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Indian Ocean Tuna Commission
Commission des Thons de l'Océan Indien

Information Recording: IOTC ROS Data Collection Forms

IOTC ROS TR18.4, 19.4, 20.4 and 21.4

Category: Onboard Data Collection and Recording

[IOTC ROS TR18, 19, 20 and 21]



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- National Observer Programmes can opt to use their own data collection forms or resort to forms developed by the IOTC in the context of its Regional Observer Scheme.
- *Data Collection, Verification, Input and Reporting Training Course* (TR 18 to 21), require observers to correctly record information in accordance with the protocols and formats provided using IOTC ROS data collection forms .
- This module aims to familiarize Observers with IOTC ROS data collection forms and associated materials and with general instructions on form filling.





IOTC ROS DATA COLLECTION FORMS

- FORM 1 (PS, LL, PL, GIL): Vessel and trip information
- FORM 2 (PS, LL, PL, GIL): Fishing gear
- FORM 3 (PS, LL, PL, GIL): Fishing event
- FORM 4 (PS, LL, PL, GIL): Fishing event - Catch details
- FORM 5 (PS, LL, PL, GIL): Fishing event - Biometric information
- FORM 6 (PS, LL, PL, GIL): Fishing event –Catch details – Biological sampling
- FORM 7 (PS, LL, PL, GIL): Vessel unloading / transhipment
- FORM 8 (PS, PL): Daily activity log (only to be filled for surface fisheries)





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1. Observers are required to record data collected onboard onto IOTC ROS standard data collection forms.
2. All IOTC ROS data collection forms have integrated explanatory notes.
3. All data fields are numbered
4. Each space on a data form that requires information is called a “Data Field”.
5. Each data field on the data forms needs to be completed to reflect accurately the information required for that field.
6. All minimum standard data fields are highlighted in light grey. These are to be collected and reported to the IOTC.



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FORM 1: VESSEL AND TRIP INFORMATION

This is a generic form that is designed to capture all the information related to a particular vessel, a particular observer and trip.

IOTC REGIONAL OBSERVER SCHEME VESSEL AND TRIP INFORMATION SHEET		FORM 1-PS (pg. 1)
Revised September 2020		
OBSERVER INFORMATION		
Observer identification 1. Observer IOTC registration number <input type="text"/>		Observer trip number <input type="text"/>
2. Observer full name <input type="text"/>		3. Observer nationality <input type="text"/>
Observer trip details collect all dates and times in Coordinated Universal Time (UTC)		
4. Location of embarkation (country and port or at-sea) COUNTRY <input type="text"/> PORT (name) <input type="text"/> AT SEA (v) <input type="checkbox"/> Position of embarkation (dd° mm' ss") specify quadrant (circle) LATITUDE <input type="text"/> S <input type="checkbox"/> N <input type="checkbox"/> LONGITUDE <input type="text"/> E <input type="checkbox"/> W <input type="checkbox"/>		6. Location of disembarkation (country and port or at-sea) COUNTRY <input type="text"/> PORT (name) <input type="text"/> AT SEA (v) <input type="checkbox"/> Position of disembarkation (dd° mm' ss") specify quadrant (circle) LATITUDE <input type="text"/> S <input type="checkbox"/> N <input type="checkbox"/> LONGITUDE <input type="text"/> E <input type="checkbox"/> W <input type="checkbox"/>
5. Date / time of embarkation (UTC) DD <input type="text"/> MM <input type="text"/> YYYY <input type="text"/> hh <input type="text"/> mm <input type="text"/>		7. Date / time of disembarkation (UTC) DD <input type="text"/> MM <input type="text"/> YYYY <input type="text"/> hh <input type="text"/> mm <input type="text"/>
VESSEL INFORMATION		
Vessel identification 8. Vessel name <input type="text"/>		9. Vessel flag/chartering state <input type="text"/>
11. Vessel IMO or Lloyds number <input type="text"/>		10. Vessel IOTC number <input type="text"/>
12. International radio call (IRCS) <input type="text"/>		13. Vessel port/country of registration <input type="text"/>
14. Vessel registration number <input type="text"/>		15. Vessel phone(s) <input type="text"/>
16. Vessel fax(es) <input type="text"/>		17. Vessel email(s) <input type="text"/>
18. Licensed target species (FAO codes) <input type="text"/>		19. Main fishing gear <input type="text"/>
Vessel owner and personnel		
Registered owner 20. Full name <input type="text"/>		Charter operator 23. Full name <input type="text"/>
21. Nationality <input type="text"/>		24. Nationality <input type="text"/>
22. Contact details <input type="text"/>		25. Contact details <input type="text"/>
Fishing master 26. Full name <input type="text"/>		Skipper (Captain) 28. Full name <input type="text"/>
27. Nationality <input type="text"/>		29. Nationality <input type="text"/>
30. Crew n° <input type="text"/>		

Revised September 2020	Notes on FORM 1-PS (pg. 1)
IOTC ROS minimum standard data-fields are highlighted in this form in light grey. These are to be collected and reported to the IOTC.	
OBSERVED TRIP NUMBER: 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. 2018/0123-IOTCFRA001-PS).	
1. OBSERVER IOTC REGISTRATION NUMBER: Record observer registration number allocated by the IOTC Secretariat to be used on all observer data submissions ('FFF' is a 3-letter alpha-code identifying the flag country / fishing entity responsible for the observer, 000 is a sequence of three digits uniquely identifying the observer (e.g. IOTCFRA001)).	
2. OBSERVER NAME: Record full name of the scientific observer that collected the data on-board the fishing vessel. Last name first, first name last.	
3. OBSERVER NATIONALITY: Record scientific observer nationality as it appears in the observer passport.	
4. LOCATION OF EMBARKATION: Record country, name and / or geographical coordinates of the port where the observer boarded the vessel. If the observer embarked at sea outside port limits via a vessel transfer, record 'at sea' and record the position in Latitude and Longitude.	
5. DATE AND TIME EMBARKATION: Record date and time that the observer boarded the vessel. Embarkation date / time may not coincide with the date/time the vessel sails.	
6. LOCATION OF DISEMBARKATION: Record country, name and / or geographical coordinates of the port where the observer disembarked. If the observer disembarked at sea outside port limits via a vessel transfer, record 'at sea' and record the position in Latitude and Longitude.	
7. DATE AND TIME OF DISEMBARKATION: Record date and time that the observer disembarked from the vessel. Note that observer's disembarkation date/ time may not coincide with the date/time the vessel lands.	
8. VESSEL NAME: Record vessel full name with no abbreviations, as recorded on vessel official documents, and crosschecked with the name recorded on the vessel itself (any discrepancies to be reported to the IOTC). Record vessel's name correct spelling including any corresponding numbers. E.g. "Agnes 83".	
9. VESSEL FLAG / CHARTERING STATE: Record country where vessel is registered as shown on its registration documents. Where chartering occurs, name of chartering country. Note that vessel flag state (or chartering flag) may not be the same as the nationality from which the vessel originates.	
10. VESSEL IOTC NUMBER: Record vessel IOTC number as per the IOTC Record of Authorized Vessels (see https://iotc.org/vessels/current), crosschecked with the number recorded on vessel certificates (any discrepancies to be reported to the IOTC).	
11. VESSEL IMO OR LLOYD'S NUMBER: Record the number allocated to the vessel by the International Maritime Organization of the United Nations (e.g.: IMO8814275).	
12. INTERNATIONAL RADIO CALL SIGN (IRCS): Record vessel radio call sign (if available). This is the series of numbers and letters painted on vessel's side or superstructure.	
13. VESSEL PORT OF REGISTRATION: Record vessel's port (and country) of registry as shown on its registration documents and lettered on the stern of the ship's hull.	
14. VESSEL REGISTRATION NUMBER: Record vessel registration number, i.e. the number issued by country (Flag State) 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).	
15. VESSEL PHONE / 16. VESSEL FAX / 17. VESSEL EMAIL: When available, record vessel contacts details, taking note of the ocean region code. Vessel may have several contact numbers and email addresses depending on the satellite communications systems installed onboard; record them all.	
18. LICENSED TARGET SPECIES: Record licensed target species as specified in vessel licences or permit conditions. Use FAO spp. 3-alpha code. Note that vessels generally target a narrow range of spp. some might not be an IOTC species; record them all.	
19. MAIN FISHING GEAR: Specify vessel main fishing gear: gillnet (GIL), drifting longline (DLL), pole and line (TPL) or tuna purse seine (TPS).	
REGISTERED OWNER 20. FULL NAME / 21. NATIONALITY / 22. CONTACT DETAILS: Record the name of Company or Person (last name first, first name last) who owns the vessel, nationality and contact details in full (mobile and fix phone, email). This should be in the Vessel Registration Papers.	
CHARTERER / OPERATOR 23. FULL NAME / 24. NATIONALITY / 25. CONTACT DETAILS: Where the vessel has been chartered 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 (mobile and fix phone, email).	
FISHING MASTER 26. FULL NAME / 27. NATIONALITY: Record fishing master name (last name first, first name last) and nationality in full.	
SKIPPER 28. FULL NAME / 29. NATIONALITY: Record skipper name (last name first, first name last) and nationality in full. Note: in some instances, the fishing master and skipper may be the same person. In such cases record here "N/A" for not applicable.	
30. CREW NUMBER: Record the number of crew, cross checked against vessel's crew list.	
31. PORT OF DEPARTURE: Record the country, name and / or geographical coordinates of the port from where the vessel sailed. 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.	
32. DATE / TIME VESSEL SAILED: Record the date and time the vessel departed from port or from a transshipment location. Note that date / time the vessel sails may not coincide with observer's embarkation date / time.	
33. PORT OF RETURN: Country, name and / or geographical coordinates of the port where the vessel returned. If the vessel arrived at a transshipment location record 'at-sea' plus the geographical coordinates corresponding to the location the transshipment started. If you disembark before the vessel returns to port record expected port of return as per vessel.	



FORM 2: Fishing gear

This form contains detailed questions about the fishing gear. Most fishing gears are kept on the deck of the vessel.

IOTC REGIONAL OBSERVER SCHEME
LONGLINE GEAR SPECIFICATIONS
FORM 2-LL

Observer full name: _____ Observer trip number: _____

Special equipment or machinery (circle either "YES" or "NO" to indicate presence or absence of a device on-board)

1. Line setter YES NO 2. Line hauler YES NO 3. Bait casting machine YES NO

General gear attributes (note marine material code as per table provided in notes and circle units of measure used)

4. Marine material _____ 5. Mainline length _____ 6. Mainline diameter _____

Branchline configurations (note branchline material code as per table provided in notes and circle units of measure used)

Branchline configuration # _____

7. Metres _____

8. Length _____

9. Diameter _____

Branchline configuration # _____

7. Metres _____

8. Length _____

9. Diameter _____

Additional branchline details (circle storage method used)

10. Branchline storage _____

11. DMS used _____

Trawl line details (m) in the following fields if the vessel uses trawl (m) (circle units of measure used)

12. Trawl line length _____

13. Streamer line length (m) _____

14. Streamer line length (m) _____

15. Streamer line length (m) _____

16. No. streamers per line _____

17. Distance between streamers _____

18. Trawl line attached height _____

19. Streamer reach surface (m) _____

20. Trawl object number _____

21. Trawl object type _____

IOTC REGIONAL OBSERVER SCHEME
PURSE-SEINE GEAR SPECIFICATIONS
FORM 2-PS

Observer full name: _____ Observer trip number: _____

Special equipment or machinery (circle either "YES" or "NO" to indicate presence or absence of a device on-board)

1. Power block YES NO 2. Purse winch YES NO

General gear attributes (circle units used)

3. Maximum length of the net _____ 4. Maximum depth of the net _____ 5. Bunt stretched mesh size _____

6. Mid-net stretched mesh size _____ 7. Maximum bunt capacity _____ 8. Skiff power _____

Notes on FORM 2-PS

IOTC ROS minimum standard data-fields are highlighted in this form in light grey. These are to be collected and reported to the IOTC.

1. POWER BLOCK: A powerful hydraulic power block attached to the end of a boom used to haul the net back and stretch ready for the next set. Indicate Yes if on board No if not sighted.

2. PURSE WINCH: Equipment or machinery used to which the other cable of the purse line that runs through the purse rings and that serve to close (purse) the bottom of the net once it has been set around a school of fish. Indicate Yes if on board No if not sighted.

3. MAXIMUM LENGTH OF THE NET: Record the maximum length of the net according to the net specifications. This corresponds to the length of the topline. Note: specify units (preferably meters).

4. MAXIMUM DEPTH OF THE NET: Record the maximum depth of the net (preferably in meters) according to the net specifications.

5. BUNT STRETCHED MESH SIZE: Record the mesh average stretched length (knit to knot) of the bunt (preferably in "CM" centimeters), also called choker or sack of the net (line purse-seine net scheme). Ask the Deck Boss. Verify value given by measuring 3 stretched mesh lengths (knot to knot) and calculating the average. If values differ, record measured average mesh size and report this on your trip report.

6. MID-NET STRETCHED MESH SIZE: Record the mesh average stretched length (knit to knot) of the mid-net (preferably in "CM" centimeters), also called main body or shoulder of the net (line purse-seine net scheme). Ask the Deck Boss. Verify value given by measuring 3 stretched mesh lengths (knot to knot) and calculating the average. If values differ, record measured average mesh size and report this on your trip report.

7. MAXIMUM BUNT CAPACITY: Record the maximum weight capacity of a full bunt in metric tonnes (MT).

8. SKIFF POWER: Record the skiff engine power. Circle the correct unit for skiff engine power provided by vessel officers (HP, BHP, KW).

PURSE-SEINE NET SCHEME

1. Bunt (choker or sack)

2. Mid-net (main body or shoulder)

3. Wing

4. Float line

5. Lead line (chain foot rope)

6. Girth line (or bridle)

7. Purse wire (or purse line)

8. Purse ring (bottom ring)

9. Floaters

TYPES OF BRAIL THAT CAN BE SEEN IN PURSE SEINERS

Long handle brail (Image 0-PS)

Heavy framed brail (Image 0-PS)

How to measure stretched mesh size

IOTC REGIONAL OBSERVER SCHEME
GILLNET GEAR SPECIFICATIONS
FORM 2-GIL

Observer Name: _____ Observed trip No: _____ Gillnet sequential number: _____

Special equipment or machinery (circle either "YES" or "NO" to indicate presence or absence of a device on-board)

1. Net drum hauler present on-board? YES NO

Gillnet attributes (detail the specifications of each gillnet present on-board during the observed trip. Circle units used)

2. Total number of panels _____ 3. Panels stacked? YES NO

4. Net length _____ 5. Net depth _____ 6. Net material BR MO MU OTH UNK

7. Mesh AV stretched length _____ 8. Mesh max. length _____ 9. Mesh min. length _____

10. Mesh count (vertical) _____ 11. Hanging ratio _____ 12. Net web colour _____

13. Float types FLP HDP OTH _____ 14. Float number _____ 15. Distance between floats _____

16. Driftlines used? YES NO 17. Driftline length _____

18. Sinker type _____

Number _____

Average weight (kg) _____

Notes on FORM 2-GIL

IOTC ROS minimum standard data-fields are highlighted in this form in light grey. These are to be collected and reported to the IOTC.

Gillnet sequential number (S): A unique sequential number is to be allocated to each gillnet used by the vessel. Any changes to individual gillnet specifications are to be considered a change of gillnet and a new Form 2-GIL will need to be completed.

1. NET DRUM / HAULER PRESENT ON-BOARD? Vessels are normally equipped with a hydraulic net hauler. However, they can also use net drums to both haul and close the net. Indicate if there's a net hauler on board.

2. TOTAL NUMBER OF PANELS: Record the number of panels making up the net.

3. PANELS STACKED? Indicate Yes or No if there are any panels stacked, i.e. if two or more panels of netting were together vertically, one on top of the other, to intentionally fish "twice deep".

4. NET LENGTH: Calculate and record net wing length (length). Cross check information provided by the crew.

5. NET DEPTH: Calculate and record net vertical height (depth). Cross check information provided by the crew.

6. NET MATERIAL: Record the material of the net webbing. Use codes provided in the Table 1.

7. STRETCHED MESH SIZE: Calculate and record the mesh average stretched lengths (knit to knot).

8. MESH MAXIMUM LENGTH: Record the maximum stretched mesh length measured.

9. MESH COUNT - VERTICAL (V): Calculate and record the number of vertical meshes.

10. HANGING RATIO (H): Calculate and record gillnet hanging ratio. Cross check information provided by the crew.

11. NET WEB COLOURS: Record the colour(s) of the net webbing. Use codes provided in the Table 2.

12. FLOAT TYPES: Indicate the type of buoyancy aid that is attached to the gear-head-rope using codes from Table 3.

13. FLOAT NUMBER: Record the approximate number of floats used in the gillnet. Include the floats across a space that may occur at the knuckle at the end of the net.

14. DISTANCE BETWEEN FLOATS: Calculate and record the average distance between gillnet floats.

15. DRIFTLINE LENGTH: Indicate Yes if driftlines are used in this gillnet No if not.

16. DRIFTLINE DEPTH: Calculate and record the average length of the driftlines (if used).

17. SINKER TYPE, NUMBER AND WEIGHT: For each sinker type, record approximate number of sinkers attached to the floatline and their average weight. This information can be requested from the crew and cross-checked by the observer.

TABLE 1: NET MATERIAL

MO Multiflament
MU Multiflament
UNK Unknown
BR Braided
OTH Other (to be detailed)

TABLE 2: NET WEB COLOUR

GRE Green
CLA Clear
WHI White
PNK Pink
BLA Black
GRY Grey
BLU Blue
MUL Multi-colour
RED Red
OTH Other

TABLE 3: FLOATS TYPE

FLP Float line with foam core
FLA Styrofoam (Polystyrene)
HDP HDPE plastic
MU Multiflament
PVC PVC plastic
UNK Unknown
OTH Other provide details

IOTC REGIONAL OBSERVER SCHEME
POLE AND LINE GEAR SPECIFICATIONS
FORM 2-PL

Observer Name: _____ Observed Trip No: _____

Special equipment or machinery

1. Live bait tanks capacity _____ 2. Number of automatic poles _____

General gear attributes

3. # Anglers _____ 4. Pole material () Bamboo Carbon Fibre glass _____

5. Hook types: _____

6. Lures / jiggers used? Y N

Notes on FORM 2-PL

IOTC ROS minimum standard data-fields are highlighted in this form and in these notes in light grey. These have to be reported to the IOTC.

1. LIVE BAIT TANKS CAPACITY: Take volume of the tanks used to keep the live bait to be recorded in cubic metres (m³).

2. # AUTOMATIC POLES: Take number of automatic poles that was used on a vessel.

3. # ANGLERS: Minimum number of crew taking of the same line during a unique event, observed during the trip.

4. POLE MATERIAL: Specify the materials the poles are made of (e.g. bamboo, fibre glass or carbon fibre). If poles of different materials are present on board, list the corresponding materials. If made of another material, describe it. (e.g. other than bamboo, carbon and metal wood were observed on board the vessel).

5. HOOK TYPES: Indicate the type of hooks used for the observed trip. By selecting and recording hook type codes from the table below.

6. LURES / JIGGERS USED? Record Yes if the vessel used lures or jiggers during the observed trip and No if it doesn't. If Yes, record lure or jiggar details in the table provided (e.g. lure, lure brand and hook type).

LURE OR JIGGER #

1. LURE (JIGGER) TYPE: Fishes lure hook. There are many types of fishes lure, then include the following lures: 1st a 1st 2nd a 2nd 3rd a 3rd 4th a 4th 5th a 5th 6th a 6th 7th a 7th 8th a 8th 9th a 9th 10th a 10th 11th a 11th 12th a 12th 13th a 13th 14th a 14th 15th a 15th 16th a 16th 17th a 17th 18th a 18th 19th a 19th 20th a 20th 21st a 21st 22nd a 22nd 23rd a 23rd 24th a 24th 25th a 25th 26th a 26th 27th a 27th 28th a 28th 29th a 29th 30th a 30th 31st a 31st 32nd a 32nd 33rd a 33rd 34th a 34th 35th a 35th 36th a 36th 37th a 37th 38th a 38th 39th a 39th 40th a 40th 41st a 41st 42nd a 42nd 43rd a 43rd 44th a 44th 45th a 45th 46th a 46th 47th a 47th 48th a 48th 49th a 49th 50th a 50th 51st a 51st 52nd a 52nd 53rd a 53rd 54th a 54th 55th a 55th 56th a 56th 57th a 57th 58th a 58th 59th a 59th 60th a 60th 61st a 61st 62nd a 62nd 63rd a 63rd 64th a 64th 65th a 65th 66th a 66th 67th a 67th 68th a 68th 69th a 69th 70th a 70th 71st a 71st 72nd a 72nd 73rd a 73rd 74th a 74th 75th a 75th 76th a 76th 77th a 77th 78th a 78th 79th a 79th 80th a 80th 81st a 81st 82nd a 82nd 83rd a 83rd 84th a 84th 85th a 85th 86th a 86th 87th a 87th 88th a 88th 89th a 89th 90th a 90th 91st a 91st 92nd a 92nd 93rd a 93rd 94th a 94th 95th a 95th 96th a 96th 97th a 97th 98th a 98th 99th a 99th 100th a 100th 101st a 101st 102nd a 102nd 103rd a 103rd 104th a 104th 105th a 105th 106th a 106th 107th a 107th 108th a 108th 109th a 109th 110th a 110th 111th a 111th 112th a 112th 113th a 113th 114th a 114th 115th a 115th 116th a 116th 117th a 117th 118th a 118th 119th a 119th 120th a 120th 121st a 121st 122nd a 122nd 123rd a 123rd 124th a 124th 125th a 125th 126th a 126th 127th a 127th 128th a 128th 129th a 129th 130th a 130th 131st a 131st 132nd a 132nd 133rd a 133rd 134th a 134th 135th a 135th 136th a 136th 137th a 137th 138th a 138th 139th a 139th 140th a 140th 141st a 141st 142nd a 142nd 143rd a 143rd 144th a 144th 145th a 145th 146th a 146th 147th a 147th 148th a 148th 149th a 149th 150th a 150th 151st a 151st 152nd a 152nd 153rd a 153rd 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296th 297th a 297th 298th a 298th 299th a 299th 300th a 300th 301st a 301st 302nd a 302nd 303rd a 303rd 304th a 304th 305th a 305th 306th a 306th 307th a 307th 308th a 308th 309th a 309th 310th a 310th 311st a 311st 312nd a 312nd 313th a 313th 314th a 314th 315th a 315th 316th a 316th 317th a 317th 318th a 318th 319th a 319th 320th a 320th 321st a 321st 322nd a 322nd 323rd a 323rd 324th a 324th 325th a 325th 326th a 326th 327th a 327th 328th a 328th 329th a 329th 330th a 330th 331st a 331st 332nd a 332nd 333rd a 333rd 334th a 334th 335th a 335th 336th a 336th 337th a 337th 338th a 338th 339th a 339th 340th a 340th 341st a 341st 342nd a 342nd 343rd a 343rd 344th a 344th 345th a 345th 346th a 346th 347th a 347th 348th a 348th 349th a 349th 350th a 350th 351st a 351st 352nd a 352nd 353rd a 353rd 354th a 354th 355th a 355th 356th a 356th 357th a 357th 358th a 358th 359th a 359th 360th a 360th 361st a 361st 362nd a 362nd 363rd a 363rd 364th a 364th 365th a 365th 366th a 366th 367th a 367th 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FORM 3: Fishing event (Set)

This form contains detailed information about the fishing event (set). It should be completed each time the fishing gear is deployed.

IOTC REGIONAL OBSERVER SCHEME
LONGLINE FISHING EVENT
FORM 3-LL (pg. 1)
Page 1 of 2

Observer Name: _____ Observed trip No: _____ Set number: _____

SETTING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

1. Start setting date and time: DD MM YYYY hh mm
2. Start setting position specify quadrant (circle): LATITUDE S N LONGITUDE E W
3. End setting date and time: DD MM YYYY hh mm
4. End setting position specify quadrant (circle): LATITUDE S N LONGITUDE E W

5. Vessel speed: knots
6. Line setter speed: m/s
7. Length of mainline set: km
8. Branchline dip-on-time: seconds
9. Buoys dip-on-time: seconds
10. Total No. of hooks set: _____
11. Total No. floats set: _____
12. No. hooks set between floats: _____
13. Distance between branchlines: m
14. Floe line length(s): m
15. Total No. redolman buoys set: _____

16. Attached lights (No. of lights attached to the gear per type and colour)

TYPE OF LIGHT	Number of yellow lights	Number of red lights	Number of green lights	Number of blue lights	Number of other colour lights
Chemical light sticks					
Electric light					
Luminescent light					
Other					

17. Shark lines set (circle): Yes No
18. Number of shark lines set: _____
19. Target species (circle): _____
20. VMS on: Yes No
21. Branchline details (to be filled in in accordance to Form 2-LL)
Branchline configuration no. #1 #2 #3 #4 #5 #6 #7
Number of branchlines set: _____
Hook details
22. Hook type: _____
Type: _____
% Hooks set by type: _____
Variations in hook type: _____
Bait details
23. Bait: _____
Type: _____
Species: _____
Ratio (%): _____
Dye colour: _____

MITIGATION MEASURES circle the correct answer(s) where needed

24. No. of ton-lines deployed: _____
25. Minimum deck lighting used: Yes No
26. Hooks set between dusk & dawn: Yes No
27. Branchline weighted: Yes No
28. Av. branchline weight: g
29. % Branchline weighted: %
30. Hook-sinker distance: m
31. Underwater setting: Yes No
32. Other mitigation measures used: _____

HAULING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

33. Start hauling date and time: DD MM YYYY hh mm
34. Start hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W
35. End hauling date and time: DD MM YYYY hh mm
36. End hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W

37. Offal management (circle): Batch Ad hoc
38. Position of offal disposal (circle): Bow Port Starboard Stern
39. Method(s) to stun fish (circle): CO₂ ELO PS SP NA
40. Bird scaring device at hauler (circle): Yes No

41. Number of bite-offs by branchline type (to be filled in in accordance to Form 2-LL)
Branchline configuration number: #1 #2 #3 #4 #5 #6 #7
Number of bite-offs: _____
42. No. of hooks retrieved during line hauling observation periods
43. Sampling protocol (circle): EX MRS SP BWP

SETTING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

44. VESSEL SPEED: The vessel average speed during setting (in knots).
45. LINE SETTER SPEED: Only record if there is a line setter onboard with a visible line setting speed gauge. Record the speed displayed on the gauge.
46. LENGTH OF MAINLINE SET: The total deployed length of the mainline for the set.
47. BRANCHLINE CLIP ON TIME: Record the branchline clip on time in units of seconds. This information is best collected when there is a line setter onboard.
48. BUOYS CLIP ON TIME: Record the buoys clip on time (set intervals) in units of seconds. This is best done when there is a line setter onboard.
49. TOTAL NUMBER HOOKS SET: Calculate the total number of hooks deployed for the set using one of the processes described.
50. TOTAL NUMBER FLOATS SET: The total number of floats deployed during the set. This should not include the redolman buoys.
51. NUMBER OF HOOKS SET BETWEEN FLOATS: No. of hooks set between 2 floats.
52. FLOE LINE LENGTH(S): Record the different lengths of the floe lines used in metres.
53. ATTACHED LIGHTS: Number of lights attached to the branchlines per type and colour.
54. SHARK LINES SET: Note that shark lines are attached directly to the longline floats.
55. NUMBER OF SHARK LINES SET: Count how many shark lines are set.
56. TARGET SPECIES: The species the vessel is targeting for the specific set.
57. VMS ON? Check if the VMS is on during setting and hauling operations.

MITIGATION MEASURES

24. NO. OF TON-LINES DEPLOYED: Record the total number of ton-lines deployed during the setting operation. Record zero if none.
25. MINIMUM DECK LIGHTING USED: Indicate whether night setting took place with minimum deck lighting.
26. HOOKS SET BETWEEN DUSK & DAWN: Indicate whether all hooks have been set between dusk and dawn.
27. BRANCHLINE WEIGHTED? Indicate if weights, sinkers or leaded sinkers are deployed on branchlines prior to setting.
28. AVERAGE BRANCHLINE WEIGHTS: Record the average added weights to the branchline in grams (g) (weight/sinkers attached to the branchlines).
29. % BRANCHLINE WEIGHTED: Indicate the proportion of branchlines weighted.
30. HOOK-SINKER DISTANCE: The distance, in centimetres (cm), of the weights, sinkers or leaded sinkers from the eye of the hook.
31. UNDERWATER SETTINGS: Indicate if the bait is protected (if it reaches a certain depth).
32. OTHER MITIGATION MEASURES USED: Record any other mitigation measures observed during the set using codes provided in Table 3.

HAULING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

33. Start hauling date and time: DD MM YYYY hh mm
34. Start hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W
35. End hauling date and time: DD MM YYYY hh mm
36. End hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W

37. Offal management (circle): Batch Ad hoc
38. Position of offal disposal (circle): Bow Port Starboard Stern
39. Method(s) to stun fish (circle): CO₂ ELO PS SP NA
40. Bird scaring device at hauler (circle): Yes No

41. Number of bite-offs by branchline type (to be filled in in accordance to Form 2-LL)
Branchline configuration number: #1 #2 #3 #4 #5 #6 #7
Number of bite-offs: _____
42. No. of hooks retrieved during line hauling observation periods
43. Sampling protocol (circle): EX MRS SP BWP

SETTING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

44. VESSEL SPEED: The vessel average speed during setting (in knots).
45. LINE SETTER SPEED: Only record if there is a line setter onboard with a visible line setting speed gauge. Record the speed displayed on the gauge.
46. LENGTH OF MAINLINE SET: The total deployed length of the mainline for the set.
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48. BUOYS CLIP ON TIME: Record the buoys clip on time (set intervals) in units of seconds. This is best done when there is a line setter onboard.
49. TOTAL NUMBER HOOKS SET: Calculate the total number of hooks deployed for the set using one of the processes described.
50. TOTAL NUMBER FLOATS SET: The total number of floats deployed during the set. This should not include the redolman buoys.
51. NUMBER OF HOOKS SET BETWEEN FLOATS: No. of hooks set between 2 floats.
52. FLOE LINE LENGTH(S): Record the different lengths of the floe lines used in metres.
53. ATTACHED LIGHTS: Number of lights attached to the branchlines per type and colour.
54. SHARK LINES SET: Note that shark lines are attached directly to the longline floats.
55. NUMBER OF SHARK LINES SET: Count how many shark lines are set.
56. TARGET SPECIES: The species the vessel is targeting for the specific set.
57. VMS ON? Check if the VMS is on during setting and hauling operations.

MITIGATION MEASURES

24. NO. OF TON-LINES DEPLOYED: Record the total number of ton-lines deployed during the setting operation. Record zero if none.
25. MINIMUM DECK LIGHTING USED: Indicate whether night setting took place with minimum deck lighting.
26. HOOKS SET BETWEEN DUSK & DAWN: Indicate whether all hooks have been set between dusk and dawn.
27. BRANCHLINE WEIGHTED? Indicate if weights, sinkers or leaded sinkers are deployed on branchlines prior to setting.
28. AVERAGE BRANCHLINE WEIGHTS: Record the average added weights to the branchline in grams (g) (weight/sinkers attached to the branchlines).
29. % BRANCHLINE WEIGHTED: Indicate the proportion of branchlines weighted.
30. HOOK-SINKER DISTANCE: The distance, in centimetres (cm), of the weights, sinkers or leaded sinkers from the eye of the hook.
31. UNDERWATER SETTINGS: Indicate if the bait is protected (if it reaches a certain depth).
32. OTHER MITIGATION MEASURES USED: Record any other mitigation measures observed during the set using codes provided in Table 3.

HAULING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

33. Start hauling date and time: DD MM YYYY hh mm
34. Start hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W
35. End hauling date and time: DD MM YYYY hh mm
36. End hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W

37. Offal management (circle): Batch Ad hoc
38. Position of offal disposal (circle): Bow Port Starboard Stern
39. Method(s) to stun fish (circle): CO₂ ELO PS SP NA
40. Bird scaring device at hauler (circle): Yes No

41. Number of bite-offs by branchline type (to be filled in in accordance to Form 2-LL)
Branchline configuration number: #1 #2 #3 #4 #5 #6 #7
Number of bite-offs: _____
42. No. of hooks retrieved during line hauling observation periods
43. Sampling protocol (circle): EX MRS SP BWP

SETTING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

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53. ATTACHED LIGHTS: Number of lights attached to the branchlines per type and colour.
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56. TARGET SPECIES: The species the vessel is targeting for the specific set.
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MITIGATION MEASURES

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28. AVERAGE BRANCHLINE WEIGHTS: Record the average added weights to the branchline in grams (g) (weight/sinkers attached to the branchlines).
29. % BRANCHLINE WEIGHTED: Indicate the proportion of branchlines weighted.
30. HOOK-SINKER DISTANCE: The distance, in centimetres (cm), of the weights, sinkers or leaded sinkers from the eye of the hook.
31. UNDERWATER SETTINGS: Indicate if the bait is protected (if it reaches a certain depth).
32. OTHER MITIGATION MEASURES USED: Record any other mitigation measures observed during the set using codes provided in Table 3.

IOTC REGIONAL OBSERVER SCHEME
PURSEINE FISHING EVENT
FORM 3-PS
Page 1 of 2

Observer Name: _____ Observed trip No: _____ Fishing event number: _____

SETTING OPERATIONS collect all dates and times in Coordinated Universal Time (UTC) and positions as defined in the IOTC.

1. Start setting date and time: DD MM YYYY hh mm
2. Start setting position specify quadrant (circle): LATITUDE S N LONGITUDE E W
3. Beaufort: _____
4. School sighting cues: _____
5. First detection method: _____
6. School size: _____
7. Time net pursued: _____
8. Time start hauling: _____
9. Time end hauling: _____
10. Time skiff onboard: _____
11. Max closing net depth: _____

Object details for sets conducted on natural or artificial FADs

12. Buoy ID: _____
13. Buoy equipped with artificial lights (circle): Deployed? Y N Recovered? Y N
14. Artificial FAD design use codes to describe net and materials: _____

Catch and release details

15. Sighted before setting? _____
16. Species (FAO code): _____
17. Number sighted: _____
18. Caught in the net? _____

Support vessel

19. Support vessel present? _____
20. Support vessel name: _____
21. Participation? _____
22. Participation description: _____

Cutwater

23. Direction: _____
24. Speed: _____
25. Depth: _____

Notes on FORM 3-PS

IOTC ROS minimum standard data fields are highlighted in this form in light gray. These are to be collected and reported to the IOTC.

PAGE OF: Fill in Form 3-PS through the trip as Page 1, Page 2, etc. At end of trip, check all pages are there and fill in last page number on every page.

SET NUMBER: Record set number. Each time the net is deployed a unique set number is allocated. This should be a four-digit numerical code beginning 0001. Set numbers should be consecutive from the start to the end of the observed trip. Start at 0001 No. 11, Set No. 21, etc., all through a trip.

SETTING OPERATIONS set starts when the skiff is launched and ends when the skiff is on-board the vessel!

3. BEAUFORT: Wind force at fishing event start (use code).

4. SCHOOL SIGHTING CUES: First three cues which lead the vessel to detect the tuna school (use codes provided).

5. SCHOOL FIRST DETECTION: How the vessel detects the tuna school. Tossing object or bait. If more than one method used, record only what 1st first made the vessel change course (use codes provided).

6. SCHOOL SIZE: Estimation of the size of the tuna school targeted (in tonnes). Request this information from the bridge officer.

SCHOOL DETECTION METHOD

Code	Method
01	Visual
02	Acoustic
03	Acoustic + visual
04	Acoustic + visual + other
05	Acoustic + visual + other + other
06	Acoustic + visual + other + other + other
07	Acoustic + visual + other + other + other + other
08	Acoustic + visual + other + other + other + other + other
09	Acoustic + visual + other + other + other + other + other + other
10	Acoustic + visual + other + other + other + other + other + other + other

SCHOOL FIRST DETECTION METHOD

Code	Method
01	Visual
02	Acoustic
03	Acoustic + visual
04	Acoustic + visual + other
05	Acoustic + visual + other + other
06	Acoustic + visual + other + other + other
07	Acoustic + visual + other + other + other + other
08	Acoustic + visual + other + other + other + other + other
09	Acoustic + visual + other + other + other + other + other + other
10	Acoustic + visual + other + other + other + other + other + other + other

MITIGATION MEASURES

24. NO. OF TON-LINES DEPLOYED: Record the total number of ton-lines deployed during the setting operation. Record zero if none.
25. MINIMUM DECK LIGHTING USED: Indicate whether night setting took place with minimum deck lighting.
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28. AVERAGE BRANCHLINE WEIGHTS: Record the average added weights to the branchline in grams (g) (weight/sinkers attached to the branchlines).
29. % BRANCHLINE WEIGHTED: Indicate the proportion of branchlines weighted.
30. HOOK-SINKER DISTANCE: The distance, in centimetres (cm), of the weights, sinkers or leaded sinkers from the eye of the hook.
31. UNDERWATER SETTINGS: Indicate if the bait is protected (if it reaches a certain depth).
32. OTHER MITIGATION MEASURES USED: Record any other mitigation measures observed during the set using codes provided in Table 3.

HAULING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

33. Start hauling date and time: DD MM YYYY hh mm
34. Start hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W
35. End hauling date and time: DD MM YYYY hh mm
36. End hauling position specify quadrant (circle): LATITUDE S N LONGITUDE E W

37. Offal management (circle): Batch Ad hoc
38. Position of offal disposal (circle): Bow Port Starboard Stern
39. Method(s) to stun fish (circle): CO₂ ELO PS SP NA
40. Bird scaring device at hauler (circle): Yes No

41. Number of bite-offs by branchline type (to be filled in in accordance to Form 2-LL)
Branchline configuration number: #1 #2 #3 #4 #5 #6 #7
Number of bite-offs: _____
42. No. of hooks retrieved during line hauling observation periods
43. Sampling protocol (circle): EX MRS SP BWP

SETTING OPERATIONS collect all dates and times in UTC and positions as defined in the IOTC. Circle units used.

44. VESSEL SPEED: The vessel average speed during setting (in knots).
45. LINE SETTER SPEED: Only record if there is a line setter onboard with a visible line setting speed gauge. Record the speed displayed on the gauge.
46. LENGTH OF MAINLINE SET: The total deployed length of the mainline for the set.
47. BRANCHLINE CLIP ON TIME: Record the branchline clip on time in units of seconds. This information is best collected when there is a line setter onboard.
48. BUOYS CLIP ON TIME: Record the buoys clip on time (set intervals) in units of seconds. This is best done when there is a line setter onboard.
49. TOTAL NUMBER HOOKS SET: Calculate the total number of hooks deployed for the set using one of the processes described.
50. TOTAL NUMBER FLOATS SET: The total number of floats deployed during the set. This should not include the redolman buoys.
51. NUMBER OF HOOKS SET BETWEEN FLOATS: No. of hooks set between 2 floats.
52. FLOE LINE LENGTH(S): Record the different lengths of the floe lines used in metres.
53. ATTACHED LIGHTS: Number of lights attached to the branchlines per type and colour.
54. SHARK LINES SET: Note that shark lines are attached directly to the longline floats.
55. NUMBER OF SHARK LINES SET: Count how many shark lines are set.
56. TARGET SPECIES: The species the vessel is targeting for the specific set.
57. VMS ON? Check if the VMS is on during setting and hauling operations.

MITIGATION MEASURES

24. NO. OF TON-LINES DEPLOYED: Record the total number of ton-lines deployed during the setting operation. Record zero if none.
25. MINIMUM DECK LIGHTING USED: Indicate whether night setting took place with minimum deck lighting.
26. HOOKS SET BETWEEN DUSK & DAWN: Indicate whether all hooks have been set between dusk and dawn.
27. BRANCHLINE WEIGHTED? Indicate if weights, sinkers or leaded sinkers are deployed on branchlines prior to setting.
28. AVERAGE BRANCHLINE WEIGHTS: Record the average added weights to the branchline in grams (g) (weight/sinkers attached to the branchlines).
29. % BRANCHLINE WEIGHTED: Indicate the proportion of branchlines weighted.
30. HOOK-SINKER DISTANCE: The distance, in centimetres (cm), of the weights, sinkers or leaded sinkers from the eye of the hook.
31. UNDERWATER SETTINGS: Indicate if the bait is protected (if it reaches a certain depth).
32. OTHER MITIGATION MEASURES USED: Record any other mitigation measures observed during the set using codes provided in Table 3.



FORM 3A: Daily activity log (PS and PL only)

This form contains detailed questions on vessel daily activities and it should be completed by the observer at two-hour intervals from sunrise to sunset and at the start of every fishing activity.

This form should only to be used by Observers deployed in surface fisheries: Tuna Purse-seine and Tuna Pole and Line.

[illegible]

FORM 4: Set- Catch details

This form contains questions about fishing set catch details, including target and non-target catches together with Species of Special Interest. It should be completed each time the fishing gear is hauled.

IOTC REGIONAL OBSERVER SCHEME										FORM 4- PS	
PURSEINE FISHING EVENT – CATCH DETAILS										Page _____	of _____
Observer name:				Observed trip no:				Set number:			
CATCH DETAILS to be recorded per species for all spp. Use codes provided in form notes to fill in data collection fields.											
	Catch details				Weight				Additional details on non-target species (except SSI)		
Catch #	1. Species	2. Fate	3. Sampling method	4. Number	5. Processing type	6. Value (caride unit used)	7. Estimation method	8. Condition at capture	9. Condition at release		
001						mT	Rg				
002						mT	Rg				
003						mT	Rg				
004						mT	Rg				
005						mT	Rg				
006						mT	Rg				
007						mT	Rg				
008						mT	Rg				
009						mT	Rg				
010						mT	Rg				
011						mT	Rg				
012						mT	Rg				
013						mT	Rg				
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060						mT	Rg				
061						mT	Rg	</			

[illegible]

FORM 5 : Set- Biometric information

This form should be completed when conducting standard biometric sampling for every set where there is catch to be sampled.

[illegible][illegible]

FORM 6: Set-Catch details-Biological sampling

This form should be completed when collecting detailed biological information (i.e., length(s)/weight, sex and maturity) and/or biological samples (e.g., otoliths, stomachs, genetic samples, etc.).

[illegible]

IOTC REGIONAL OBSERVER SCHEME												FORM 6-PS	
FISHING EVENT – CATCH DETAILS – Biological data and samples collection												Page _____ of _____	
Observer name: _____												Observed trip number: _____	
Catch #	Spec. #	1. Sampling method	Length 1		Length 2		Weight		Gender and maturity		Sample collected		
			2. Type	3. Value (cm)	4. Type	5. Value (cm)	6. Type of processing	7. Value (Kg)	8. Estimation method	9. Sex	10. Maturity stage level	11. Type	12. Method preservation

Comments (e.g., maturity stage scale used if not those approved by the IOTC and sample destination if not the IOTC Secretariat):



FORM 7: Vessel offloading / transhipment

This form should be completed if at-sea transhipment to a carrier/fishing vessel takes place.

Exception is made should an Observer from the IOTC REGIONAL OBSERVER PROGRAMME be present on the carrier vessel monitoring the transhipment.

IOTC REGIONAL OBSERVER SCHEME										FORM 7-LL (pg. 1)	
VESSEL TRANSHIPMENTS										Page _____ of _____	
Observer Name:					Observed Trip No:						
Vessel transhipment #:											
1. Start date and time (UTC): DD MM YYYY hh mm						2. End date and time (UTC): DD MM YYYY hh mm					
3. Position (dd° mm' ss") specify quadrant (circle) LATITUDE S N LONGITUDE E W						4. Category (tick the correct option): TRANSHIP FROM: NET LOAD: TRANSHIP TO: NET OFFLOAD:					
Product transhipped											
#	5. Spp.	6. Processing type	7. Quantity (encirle unit used)	#	5. Spp.	6. Processing type	7. Quantity (encirle unit used)	#	5. Spp.	6. Processing type	7. Quantity (encirle unit used)
1			Mt Kg No	8			Mt Kg No	1			Mt Kg No
2			Mt Kg No	9			Mt Kg No	2			Mt Kg No
3			Mt Kg No	10			Mt Kg No	3			Mt Kg No
4			Mt Kg No	11			Mt Kg No	4			Mt Kg No
5			Mt Kg No	12			Mt Kg No	5			Mt Kg No
6			Mt Kg No	13			Mt Kg No	6			Mt Kg No
7			Mt Kg No	14			Mt Kg No	7			Mt Kg No
7. Name of carrier / fishing vessel:					8. Flag:						
9. Call sign:					10. Port of registry: Port Country						
11. Registration number											
Vessel transhipment #:											
1. Start date and time (UTC): DD MM YYYY hh mm						2. End date and time (UTC): DD MM YYYY hh mm					
3. Position (dd° mm' ss") specify quadrant (circle) LATITUDE S N LONGITUDE E W						4. Category (tick the correct option): TRANSHIP FROM: NET LOAD: TRANSHIP TO: NET OFFLOAD:					
Product transhipped											
#	5. Spp.	6. Processing type	7. Quantity (encirle unit used)	#	5. Spp.	6. Processing type	7. Quantity (encirle unit used)	#	5. Spp.	6. Processing type	7. Quantity (encirle unit used)
1			Mt Kg No	8			Mt Kg No	1			Mt Kg No
2			Mt Kg No	9			Mt Kg No	2			Mt Kg No
3			Mt Kg No	10			Mt Kg No	3			Mt Kg No
4			Mt Kg No	11			Mt Kg No	4			Mt Kg No
5			Mt Kg No	12			Mt Kg No	5			Mt Kg No
6			Mt Kg No	13			Mt Kg No	6			Mt Kg No
7			Mt Kg No	14			Mt Kg No	7			Mt Kg No
7. Name of carrier / fishing vessel:					8. Flag:						
9. Call sign:					10. Port of registry: Port Country						
11. Registration number											





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IOTC ROS GUIDELINES FOR OBSERVERS

- All *IOTC ROS Guidelines for Observers* provide general information on how to fill in *IOTC ROS Data Collection Forms* and detailed instructions on the filling of individual data fields.
- Observers should refer to gear specific *IOTC ROS Guidelines for Observers*, while filling IOTC data collection forms.



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IOTC Regional Observer Scheme

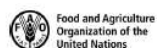
Scientific Field Observer Training

Scientific Field Observer

**Guidelines for Observers
on Tuna Pole-and-liners**



CapMarine
Capricorn Marine Environmental



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Scientific Field Observer

**Guidelines for Observers
on Pelagic Drift Gillnetters**



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GENERAL INSTRUCTIONS ON FORM FILLING

1. Observers should only record directly observed information.
2. Observers should fill in forms only when onboard.
3. Observers should fill in the header details on every form.
4. Forms of the same form type should be numbered together.
5. Observers should write clearly.
6. Observers should correct errors but they should not re-write data



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7. Observers should fill in all required data fields. If the information is not available or applicable, observers should record “NA”, if unknown they should record “UNK”.
8. Where a field requires text to record a name or address these need to be written out in full.
9. Observers should record IOTC data codes where and when requested.
10. Observers should choose the best or most informative code (in some instances a single word or code is required).



CapMarine
Capricorn Marine Environmental



11. All positions (Lat | Long) are to be collected using the same format. Observer should give preference to the format used by the fishing vessel and should stick to it for the duration of the trip (e.g.: DD°MM'SS", or DD° MM,mmm', or DD,ddd°).
12. Observer should record all times on UTC.
13. Where a unit of measurement is specified Observers should ensure that the measurements are recorded for that unit.
e.g. record grams "g" do not record kilograms
[4563] not [4.563]
14. When a unit is not specified Observers should note clearly in which units the measurement was made.





RECORDING MEASUREMENTS

- ✓ All measurements must be **rounded down** to the nearest whole centimetre.
- ✓ All measurements must be **associated to a measurement type** (e.g., Fork Length)
- ✓ All measurements must be **associated to a measurement tool** (e.g., calliper)
- ✓ Always reference if the **length taken** was measured in a **straight or curved** line
- ✓ All measurements **must be recorded using IOTC ROS** approved **codes**
- ✓ Always measure a fish on a flat surface.
- ✓ Never measure a crushed, broken, deformed or curved fish.

RECORDING WEIGHTS

- ✓ *Weights are recorded to the **nearest kilogram**.*
- ✓ If the weight of the species is 34.2 kg round the value down to 34 kg.
- ✓ If the weight of the species is 34.6 kg round the value up to 35 kg.
- ✓ If the decimal place is 0.5 (that is, exactly half a kilogram), it should be rounded up. This means if the weight of the species is 35.5 kg, it will be rounded up to 36 kg.
- ✓ *Weights are always associated with an IOTC code for **processing type** (state) and an IOTC code for **estimation method** (tool).*



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ANY QUESTIONS?



send us a message via Talents LMS



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