate Yes or No, whether a tag was recovered from this individual.	-	-	-
<b>Tag num- ber</b>	Provide the tag number. If a turtle, provide both tag numbers (right and left flipper).	-	-	-
<b>Tag type</b>	Record the type of tag used (Table 51).	-	-	-
	Record the name and contact details	-	-	-

<b>Tag finder</b>	of the person who recovered the tag.			
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Pole and line vessel daily activity information

<b>Date</b>	Record the date. Note: specify units (preferably YYYY/MM/DD).	-	-	-
<b>Time</b>	Record the time every two hours (from sunrise to sunset) and at the start of every fishing activity.	-	-	-
<b>Position</b>	Record vessel position every two hours (from sunrise to sunset) and at the start of every fishing activity.	-	-	-
<b>Activity</b>	Record vessel activity every two hours (from sunrise to sunset) and at the start of every fishing activity (Table 33).	-	-	-
<b>Comment</b>	Record short commentaries on exceptional events that could not be described by the previous data fields.	-	-	-

**If other Data Collection Method (DCM) or N/A is selected in the table above, specify and describe in the comments free text box below (CQ):**

-

**Comments/remarks about your submission and the implementation of this requirement ? If none, write NONE**

NONE

## VESSEL TRANSHIPMENT INFORMATION

Information on all transhipments that take place during the trip should be collected. Most commonly this will entail transshipping processed catch to a carrier vessel or another fishing vessel. If fish or fish products are move to or from another vessel (carrier or fishing vessel), observers must record details of the transhipment. Transhipment may occur on a purse seine vessel that has pursued more fish than the vessel's capacity that a second vessel will load fish from the net; this need to be recorded on an event basis.

**Bear in mind that the collecting this information is not necessary if an observer is present on a carrier vessel monitoring the transhipment for the IOTC Regional Observer Programme (ROP)**

### VESSEL TRANSHIPMENT INFORMATION



Note - For Reporting requirement level column

1) Mandatory Reporting (MR). Data fields marked 'MR' are to be reported to the IOTC Secretariat. **The fields are tagged in GREEN.**

2) Optional Reporting (OR). Data fields marked 'OR' are to be reported to the IOTC Secretariat when they have been collected by the national programme. **The fields are tagged in ORANGE.**

3) Suggested Collection (—). Data fields marked '—' should ideally be collected by national programmes, based on best practice as agreed by the IOTC, but do not need to be reported to IOTC. **The fields are tagged in YELLOW.**

**The table below is designed from the document "[IOTC Regional Observer Scheme \(ROS\) Data Collection Fields](#)".**

Data field name	Data field description	Reporting requirement level	Data collection method Non-mandatory minimum data fields may be "NA"	Brief description data collection method
<b>Date</b>	Record the date the transhipment takes place.	-	-	-
<b>Start time</b>	Record the time the transhipment of fish starts.	-	-	-
<b>End time</b>	Record the time the transhipment of fish ends. Stores, bait or fuel may also be transhipped. The time and details of this must not be confused with the time that fish or fish products are being transhipped.	-	-	-
<b>Position</b>	Record the position of your vessel, during transhipment.	-	-	-
<b>Category</b>	Record if your vessel is transhipping to or from, (i.e. receive-	-	-	-

	ing fish from) another vessel (carrier/fishing vessel) or if loading or allowing to load fish from the net (this may occur if a purse seiner has pursued more fish than its present loading capacity).			
<b>Product transhipped</b>	Observers deployed on-board a purse-seine, pole and line or gillnet vessel are to record the quantity of fish products transhipped (per species) using FAO spp.3Alpha and IOTC "Product" categories (Table 43). Observers deployed on-board longline vessels are only to request to their vessel Captain a copy of the signed declaration form, which will have all the required information.	-	-	-
<b>Name of carrier/fishing vessel</b>	Observers deployed on-board a purse-seine, pole and line or gillnet vessel are to record the name and registration details of the carrier/fishing vessel they are transhipping to/from (i.e. name, national registration number, port of registry, flag and call sign). Observers deployed on-board longline vessels are only to request to their vessel Captain a copy of the signed declaration form, which will have all the required information.	-	-	-

**If other Data Collection Method (DCM) or N/A is selected in the table above, specify and describe in the comments free text box below (CQ):**

-

**Comments/remarks about your submission and the implementation of this requirement ? If none, write NONE**

-

# Information from the IOTC Secretariat

Download the following documents:

-

Remarks from the IOTC Secretariat

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# Capacity Building

## Manual and Guidelines:

[IOTC CMMs manual B - Implementation of IOTC CMMs - Entailing reporting obligations](#)

## Implementation Sheet:

Implementation sheet for Resolution 22/04 is work in progress.

## Implementation of the ROS:

IOTC Resolution 22/04 (supersedes Resolution 11/04) On a regional observer scheme, sets out the minimum recording requirements and timelines for implementation and reporting by CPCs.

Reporting requirements include:

- The observer shall, within 30 days of completion of each trip, provide a report to the CPCs of the vessel.
- The CPCs shall send within 150 days at the latest each report, and observer data, following the IOTC observer reporting templates and standards. The Executive Secretary shall make the information available to the IOTC Scientific Committee.
- Data shall be provided in the 1°x1° square and month format to the IOTC Executive Secretary ([IOTC-Secretariat@fao.org](mailto:IOTC-Secretariat@fao.org)), who shall make the report available to the Scientific Committee upon request. CPCs shall endeavor to send these data in an electronic format suitable for automated data extraction.
- In a case where the vessel is fishing in the EEZ of a coastal State, the report shall equally be submitted to that coastal State.

The following information has also been developed to support the scheme:

- [Proposal for minimum programme standards and guidelines for the IOTC Regional Observer Scheme](#) (PDF file)
- [Finalised minimum programme standards and guidelines for the IOTC Regional Observer Scheme](#) (PDF file)
- [IOTC Regional Observer Scheme \(ROS\) Data Collection Fields Minimum Standards](#) (PDF file)
- [Scientific field observer manual](#) (PDF file)
- [Scientific field observer training programme guide](#) (PDF file)
- Scientific field observer training materials (ZIP files - [Part 1](#), [Part 2](#), [Part 3](#) & [Part 4](#))
- Official IOTC ROS data **collection** forms and guidance:
- longline ([paper/excel](#) in ZIP files)
- purse seine ([paper/excel](#) in ZIP files)
- gillnet ([paper](#) in ZIP file/excel under development)
- pole and line ([paper](#) in ZIP file/excel under development)
- [Observer logistics coordinator manual](#) (PDF)
- [Observer logistics coordinator training materials](#) (ZIP file)
- [IOTC Species identification cards](#)

A training package to train observer logistics coordinators and scientific field observers was developed during the [IOTC ROS pilot project](#). The materials developed during this project can be found through the links above. It is strongly recommended that National Observer Programme administrators from IOTC CPCs contact the Secretariat for guidance on running any observer training programmes.



# Assessment Criteria

## [New Appendix V - The Compliance Committee – Terms of Reference and Rules of Procedure]

### Rules of Procedure

The [IOTC Rules of Procedure](#) (12 May 2023) include provisions addressing various operations of the Commission and its subsidiary bodies.

### [REVISED COMPLIANCE ASSESSMENT CRITERIA – APPENDIX V, IOTC RULES OF PROCEDURE \(2023\)](#)

The compliance status determination of a reporting requirement is, where applicable, grounded in the following main elements, as provided by the IOTC Rules of Procedure (2023), Annex V:

- Transposition of Commission decisions - Legislation or administrative orders
- Provision of information on system or procedures to monitor and ensure compliance of vessels and persons
- Reporting deadline, and
- Reporting format – IOTC standard

### Year reported on/Year assessed: 2024

- **Assessment of legislation (LEG): Not assessed**
- **Assessment of system and procedures (SPR): Not assessed**
- **Assessment of IOTC standard (STD): Assessed**

### Notes:

- Result of assessment: Causes mentioned below are not exhaustive and are only examples; other causes can apply depending of the context and information available.
- Observations mentioned below are not exhaustive and are only examples; other observations can apply depending of the context and information available.

### **IOTC Standard:**

The RoP Annex V requires that submissions contain all mandatory information or data required, in the agreed format.

The standard is defined by the Resolution 23/08 paragraph 3.b and 3.d. The standard in term of data/information/fields to be provided/completed is:

- **For the VMP** - [Covers each vessel in their IOTC fishery utilizing EMS, outlining the EMS setup on each vessel, consistent with the requirements in the EM Program Standard (Annex 1) and making use of guidance in Annex 3 (Vessel Management Plan Guide)];
- **For the fleet level ROS data collection** - the table specifying for each ROS minimum required data field specified: i) the data field name and description ii. The data field reporting requirement level (i.e, mandatory collection and reporting, mandatory reporting if collected, not mandatory etc) iii. the data collection method used to collect data for that field, iv. a brief description of the data collection method.

Assessment Result	CR Observation
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**Assessment score: Compliant - C**

<p><u>LEG</u>: N/A - Report CoC21 (94).  <u>STD</u>: The CPC is implementing the ROS at sea with embarked observers and/or EMS. The CPC has provided i) the Vessel Monitoring Plans supporting national observer programs (all vessels at sea - ROS sea), and ii) the fleet level ROS data collection table (Including a) The data field reporting requirement level, AND b) the data collection method used to collect data for that field, AND c) a brief description of the data collection method. No missing information.  <u>SP</u>: N/A - Report CoC21 (94).</p>	<ul style="list-style-type: none"> <li>• Received: [Date]</li> <li>• <u>LEG</u>: N/A.</li> <li>• <u>STD</u>: YES - CPC implementing ROS sea with embarked observers and/or EMS. The i) Vessel Monitoring Plans, and ii) fleet level ROS data collection table (Including a) data field reporting requirement level, AND b) data collection method, AND c) description of data collection method), provided in the agreed format. No missing information.</li> <li>• <u>SP</u>: N/A.</li> </ul>
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	<p>Corresponding to the below criteria in APPENDIX V – ANNEX A COMPLIANCE STATUS CATEGORIES :</p> <ul style="list-style-type: none"> <li>● Reporting or submission by the deadlines;</li> <li>● Submission of all mandatory information or data required, in the agreed format.</li> </ul>
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**Assessment score: Partially Compliant - P/C**

<p><u>LEG</u>: N/A - Report CoC21 (94).  <u>STD</u>: The CPC is implementing the ROS at sea with embarked observers and/or EMS. The CPC has NOT provided i) the Vessel Monitoring Plans supporting national observer programs (all vessels at sea - ROS sea), Missing some VMP AND/OR ii) the fleet level ROS data collection table is missing [a] some data field reporting requirement level, AND/OR b) some data collection method used to collect data, AND/OR c) some brief description of the data collection method; OR the CPC has provided the information/data BUT not in the agreed format.  <u>SP</u>: N/A - Report CoC21 (94).</p>	<ul style="list-style-type: none"> <li>● Received [DATE] - XX days after the deadline.</li> <li>● <u>LEG</u>: N/A.</li> <li>● <u>STD</u>: CPC implement ROS at sea with embarked observers and/or EMS. Missing some VMP AND/OR ii) the fleet level ROS data collection table is missing [a] some data field reporting requirement level, AND/OR b) some data collection method used to collect data, AND/OR c) some brief description of the data collection method; OR CPC has provided the information/data BUT not in the agreed format.</li> <li>● <u>SP</u>: N/A.</li> </ul> <p>Corresponding to the below criteria in APPENDIX V – ANNEX A COMPLIANCE STATUS CATEGORIES :</p> <ul style="list-style-type: none"> <li>● Information or data for the obligation has been submitted or reported, but in a way that is incomplete or incorrect;</li> <li>● CPC has failed to meet reporting or submission deadlines by less than 15 days.</li> </ul>
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**Assessment score: Not Compliant category 1 - N/C1**

<p><u>LEG</u>: N/A - Report CoC21 (94).  <u>STD</u>: The CPC is implementing the ROS at sea with embarked observers and/or EMS. The CPC has NOT provided i) the Vessel Monitoring Plans supporting national observer programs (all vessels at sea - ROS sea), AND ii) the fleet level ROS data collection table with [a] data field reporting requirement level, AND b) data collection method used to collect data, AND c) brief description of the data collection method.  <u>SP</u>: N/A - Report CoC21 (94).</p>	<ul style="list-style-type: none"> <li>● Received [DATE] - XX days after the deadline.</li> <li>● <u>LEG</u>: N/A</li> <li>● <u>STD</u>: NO - CPC implement ROS at sea with embarked observers and/or EMS. Mandatory information/data NOT provided i) the Vessel Monitoring Plans supporting national observer programs (all vessels at sea - ROS sea), AND ii) the fleet level ROS data collection table.</li> <li>● <u>SP</u>: N/A.</li> </ul> <p>Corresponding to the below criteria in APPENDIX V – ANNEX A COMPLIANCE STATUS CATEGORIES :</p>
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**Assessment score: Not Compliant category 2 - N/C2**

<p><u>LEG</u>: N/A.</p>	<ul style="list-style-type: none"> <li>● <u>LEG</u>: N/A</li> <li>● <u>STD</u>: NO - CPC implement ROS at sea with embarked observers and/or EMS. Mandatory information/data NOT provided i) the Vessel Monitoring Plans supporting national observer programs (all vessels at sea - ROS sea)</li> </ul>
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<p><u>STD</u>: The CPC is implementing the ROS at sea with embarked observers and/or EMS. The CPC has NOT provided i) the Vessel Monitoring Plans supporting national observer programs (all vessels at sea - ROS sea), AND ii) the fleet level ROS data collection table with [a) data field reporting requirement level, AND b) data collection method used to collect data, AND c) brief description of the data collection method, in two or more consecutive years.</p> <p><u>SPR</u>: N/A.</p>	<ul style="list-style-type: none"> <li>● <u>SP</u>: NO - NOT provided &amp; described, in two or more consecutive years.</li> </ul> <p><u>Corresponding to the below criteria in APPENDIX V – ANNEX A COMPLIANCE STATUS CATEGORIES</u>:</p> <ul style="list-style-type: none"> <li>● Failure to implement, monitor or ensure compliance with the same obligation for two or more consecutive years;</li> <li>● Failure to provide information showing that it has a system or procedures to implement this binding reporting obligation, in two or more consecutive years.</li> </ul>
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**Assessment score: Not Applicable - N/A**

<p>The measure does not apply to the CPC:  NO fishing vessels of 24 meters length overall and above in the Record of authorised vessels or active in 2024 AND/OR No fishing vessels under 24 meters operating outside the EEZ in the Record of authorised vessels or active in 2024 .  CPCs is NOT IMPLEMENTING National EM Programs (NEMPs) and EM systems on flagged vessels in 2024.  CPCs is NOT IMPLEMENTING the ROS at sea - Observer embarked on flagged vessels in 2024.</p>	<ul style="list-style-type: none"> <li>● NIL Report / Not Applicable - NO fishing vessels of 24 meters length overall and above in the Record of authorised vessels or active in 2024 AND/OR No fishing vessels under 24 meters operating outside the EEZ in the Record of authorised vessels or active in 2024 .</li> <li>● NIL Report / Not Applicable - CPCs is NOT IMPLEMENTING National EM Programs (NEMPs) and EM systems on flagged vessels in 2024 .</li> <li>● NIL Report / Not Applicable - CPCs is NOT IMPLEMENTING the ROS at sea - Observer embarked on flagged vessels in 2024.</li> </ul>
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Note: Your response to this requirement may be used to compile other reports as agreed by the Commission and its Committees.