This working document serves for reviewing and clarification of the SIOFA fisheries related data standards to be collected and submitted. It is focused on the Catch and Effort data collection scheme (**CMM 2017/02 para 6**) and the Observer data collection scheme (**CMM 2017/02 para 13**).

The table below recaps all the items listed in ANNEX A of CMM 2017/2.

Some items of the original annex were concatenated or not clearly defined; those have been exploded and detailed into a proper number of rows.

Proposed change or addition are **provided in green**

Proposed removals are ~~in red strike~~

Texts in blue are comment or clarification requirement

The right columns provide the following extra information:

- Unit, format, values and notes about the item

- Item to be collected by flag states?

- Item to be submitted to the Secretariat?

- Frequency and date of submission to the Secretariat

- Proposed importance (criticality) of the item

CMM 2017/02 ANNEX A REVISION

Vessel Catch and Effort Data

1. Contracting Parties, CNCPs and PFEs shall ensure that the following data on fishing activities are collected from all fishing vessels flying their flag in the Agreement Area

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| item | Unit / format / values / notes | collected  by FC | submitted  to Secretariat | Frequency / date  Of submission | **Importance (1-10)** |
| **Vessel**  (vessel information need to be submitted to the Secretariat only if a vessel has changed or if the vessel is new in the fishery) | | | | | |
| Vessel flag State | ISO 3 alpha | YES | YES | Yearly / May 31 | **10** |
| Name of vessel |  | YES | YES | Yearly / May 31 | **2** |
| International radio call sign | if any | YES | YES | On change / May 31 | **2** |
| Vessel Registration number | in flag State | YES | YES | On change / May 31 | **2** |
| Lloyd's / IMO /IHS Fair play No | if allocated | YES | YES | On change / May 31 | **2** |
| Gross Tonnage (GT) |  | YES | YES | On change / May 31 | **6** |
| Gross register tonnage | if GT is not available | YES | YES | On change / May 31 | **6** |
| Name of person filling in the data |  | YES | YES | On change / May 31 | **1** |
| **Weight Conversion Factor** | | | | | |
| Species | FAO code (alpha 3) | YES | YES | On change / May 31 |  |
| Processing type |  | YES | YES | On change / May 31 |  |
| Conversion factor | live weight/processed weight | YES | YES | On change / May 31 |  |
| **Fishing action information** | | | | | |
| Intended target species | FAO code | YES | YES | Yearly / May 31 |  |
| Type of fishing | (C)ommercial; (R)esearch; (S)urvey | YES | YES | Yearly / May 31 |  |
| Haul/Set ID number | from F/V if available | YES | YES | Yearly / May 31 |  |
| ***For Longline, handline, traps, pots and nets only*** | | | | | |
| Set start date and time (UTC) | format YYYY-MM-DD hh:mm | YES | YES | Yearly / May 31 |  |
| Set start latitude | ~~use N S rather than + -~~ | YES | YES | Yearly / May 31 |  |
| Set start longitude |  | YES | YES | Yearly / May 31 |  |
| Set start depth (m) |  | YES | YES | Yearly / May 31 |  |
| Set end date and Time (UTC) | format YYYY-MM-DD hh:mm | YES | YES | Yearly / May 31 |  |
| Set end latitude | ~~use N S rather than + -~~ | YES | YES | Yearly / May 31 |  |
| Set end longitude |  | YES | YES | Yearly / May 31 |  |
| Set end depth (m) |  | YES | YES | Yearly / May 31 |  |
| Haul start date and time (UTC) | format YYYY-MM-DD hh:mm | YES | YES | Yearly / May 31 |  |
| Haul end data and time (UTC) | format YYYY-MM-DD hh:mm | YES | YES | Yearly / May 31 |  |
| ***For Trawl only*** | | | | | |
| Tow start date and time (UTC) | format YYYY-MM-DD hh:mm  *start is defined when the target depth is reached* | YES | YES | Yearly / May 31 |  |
| Tow start latitude | ~~use N S rather than + -~~ | YES | YES | Yearly / May 31 |  |
| Tow start longitude |  | YES | YES | Yearly / May 31 |  |
| Tow start depth | (m) | YES | YES | Yearly / May 31 |  |
| Tow end date and Time (UTC) | format YYYY-MM-DD hh:mm | YES | YES | Yearly / May 31 |  |
| Tow end latitude | ~~use N S rather than + -~~ | YES | YES | Yearly / May 31 |  |
| Tow end longitude |  | YES | YES | Yearly / May 31 |  |
| Tow end depth | (m) | YES | YES | Yearly / May 31 |  |
| **Species retained (estimated catch retained on board)** | | | | | |
| Species FAO code | FAO code | YES | YES | Yearly / May 31 |  |
| Species scientific name | Scientific name or Scientific group | YES | YES | Yearly / May 31 |  |
| Live weight retained (Kg) |  | YES | YES | Yearly / May 31 |  |
| **Species discarded** | | | | | |
| Species FAO code | FAO code + accurate shark id | YES | YES | Yearly / May 31 |  |
| Species scientific name | Scientific name or Scientific group | YES | YES | Yearly / May 31 |  |
| Live weight discarded (Kg) |  | YES | YES | Yearly / May 31 |  |
| **Incidental bycatch of marine mammals, seabirds, reptiles and other species of concern** | | | | | |
| Incidental by catches occurred | (Yes/No) | YES | YES | Yearly / May 31 |  |
| Species name | FAO code | YES | YES | Yearly / May 31 |  |
| Status | dead / injured / alive | YES | YES | Yearly / May 31 |  |
| Number |  | YES | YES | Yearly / May 31 |  |

2. Contracting Parties, CNCPs and PFEs shall ensure that the following gear-specific data on fishing activities, as applicable, are collected from all fishing vessels flying their flag in the Agreement Area.

Data Set – Gear

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| item | Unit / format / values / notes | Collected  By FC | Submitted to Secretariat | Frequency / date  Of submission | Importance (1-10) |
| **Trawl details** | | | | | |
| Mesh Size | (mm) | YES | YES | Yearly / May 31 |  |
| Trawl technique |  | YES | YES | Yearly / May 31 |  |
| Type of trawl | (S)ingle, (D)ouble or (T)riple | YES | YES | Yearly / May 31 |  |
| **Longline details** | | | | | |
| Type of longline | Spanish, Trotline, Autoline | YES | YES | Yearly / May 31 |  |
| Type of bait |  | YES | YES | Yearly / May 31 |  |
| Hook size | (mm) | YES | YES | Yearly / May 31 |  |
| Hook spacing | (m) | YES | YES | Yearly / May 31 |  |
| Hook code or make |  | YES | YES | Yearly / May 31 |  |
| Length of line | (m) | YES | YES | Yearly / May 31 |  |
| Number of hooks set |  | YES | YES | Yearly / May 31 |  |
| Number hooks per cluster | if Trotline | YES | YES | Yearly / May 31 |  |
| Number of hooks lost | attached to lost sections of line | YES | YES | Yearly / May 31 |  |
| **Trap/Pot details** | | | | | |
| Pot type |  | YES | YES | Yearly / May 31 |  |
| Type of line | Dropline or longline | YES | YES | Yearly / May 31 |  |
| Length of line | (m) | YES | YES | Yearly / May 31 |  |
| Pot spacing | (m) | YES | YES | Yearly / May 31 |  |
| Number of pots set |  | YES | YES | Yearly / May 31 |  |
| Number of pots lost |  | YES | YES | Yearly / May 31 |  |
| Type of bait |  | YES | YES | Yearly / May 31 |  |
| **Dahn/ Drop Line/ Handline details** | | | | | |
| Total number of hooks in the set |  | YES | YES | Yearly / May 31 |  |
| Number of hooks lost |  | YES | YES | Yearly / May 31 |  |
| Hook code or make |  | YES | YES | Yearly / May 31 |  |
| Type of leader used |  | YES | YES | Yearly / May 31 |  |
| Total number of line lifts in the set |  | YES | YES | Yearly / May 31 |  |
| Type of bait |  | YES | YES | Yearly / May 31 |  |

~~Voluntary~~ Observer Data

1. Contracting Parties, CNCPs and PFEs shall ~~endeavour~~, for all observed trips, to collect and provide to the Secretariat the data contained in this Annex in accordance with the format set out below.

2. Contracting Parties, CNCPs and PFEs shall, where appropriate, ensure that observers are briefed and provided with documented length-frequency and biological sampling protocols and the specific priorities for the trip for the sampling activities documented below.

3. Contracting Parties, CNCPs and PFEs shall endeavour to collect tissue, otoliths and/or stomach samples in accordance with any research programs developed by the Scientific Committee.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| item | unit / format / values / notes | collected  by FC | submitted  to SIOFA | Frequency / date  Of submission | Importance (1-10) |
| Trip Details | | | | | |
| Trip Number | ? | ? |  |  |  |
| Cruise start dates | YYYY-MM-DD | YES |  |  |  |
| Cruise end date | YYYY-MM-DD | YES |  |  |  |
| Current vessel flag State | (ISO 3-apha) | YES |  |  |  |
| Name of vessel |  | YES |  |  |  |
| **Observer details** | | | | | |
| Observer name |  | YES |  |  |  |
| Observer nationality | (ISO 3-apha) | YES |  |  |  |
| Employing organisation |  | YES |  |  |  |
| Contact name in organisation |  | YES |  |  |  |
| **Contact details in organisation** | **(Address/email/fax)** | YES |  |  |  |
| Boarding location | Port UNLOCODE | YES |  |  |  |
| **Boarding longitude** | **If location non relevant (Dec. degree)** | YES |  |  |  |
| **Boarding latitude** | **If location non relevant (Dec. degree)** | YES |  |  |  |
| Boarding Date | YYYY-MM-DD | YES |  |  |  |
| Disembarkation location | Port UNLOCODE or longitude/latitude | YES |  |  |  |
| **Disembarkation longitude** | **If location non relevant (Dec. degree)** | YES |  |  |  |
| **Disembarkation latitude** | **If location non relevant (Dec. degree)** | YES |  |  |  |
| Disembarkation date | YYYY-MM-DD | YES |  |  |  |
| ~~Time Zone (UTC +-)~~ | Is it relevant if no time provided? | YES |  |  |  |
| **Biological sampling** | | | | | |
| Species | FAO code + accurate shark id | YES |  |  |  |
| Length (~~mm or~~ cm) |  | YES |  |  |  |
| Weight (kg) |  | YES |  |  |  |
| Sex | (male, female, immature, unsexed) | YES |  |  |  |
| Maturity stage | (and criteria/schedule used) | YES |  |  |  |
| Gonad weight | (g) | YES |  |  |  |
| Otoliths | not enough informative | YES |  |  |  |
| **Incidental bycatch of seabirds, mammals turtles or 'other species of concern'** | | | | | |
| Species | FAO code | YES |  |  |  |
| Estimated species abundance around fishing vessel | Value range or code to be provided | YES |  |  |  |
| Species interactions with fishing gear | (Y/N) | YES |  |  |  |
| Count of the number of each species caught per tow or set |  | YES |  |  |  |
| Fate of bycatch animal(s) | (retained or released/discarded) | YES |  |  |  |
| If released, life status upon release | (vigorous, alive, lethargic, injured, dead) | YES |  |  |  |
| If injured, what was the cause of injury? |  | YES |  |  |  |
| If dead, information or samples taken for onshore identification | Free text entry | YES |  |  |  |
| Sex of each individual |  | YES |  |  |  |
| Description of circumstances or actions that may have contributed to the bycatch event | Free text entry | YES |  |  |  |
| **Tag Recoveries** | | | | | |
| Name of observer |  | YES |  |  |  |
| Name of vessel |  | YES |  |  |  |
| International radio call sign (if any) |  | YES |  |  |  |
| Vessel flag State | (ISO 3-apha) | YES |  |  |  |
| ***Data by tag*** | | | | | |
| Species |  | YES |  |  |  |
| Tag colour and type | (spaghetti, archival) | YES |  |  |  |
| Tag numbers |  | YES |  |  |  |
| Date / time of capture | YYYY-MM-DD hh:mm (UTC) | YES |  |  |  |
| Latitude of capture | Decimal degree | YES |  |  |  |
| Longitude of capture | Decimal degree | YES |  |  |  |
| Animal length / size | (cm ~~or mm~~) | YES |  |  |  |
| Sex | (F=female, M=male, I=indeterminate, D=not examined) | YES |  |  |  |
| Whether the tags were found during a period of fishing that was being observed | (Y/N) | YES |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trawl only information** | | | | | |
| Net ID |  | YES |  |  |  |
| Net type | (ISSFCV) | YES |  |  |  |
| Headrope length | (m) | YES |  |  |  |
| Groundrope length | (m) | YES |  |  |  |
| Bobbin diameter | (cm) | YES |  |  |  |
| Otterboard to wing length | (m) | YES |  |  |  |
| Horizontal Opening | (m) | YES |  |  |  |
| Vertical Opening | (m) | YES |  |  |  |
| Codend mesh details | Mesh size (cm), codend circumference (cm), Orientation Mesh type (diamond, square, etc.) | YES |  |  |  |
| Otterboard details | Type, weight (kg) | YES |  |  |  |
| Net design | Net design description including make, model etc. | YES |  |  |  |
| ***Trawl haul details*** | | | | | |
| Trawl Number |  | YES |  |  |  |
| Gear | ? | YES |  |  |  |
| Trawl type | Research or Commercial (R/C) | YES |  |  |  |
| Observed | (Yes/No) | YES |  |  |  |
| Target Species | (FAO species code) | YES |  |  |  |
| ~~Date Start (YYYY.MON.DD)~~ |  |  |  |  |  |
| ~~Date Finish (YYYY.MON.DD)~~ |  |  |  |  |  |
| ~~Time net deployed (hh:mm)~~ |  |  |  |  |  |
| ~~Time net retrieved (hh:mm)~~ |  |  |  |  |  |
|  |  |  |  |  |  |
| ***Start and End Fishing*** | | | | | |
| For Trawl fishing  - for bottom trawl "start" is defined as when the groundrope is on the bottom, "end" is when the tow ends.  - for midwater trawl "start" is defined as when the fishing gear is at target fishing depth, "end" is when the tow ends. | | | | | |
|  |  |  |  |  |  |
| Start Date | (YYYY-MM-DD) | YES |  |  |  |
| Start Time ~~net deployed~~ | (hh:mm) | YES |  |  |  |
| Start latitude | Decimal degree | YES |  |  |  |
| Start longitude | Decimal degree | YES |  |  |  |
| Start bottom depth | (m) | YES |  |  |  |
| Start trawl depth | (m) | YES |  |  |  |
| End Date | (YYYY-MM-DD) | YES |  |  |  |
| End Time ~~net retrieved~~ | (hh:mm) | YES |  |  |  |
| End Latitude | Decimal degree | YES |  |  |  |
| End Longitude | Decimal degree | YES |  |  |  |
| End bottom depth | (m) | YES |  |  |  |
| End Trawl Depth | (m) | YES |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| ***Other*** | | | | | |
| Offal discharged during shooting | (Y/N) | YES |  |  |  |
| Offal discharged during hauling | (Y/N) | YES |  |  |  |
| Trawl speed | (knots) | YES |  |  |  |
| Horizontal opening | (m) | YES |  |  |  |
| Total catch | (kg) | YES |  |  |  |
| ***Observed catch composition*** | | | | | |
| Was the haul observed for fish/invertebrate by-catch | (Y/N) | YES |  |  |  |
| Total weight of all sub-samples for this shot | (kg) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Species*** | | | | | |
| FAO code |  | YES |  |  |  |
| Scientific name |  | YES |  |  |  |
| Total retained catch weight | (kg) | YES |  |  |  |
| Total discarded catch weight | (kg) | YES |  |  |  |
| ***Bycatch mitigation measures employed*** | | | | | |
| Were bird scaring (tori) lines in use? | (Yes/No) | YES |  |  |  |
| Were bird bafflers in use? | (Yes/No) | YES |  |  |  |
| ***Trawl warp strike*** | | | | | |
| (to be monitored for 15 minutes immediately after the net has been deployed) | | | | | |
| Trawl number |  | YES |  |  |  |
| Name of observer |  | YES |  |  |  |
| Start observation time | (hh:mm) | YES |  |  |  |
| End observation time | (hh:mm) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Number of heavy warp strikes*** | | | | | |
| record for Albatross, Giant Petrels, White chinned petrels, Other petrels | | | | | |
| Air |  | YES |  |  |  |
| Water |  | YES |  |  |  |
| Sinker |  | YES |  |  |  |
| ***Seabird abundance observation*** | | | | | |
| Seabirds present in observation area | (y/n) | YES |  |  |  |
| ~~Estimated numbers of abundance~~ | ~~(by species)~~ |  |  |  |  |
| **Species** |  | YES |  |  |  |
| **Estimated abundance** | *Unit to be defined* | YES |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Longline fishing activities only** | | | | | |
| ***Longline Description*** | | | | | |
| Longline Type | (FFSSCV) | YES |  |  |  |
| Gear usage start date | (YYYY-MM-DD) | YES |  |  |  |
| Gear usage end date | (YYYY-MM-DD) | YES |  |  |  |
| Target Species | (FAO species code) | YES |  |  |  |
| ***Main line*** | | | | | |
| Material |  | YES |  |  |  |
| Diameter | (mm) | YES |  |  |  |
| Main Line Integrated Wt | (g/m) | YES |  |  |  |
| ***Branch lines*** | | | | | |
| Branch Lines Length | (M) | YES |  |  |  |
| Branch Lines Spacing | (m) | YES |  |  |  |
| ***Hooks*** | | | | | |
| Hook Type |  | YES |  |  |  |
| Hook Make |  | YES |  |  |  |
| Hook Total length | (mm) | YES |  |  |  |
| Hook Shank | (mm) | YES |  |  |  |
| Hook Gape | (mm) | YES |  |  |  |
| Hook Throat | (mm) | YES |  |  |  |
| Hook Front length | (mm) | YES |  |  |  |
| Hook Usual setting position Line off bottom | (m) | YES |  |  |  |
| Hooks off bottom | (m) | YES |  |  |  |
| Method of baiting | (manual/automatic) | YES |  |  |  |
| Automatic baiting equipment | (make and model) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Hook sinkers*** | | | | | |
| Size | (g) | YES |  |  |  |
| Position from hook | (mm) | YES |  |  |  |
| Offal dumping | (port, starboard, stern) | YES |  |  |  |
| Longline setting position | position (port, starboard, stern) | YES |  |  |  |
|  |  |  |  |  |  |
| Offal dumping during hauling | (never, occasionally, always) | YES |  |  |  |
| Propeller rotation direction | (clockwise/anti-clockwise) | YES |  |  |  |
| Detail the weight and distance between the line weights for the longline system used |  | YES |  |  |  |
| Single (Auto) Line (kg:m) |  | YES |  |  |  |
| Double (Spanish) Line (kg:m) |  | YES |  |  |  |
| Trotline (vertical droppers/trots attached to a mainline) (kg:m) |  | YES |  |  |  |
| ***General Streamer Line Description*** | | | | | |
| Vessel equipped with a streamer line | (y/n) | YES |  |  |  |
| Number of streamer lines regularly set) |  | YES |  |  |  |
| Streamer line position | (port, starboard, stern) | YES |  |  |  |
| Streamer line length | (m) | YES |  |  |  |
| Streamer length min/max | (m) | YES |  |  |  |
| Attached height above water | (m) | YES |  |  |  |
| Distance between streamers | (m) | YES |  |  |  |
| Number of streamers Streamer design | (single or paired) | YES |  |  |  |
| Aerial extent of line | (m) | YES |  |  |  |
| Method used to assess aerial extent |  | YES |  |  |  |
| Streamer material |  | YES |  |  |  |
| Streamer line diameter | (mm) | YES |  |  |  |
| Streamer colours |  | YES |  |  |  |
| Streamer line over bait entry position? | (y/n/u) | YES |  |  |  |
| Distance from stern to bait entry point | (m) | YES |  |  |  |
| Towed object | (Y/N) | YES |  |  |  |
| Horizontal distance from bait entry point to streamer line | (m) | YES |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| ***Longline set information*** | | | | | |
| Set Number | (as referenced in catch and effort log) | YES |  |  |  |
| Set Type | Research or Commercial (R/C) | YES |  |  |  |
| Longline Type Code | (FSSCV) | YES |  |  |  |
| Trotline cetacean exclusion device used | (Y/N) | YES |  |  |  |
| Date of observation | (YYYY-MM-DD) | YES |  |  |  |
| Vessel setting speed | (knots) | YES |  |  |  |
| Number of sets unobserved since last set |  | YES |  |  |  |
| **Total length of longline set** | **(km)** | YES |  |  |  |
| **Total number of hooks for the set** |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***Start setting details*** | | | | | |
| Date | (YYYY-MM-DD) | YES |  |  |  |
| Time | (hh:mm) | YES |  |  |  |
| Latitude | Dec. degree | YES |  |  |  |
| Longitude | Dec. degree | YES |  |  |  |
| Bottom Depth | (m) | YES |  |  |  |
| ~~Total length of longline set (km)~~ |  |  |  |  |  |
| ~~Total number of hooks for the set~~ |  |  |  |  |  |
| ***End setting details*** | | | | | |
| Date | (YYYY-MM-DD) | YES |  |  |  |
| Time | (hh:mm) | YES |  |  |  |
| Latitude | Dec. degree | YES |  |  |  |
| Longitude | Dec. degree | YES |  |  |  |
| Bottom Depth | (m) | YES |  |  |  |
| ***For each Observation*** | | | | | |
| Observation start date | (YYYY.MON.DD) | YES |  |  |  |
| Observation start time | (hh:mm) | YES |  |  |  |
| Observation end date | (YYYY.MON.DD) | YES |  |  |  |
| Observation end time | (hh:mm) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Details of longline setting*** | | | | | |
| Main line length | (m) | YES |  |  |  |
| Number of hooks set |  | YES |  |  |  |
| Number of Baskets/Magazines Set |  | YES |  |  |  |
| Number of hooks per Basket/Magazine |  | YES |  |  |  |
| Percentage hooks baited | % | YES |  |  |  |
| Distance between branches | (m) | YES |  |  |  |
| Distance of hooks off bottom | (m) | YES |  |  |  |
| Bait species | (FAO species code) | YES |  |  |  |
| Deck lights during setting | (On, Off) | YES |  |  |  |
| Streamer lines used | (Yes, No) | YES |  |  |  |
| Number of streamer lines used Offal dumping during  setting | (Yes, No) | YES |  |  |  |
| Bait entry position | (Port, Starboard, Stern) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Daily hauling observations*** | | | | | |
| Set number |  | YES |  |  |  |
| Date of observation | (YYYY-MM-DD) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Hauling Information*** | | | | | |
| Number of hooks observed for seabird and fish by-catch | (tally period) | YES |  |  |  |
| Offal dumped during hauling | (Yes / No) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Gear lost*** | | | | | |
| Number of sections lost |  | YES |  |  |  |
| Number of hooks lost that were attached to lost sections of the longline |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***Observed catch composition*** | | | | | |
| Was Haul observed for fish/invertebrate by-catch | (Y/N) | YES |  |  |  |
| Estimate percentage of the haul observed for by-catch | (%) | YES |  |  |  |
| ***Species*** | | | | | |
| Species code | (FAO species code) | YES |  |  |  |
| Total retained catch weight | (kg) | YES |  |  |  |
| Total discarded catch weight | (kg) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Species Retained*** | | | | | |
| Observed number retained |  | YES |  |  |  |
| Observed number retained with tags |  | YES |  |  |  |
| ***Species Discarded*** | | | | | |
| Observed number discarded |  | YES |  |  |  |
| Observed number discarded dead |  | YES |  |  |  |
| Observed number discarded alive |  | YES |  |  |  |
| ***Species Lost*** | | | | | |
| Observed number lost/dropped off at surface |  | YES |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **For Trapping/Potting Fishing Activities** | | | | | |
|  |  |  |  |  |  |
| pot type | (with drawing) | YES |  |  |  |
| mesh size | (mm) | YES |  |  |  |
| Funnel position |  | YES |  |  |  |
| Funnel orientation |  | YES |  |  |  |
| Funnel aperture (cm) |  | YES |  |  |  |
| Funnel number of chambers |  | YES |  |  |  |
| Escape port present | (y/n) | YES |  |  |  |
| dimensions of escape port | (cm) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Processing Details and Conversion Factors (CF)*** | | | | | |
| Haul Number |  | YES |  |  |  |
| Name of observer |  | YES |  |  |  |
| Species Code | (FAO species code) | YES |  |  |  |
| Processing Code |  | YES |  |  |  |
| Length Range | (Min Max) | YES |  |  |  |
| Number of individuals |  | YES |  |  |  |
| Live Weight | (kg) | YES |  |  |  |
| Processed Weight | (kg) | YES |  |  |  |
| Grade |  | YES |  |  |  |
| Conversion Factor |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***Set and haul details*** | | | | | |
| Set Number |  | YES |  |  |  |
| Date of observation | YYYY-MM-DD | YES |  |  |  |
| Set Type | Research or Commercial (R/C) | YES |  |  |  |
| Target species | (FAO species code) | YES |  |  |  |
| Offal dumped during setting | (Yes / No) | YES |  |  |  |
| Offal dumped during hauling | (Yes / No) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Setting details*** | | | | | |
| Start date | (YYYY-MM-DD) | YES |  |  |  |
| Start time | (hh:mm) | YES |  |  |  |
| Start Longitude | Dec. degrees | YES |  |  |  |
| Start Latitude | Dec. degrees | YES |  |  |  |
| Start bottom depth | (m) | YES |  |  |  |
| End date | (YYYY-MM-DD) | YES |  |  |  |
| End time | (hh:mm) | YES |  |  |  |
| End Longitude | Dec. degrees | YES |  |  |  |
| End Latitude | Dec. degrees | YES |  |  |  |
| End bottom depth | (m) | YES |  |  |  |
| number of pots set |  | YES |  |  |  |
| number of pots observed |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***Hauling details*** | | | | | |
| Start date | (YYYY-MM-DD) | YES |  |  |  |
| Start time | (hh:mm) | YES |  |  |  |
| ~~Start Longitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| ~~Start Latitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| End date | (YYYY-MM-DD) | YES |  |  |  |
| End time | (hh:mm) | YES |  |  |  |
| ~~End Longitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| ~~End Latitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| number of pots hauled |  | YES |  |  |  |
| number of pots observed |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***Gear Details*** | | | | | |
| Length of line | (m) | YES |  |  |  |
| Type of line | (m) | YES |  |  |  |
| Pot spacing | (m) | YES |  |  |  |
| Bait type |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***Observed interactions with birds or marine mammals*** | | | | | |
| Species Code | (FAO species code) | YES |  |  |  |
| At Setting | | | | | |
| Abundance | (500m radius) | YES |  |  |  |
| Gear interaction | (y/n) | YES |  |  |  |
| At Hauling | | | | | |
| Abundance | (500m radius) | YES |  |  |  |
| Gear interaction | (y/n) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Observed catch composition*** | | | | | |
| Name of observer |  | YES |  |  |  |
| Was Haul observed for fish/invertebrate by-catch | (Y/N) | YES |  |  |  |
| Estimate percentage of the haul observed for by-catch | (%) | YES |  |  |  |
| Number of pots observed for by-catch |  | YES |  |  |  |
|  |  |  |  |  |  |
| Species Code | (FAO species code) | YES |  |  |  |
| total retained catch weight | (kg) | YES |  |  |  |
| total discarded catch weight | (kg) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Species Retained*** | | | | | |
| observed number retained |  | YES |  |  |  |
| observed number retained with tags |  | YES |  |  |  |
| ***Species Discarded*** | | | | | |
| Number discarded |  | YES |  |  |  |
| Number discarded dead |  | YES |  |  |  |
| Number discarded alive |  | YES |  |  |  |
| ***Species Lost*** | | | | | |
| observed number lost/dropped off at surface |  | YES |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **For Dahn/Drop lining/Handline fishing activity ONLY** | | | | | |
| ***Dahn/Dropline Description*** | | | | | |
| Line Type | (FFSSCV) | YES |  |  |  |
| Gear usage start date | (YYYY-MM-DD) | YES |  |  |  |
| Gear usage end date | (YYYY-MM-DD) | YES |  |  |  |
| Target Species | (FAO species code) | YES |  |  |  |
| ***Main Line*** | | | | | |
| Material |  |  |  |  |  |
| Diameter | (mm) | YES |  |  |  |
| Integrated Wt | (g/m) | YES |  |  |  |
| ***Hooks*** | | | | | |
| Type |  |  |  |  |  |
| Make |  |  |  |  |  |
| Total length | (mm) | YES |  |  |  |
| Shank | (mm) | YES |  |  |  |
| Gape | (mm) | YES |  |  |  |
| Throat | (mm) | YES |  |  |  |
| Front length | (mm) | YES |  |  |  |
| Usual setting position Line off bottom | (m) | YES |  |  |  |
| Hooks off bottom | (m) | YES |  |  |  |
| Method of baiting | (manual/automatic) | YES |  |  |  |
| Automatic baiting equipment | (make and model) | YES |  |  |  |
| ***Offal*** | | | | | |
| Offal dumping position | (port, starboard, stern) | YES |  |  |  |
| offal dumping during hauling | (never, occasionally, always) | YES |  |  |  |
| Propeller rotation direction | (clockwise/anti-clockwise) | YES |  |  |  |
|  |  |  |  |  |  |
| ***General Streamer Line Description*** | | | | | |
| Vessel equipped with a streamer line | (y/n) | YES |  |  |  |
| Number of streamer lines regularly set |  | YES |  |  |  |
| Streamer line position | (port, starboard, stern) | YES |  |  |  |
| Streamer line length | (m) | YES |  |  |  |
| Streamer length min/max | (m) | YES |  |  |  |
| Attached height above water | (m) | YES |  |  |  |
| Distance between streamers | (m) | YES |  |  |  |
| Number of streamers Streamer design | (single or paired) | YES |  |  |  |
| Aerial extent of line | (m) | YES |  |  |  |
| Method used to assess aerial extent |  | YES |  |  |  |
| Streamer material |  | YES |  |  |  |
| Streamer line diameter | (mm) | YES |  |  |  |
| Streamer colours |  | YES |  |  |  |
| Streamer line over bait entry position? | (y/n/u) | YES |  |  |  |
| Distance from stern to bait entry point | (m) | YES |  |  |  |
| Horizontal distance from bait entry point to streamer line | (m) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Details of Dahn/Dropline/Handline Setting*** | | | | | |
| Main line length | (m) | YES |  |  |  |
| Number of hooks set |  | YES |  |  |  |
| Percentage hooks baited |  | YES |  |  |  |
| Distance between branches/snoods | (m) | YES |  |  |  |
| Distance of hooks off bottom | (m) | YES |  |  |  |
| Bait species |  | YES |  |  |  |
| Bait size |  | YES |  |  |  |
| Bait proportion | ? |  |  |  |  |
| Deck lights during setting | (On, Off) | YES |  |  |  |
| Streamer lines used | (Yes, No) | YES |  |  |  |
| Number of streamer lines used |  | YES |  |  |  |
| Offal dumping during setting | (Yes, No) | YES |  |  |  |
| Daylight period | **(Yes, No)** | YES |  |  |  |
| Moonlight | **(Yes, No)** | YES |  |  |  |
| Bait entry position | (Port, Starboard, Stern) | YES |  |  |  |
| Vessel setting speed | (knots) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Setting details*** | | | | | |
| Start date | (YYYY-MM-DD) | YES |  |  |  |
| Start time | (hh:mm) | YES |  |  |  |
| Start Longitude | Dec. degrees | YES |  |  |  |
| Start Latitude | Dec. degrees | YES |  |  |  |
| Start bottom depth | (m) | YES |  |  |  |
| End date | (YYYY-MM-DD) | YES |  |  |  |
| End time | (hh:mm) | YES |  |  |  |
| End Longitude | Dec. degrees | YES |  |  |  |
| End Latitude | Dec. degrees | YES |  |  |  |
| End bottom depth | (m) | YES |  |  |  |
| ***Hauling details*** | | | | | |
| Start date | (YYYY-MM-DD) | YES |  |  |  |
| Start time | (hh:mm) | YES |  |  |  |
| ~~Start Longitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| ~~Start Latitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| ~~Start bottom depth~~ | ~~(m)~~ |  |  |  |  |
| End date | (YYYY-MM-DD) | YES |  |  |  |
| End time | (hh:mm) | YES |  |  |  |
| ~~End Longitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| ~~End Latitude~~ | ~~Dec. degrees~~ |  |  |  |  |
| ~~End bottom depth~~ | ~~(m)~~ |  |  |  |  |
|  |  |  |  |  |  |
| ***Gear lost*** | | | | | |
| Number of sections lost |  | YES |  |  |  |
| Number of hooks lost that were attached to lost sections of the dahn/dropline |  | YES |  |  |  |
| Number of other hooks lost | (excluding hooks attached to lost sections) | YES |  |  |  |
|  |  |  |  |  |  |
| ***Observed catch composition*** | | | | | |
| Observer ID |  | YES |  |  |  |
| Was Haul observed for fish/invertebrate by-catch | (Y/N) | YES |  |  |  |
| Estimate percentage of the haul observed for by-catch | (%) | YES |  |  |  |
| ***Species (data shall be collected for each observed species)*** | | | | | |
| Species code | (FAO species code) | YES |  |  |  |
| Total retained catch weight | (kg) | YES |  |  |  |
| Total discarded catch weight | (kg) | YES |  |  |  |
| Observed number retained |  | YES |  |  |  |
| Observed number retained with tags |  | YES |  |  |  |
| Observed number discarded |  | YES |  |  |  |
| Observed number discarded dead |  | YES |  |  |  |
| Observed number discarded alive |  | YES |  |  |  |
| Observed number lost/dropped off at surface |  | YES |  |  |  |
|  |  |  |  |  |  |
| **Interactions with Vulnerable Marine Ecosystems (VME)** | | | | | |
| ***General information*** | | | | | |
| Name of observer |  | YES |  |  |  |
| Name of vessel |  | YES |  |  |  |
| Date | YYYY-MM-DD | YES |  |  |  |
| Set number |  | YES |  |  |  |
|  |  |  |  |  |  |
| ***VME location*** | | | | | |
| Start latitude of all gear deployments and/or observations | Dec. degrees  Possibly redundant if set number provided | YES |  |  |  |
| Start longitude of all gear deployments and/or observations | Dec. degrees  Possibly redundant if set number provided | YES |  |  |  |
|  |  |  |  |  |  |
| End latitude of all gear deployments | Dec. degrees  Possibly redundant if set number provided | YES |  |  |  |
| End longitude of all gear deployments | Dec. degrees  Possibly redundant if set number provided | YES |  |  |  |
| Depth(s) fished (m) | Possibly redundant if set number provided | YES |  |  |  |
| Fishing Gear (Indicate fishing gears used at each location) | Possibly redundant if set number provided | YES |  |  |  |
|  |  |  |  |  |  |
| ***VME Species Taxa*** | | | | | |
| a) Species | Identified taxonomically as far as possible, or accompanied by a photograph where identification is difficult. | YES |  |  |  |
| b) An estimate of the quantity of each listed benthic species caught in the tow. | weight (kg) or volume (m3) | YES |  |  |  |
| c) An overall estimate of the total quantity of all invertebrate benthic species caught in the tow. | weight (kg) or volume (m3) | YES |  |  |  |
| d) Sample collected | Where possible, and particularly for new or scarce benthic species which do not appear in ID guides, whole samples should be collected and suitably preserved for identification on shore. | YES |  |  |  |
| e) Collection of representative biological samples from the entire VME catch | Biological samples shall be collected and frozen when requested by the scientific authority in a Contracting Party. For some coral species that are under the CITES list **only** photographs should be taken. | YES |  |  |  |
|  |  |  |  |  |  |

Specifications for the Exchange of Data

1. Coordinated Universal Time (UTC) shall be used to describe times, using the following submission format:

~~YYYY-MON-DDThh:mm:ss~~

**YYYY-MM-DDThh:mm:ss**

where

a. YYYY - represents a 4-digit year e.g. "2007"

~~b. MON - represents a 3-character month abbreviation e.g."APR"~~

**b. MM - represents a 2-digit month number e.g. “04” for April**

c. DD - represents a 2-digit day e.g. "05"

d. T - is a space separator

e. hh - represents hours based on the 24hr clock (length = 2 digits) e.g. "16"

f. mm - represents minutes (length = 2 digits) e.g. "05"

g. ss - represent seconds (length = 2 digits) e.g. "00"

Example

**~~2003-APR-17T13:10:00~~** ~~= 1.10pm (1310h), 17 April 2003~~

**2003-04-17T13:10:00 = 1.10pm (1310h), 17 April 2003**

2. Decimal degrees (WGS84) are to be used to describe locations.

3. The following standard shall be used for the submission of latitudinal/ longitudinal information:

a. Northern latitudes and eastern longitudes should be indicated by the use of ~~[unsigned]~~ positive decimal degree values

b. Southern latitudes and western longitudes should be indicated by the use of negative decimal degree values

Latitude - Degrees: Represented as positive ~~(unsigned)~~ or negative numbers from 0 to 89.99

E.g. If value = 83.2, this means 83.2° N

E.g. if value = -83.2, this means 83.2° S

Longitude - Degrees: Represented as positive ~~(unsigned)~~ or negative numbers from 0 to 179.99

E.g. If value = 83.2, this means 83.2° E

E.g. if value = -83.2, this means 83.2° W