**Western and Central Pacific Fisheries Commission (WCPFC)**

**E-REPORTING STANDARD DATA FIELDS**

**OPERATIONAL OBSERVER DATA**

*10th June 2015*

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| *CURRENT VERSION:* | *2.00* |
| *DATE:* | *22nd February 2016* |
| *STATUS:* | *Draft – yet to be approved* |

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| --- | --- | --- | --- |
| *Version Number* | *Date Approved* | *Approved by* | *Brief Description* |
| *1.00 (Draft)* | *July 2015* | *WCPFC ERandEM meeting (Nadi, Fiji)* | *First version draft accepted by the meeting* |
| *2.00* | *TBA* |  | * *Recommendations for update from WCPFC12*   + *New codes for species interaction in longline (Table A32)*   + *Several bird mitigation fields collected at the SET LEVEL*   + *Offal management field collected at SET level*   + *Enhanced Shark line information collected at SET level* * *Add fields for date-time and position for each catch event and each float retrieval which are automatically generated from EM systems* * *…* * *…* |
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# INTRODUCTION

These tables set out the proposed standards for the provision of operational OBSERVER data fields collected in the WCPFC tropical purse seine and the longline fisheries through E-Reporting. These tables provide the minimum requirements for data entities, data formats and data validation to be established for data submitted to the national and regional fisheries authorities from E-Reporting systems. The data fields contained herein are based on information collected under the current regional standard data collection forms. This document acknowledges that national fisheries authorities require certain data fields that are not mandatory WCPFC Regional Observer Programme (ROP) data fields (for example, for anticipated Catch Documentation System – CDS – requirements), so a column in these tables identifies whether the data field is a mandatory WCFPC data field[[1]](#footnote-1) or not.

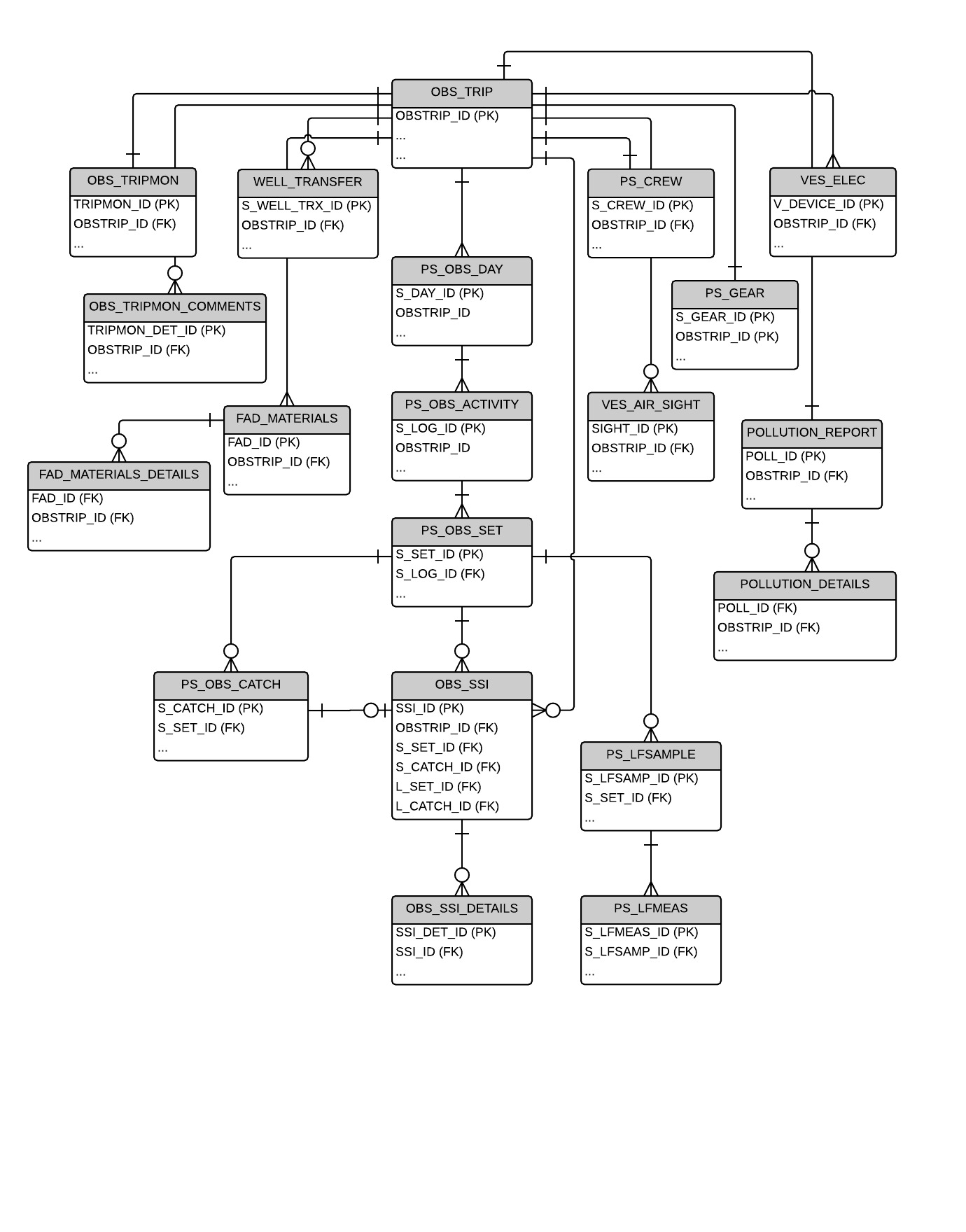
These E-Reporting data field standards are consistent with, and should be considered in conjunction with more detailed instructions[[2]](#footnote-2) on how to collect observer data provided by SPC.

These tables are intended for, *inter alia*, E-Reporting service providers who have been contracted to provide electronic systems to record OBSERVER data collected on-board purse seine vessels.

# PURSE SEINE OBSERVER E-REPORTING STANDARDS

## DATA MODEL DIAGRAM

The following basic data model diagram outlines the structure of the entities and their relationships for purse seine operational OBSERVER data collected by E-Reporting systems and submitted to national and regional fisheries authorities. The tables that follow provide more information on the mechanisms of the links (relationships) between the entities.

****

## TRIP-LEVEL DATA

| **OBS\_TRIP**  CCMs shall notify the Secretariat the definition of “the start of an observer trip” used in its program until determination of the Commission’s definition of the term. | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[3]](#footnote-3)\***  **(Field #)** |
| OBSERVER TRIP NUMBER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y  (157) |
| **OBSERVER INFORMAION** | | | | | |
| OBS PROVIDER/PROGRAMME | OBSERVER SERVICE PROVIDERS identification– National or sub-regional observer programmes  For national programmes, this is the COUNTRY\_CODE + ‘OB’ for example, ‘PGOB’ – for the PNG national observer programme.  For Sub-regional programmes, the following codes are used.  ‘TTOB’ – US Multilateral Treaty Observer programme  ‘FAOB’ – FSM Arrangement Observer Programme | Char (4) | Observer programme code must be must valid country.    Refer to valid ISO two-letter Country Codes - ISO 3166  For example, refer to http://en.wikipedia.org/wiki/ISO\_3166-1 | <obs\_prg > | Y  (15,158) |
| staff\_code | Observer field staff NAME CODE. This will be unique and link to information kept at the regional level including Observer Name, Nationality of observer, Observer provider. | VarChar (5) | Staff code must exist in the regional Observer (FIELD\_STAFF) Name Table.  The unique 5-letter staff codes are generated and maintained by SPC/FFA. | <staff\_code> | N |
| OBS\_NAME |  |  | Do NOT need to be provided if staff code was provided. |  | Y  (13) |
| OBS\_NATIONARITY | Country where the observers passport is issued |  | Do NOT need to be provided if staff code was provided.  Refer to valid ISO two-letter Country Codes - ISO 3166 |  | Y  (14) |
| tripno | Unique TRIPNO for each observer in a given year (Regional Standard)  Use the last two digits of the trip year followed by a dash and increment number for each trip in a year FOR THAT OBSERVER. YY-XX, for example, ‘14-01’ would represent the first trip for an observer in the calendar year 2014 | Char (5) | Must adhere to the regional standard | <tripno> | N |
| tripno\_internal | TRIPNO as allocated and used by the respective Observer service provider. (If this system is different from the regional standard (e.g. the US PS MLT observer programme trip number uses the format ‘24LP/xxx’ ) | VarChar (15) |  | <tripno\_INT> | N |
| DATE, TIME and LOCATION OF EMBARKATION | Embarkation DATE/TIME/LOCATION for the observer trip (Observer’s departure)  Vessel depart date/time will be obtained from other sources of data (e.g. VMS Data) | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Use UTC DATE for the departure date. | <EMB\_date> | Y  (16) |
| DATE, TIME and LOCATION OF DISEMBARKATION | Disembarkation DATE/TIME/LOCATION for the observer trip  (from the observer’s point of view)  Vessel return date/time will be obtained from other sources of data (e.g. VMS Data) | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Use UTC DATE for the return date. DD/MM/YY | <DISEMB\_date> | Y  (17) |
| **VESSEL IDENTIFICATION** | | | | | |
| gear\_code | Type of the vessel: Link to ref\_gears table | Char (1) | Must be a valid GEAR: ‘L’ – Longline; ‘S’ – Purse seine; ‘P’ – Pole-and-line | <gear\_code> | Y  (161) |
| FISHING PERMIT/LICENSE NUMBERS | PROVIDE License/Permit number that the vessel holds for the period of the TRIP. | CHAR(40)  UPPER CASE | Where possible, include validation to ensure the Permit format relevant to the agreement (national or sub-regional) complies to the required format. | <License\_NO> | N |
| VESSEL NAME | PROVIDE the VESSEL attributes which should be consistent with the attributes stored in the WCPFC and FFA Regional Vessel Registers | CHAR(30)  UPPER CASE | Must be consistent with the WCPFC and FFA Vessel Registers | <VesselName> | Y  (1, 159) |
| COUNTRY OF VESSEL REGISTRATION | CHAR(2)  ISO 3166-1 alpha-2 two-letter country code  UPPER CASE | ISO 3166-1 alpha-2 two-letter country code  Must be consistent with the WCPFC and FFA Vessel Registers  Country of registration is distinct from the chartering nation, where relevant | <CountryReg> | Y  (2) |
| VESSEL REGISTRATION NUMBER | CHAR(20)  UPPER CASE | Must be consistent with the WCPFC and FFA Vessel Registers | <RegNo> | Y  (2, 163) |
| FFA VESSEL REGISTER NUMBER | INTEGER(5) | Must be consistent with the FFA Vessel Register | <FFAVID> | N |
| WCPFC RFV VID | INTEGER(10) | Must be consistent with the WCPFC RFV | <VID> | N |
| UNIVERSAL VESSEL IDENTIFIER (UVI) | INTEGER(10) | Must be consistent with the WCPFC and FFA Vessel Registers | <IMO\_UVI> | N |
| INTERNATIONAL RADIO CALLSIGN | CHAR(10)  UPPER CASE | Must be consistent with the WCPFC and FFA Vessel Registers | <IRCS> | Y  (3, 160, 164) |
| versn\_id | Data standards version | Int |  | <versn\_id> | N |
| OWNER/COMPANY | PROVIDE vessel owner/company |  |  | <VESSEL\_OWNER> | Y  (4) |
| HULL MARKINGS | Hull markings consistent with CMM2004-03 |  |  | <HULL\_MARK> | Y  (5) |
| WIN MARKINGS | Win markings consistent with CMM2004-03 |  |  | <WIN\_MARK> | Y  (6) |
| WIN FORMAT MARKINGS | Win format for markings consistent with CMM2004-03 |  |  | <WIN\_FORM\_MARK> | Y  (7) |
| IMO/LR | PROVIDE IMO or LR numbers |  | Fishing vessel at least 100GT or 100GRT fishing in the Convention Area beyond the area of national jurisdiction must have IMO or LR numbers. |  | Y  (8) |
| **VESSEL TRIP INFORMATION** | | | | | |
| DATE and TIME of Departure from PORT |  | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <DATE\_DEP> | Y  (9) |
| PORT OF DEPARTURE | PROVIDE the Port of Departure | [REFER TO APPENDIX A3](#_APPENDIX_A3_–) | Must be valid United Nations - Code for Trade and Transport Locations, if applicable (UN/LOCODE) – see <http://www.unece.org/cefact/locode/service/location>  【JP comments: Some Japanese ports are not provided with the code.】 | <DEP\_PORT> | Y  (10) |
| DATE and TIME of RETUERN to PORT |  | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <DATE\_RET> | Y  (11) |
| PORT OF RETURN | PROVIDE the Port of Return for Unloading | [REFER TO APPENDIX A3](#_APPENDIX_A3_–) | Must be valid United Nations - Code for Trade and Transport Locations, if applicable (UN/LOCODE) | <RET\_PORT> | Y  (12) |
| dep\_lat | The actual depart LAT position for the trip (if departing AT SEA) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <dep\_lat> | N |
| dep\_lon | The actual depart LON position for the trip (if departing AT SEA) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <dep\_lon> | N |
| ret\_lat | The actual return LAT position for the trip (if departing AT SEA) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <ret\_lat> | N |
| ret\_lon | The actual return LON position for the trip (if departing AT SEA) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <ret\_lon> | N |
| **CREW INFORMATION** | | | | | |
| move to above |  |  |  |  |  |
| vescaptain | NAME of the captain of the vessel | NVarChar (50) |  | <vescaptain> | Y  (18) |
| VESCAPT\_NATION | NATIONALITY of the captain of the vessel  Two letter COUNTRY CODE for the country who organise the trip | Char (2) | Refer to valid ISO two-letter Country Codes - ISO 3166  For example, refer to <http://en.wikipedia.org/wiki/ISO_3166-1> | <vescapt\_CO\_CODE> | Y  (19) |
| VESCAPT\_ID\_DOC | Captain’s Document ID | NVarChar (20) |  | <VESCAPT\_ID\_DOC> | Y  (20) |
| vesmaster | NAME of the fishing master | NVarChar (50) |  | <vesmaster> | Y  (21) |
| VESMAST\_NATION | NATIONALITY of the vessel MASTER  Two letter COUNTRY CODE for the country who organise the trip | Char (2) | Refer to valid ISO two-letter Country Codes - ISO 3166  For example, refer to <http://en.wikipedia.org/wiki/ISO_3166-1> | <vescapt\_CO\_CODE> | Y  (22) |
| VESMAST\_ID\_DOC | FISHING MASTERS’s Document ID | NVarChar (20) |  | <VESCAPT\_ID\_DOC> | Y  (23) |
| Other crew | Total number of other crew on board |  |  | <Other\_crew> | Y  (24) |
| crew\_number | Total number of CREW onboard during the trip | Int |  | <crew\_number> | Y  (25) |
| **VESSEL ATTRIBUTE** | | | | | |
| cRUISING SPEED |  |  |  |  | Y  (26) |
| fISH HOLD CAPACITY |  |  |  |  | Y  (27) |
| fREEZER TYPE |  |  |  |  | y  (28) |
| length |  |  |  |  | y  (29) |
| TONNAGE |  |  |  |  | Y  (30) |
| eNGINE POWER |  |  |  |  | Y  (31) |
| **VESSEL ELECTRONICS** | | | | | |
| RaDERS |  |  |  |  | Y  (32) |
| DEPTH SOUNDER |  |  |  |  | Y  (33) |
| gps |  |  |  |  | y  (34) |
| tRAck PLOTTER |  |  |  |  | y  (35) |
| WEATHER FACSIMILE |  |  |  |  | y  (36) |
| sst GAUGE |  |  |  |  | y  (37) |
| sONAR |  |  |  |  | y  (38) |
| rADIO/sATELLITE bUOYS |  |  |  |  | y  (39) |
| dOPPLER cURRENT mETER |  |  |  |  | Y  (40) |
| xbt |  |  |  |  | Y  (41) |
| sATELLITE COMMUNICATION SERVICES |  |  |  |  | y  (42) |
| fISHERY INFORMATION SERVICES |  |  |  |  | Y  (43) |
| VMS |  |  |  |  | Y  (44) |
| **OTHERS** | | | | | |
| spill | FLAG to indicated the trip was a SPILL SAMPLE trip | Bit |  | <spill> | N |
| cadet | FLAG to indicated whether the trip was observed by a CADET observer | Bit |  | <cadet> | N |
| sharktarget | FLAG to indicated a trip has targeted SHARKS (LONGLINE trips only) | Bit |  | <sharktarget> | N |
| comments | General comments about the trip | NText |  | <comments> | N |

## DAILY SUMMARY DATA (Keep consistent with items used in WCPFC ROP Minimum Standards Data Fields)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PS\_OBS\_DAY**  **The observer must provide the information in this table (daily logged DAY) for EACH DAY AT SEA for the period of the trip.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[4]](#footnote-4)\***  **(Field #)** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| DAY LOG IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + LOCAL DAY LOG DATE |  |  | <s\_day\_id> | Y |
| DAY\_start | | Local Date and time at the start of the logged date. | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <start\_date> | Y |
| UTC\_DAY\_START | | UTC equivalent of DAY\_START | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <UTC\_start\_date> | Y |
| log\_nofish\_n | | For the entire logged day, provide the Number of logs sighted but no schools association. | SmallInt |  | <log\_nofish\_n> | Y |
| log\_fish\_n | | For the entire logged day, provide the Number of log associated schools sighted. | SmallInt |  | <log\_fish\_n> | Y |
| sch\_fish\_n | | For the entire logged day, provide the | SmallInt |  | <sch\_fish\_n> | Y |
| fad\_fish\_n | | For the entire logged day, provide the Number of anchored FADs sighted. | SmallInt |  | <fad\_fish\_n> | Y |
| fad\_nofish\_n | | For the entire logged day, provide the Number of anchored FADS sighted but no schools association. | SmallInt |  | <fad\_nofish\_n> | Y |
| gen3today\_ans | | For the entire logged day, provide the FLAG to indicate that incident has occurred on GEN3. | Char (1) | Must be consistent with the GEN-3 data. | <gen3today\_ans> | N |
| diarypage | | Journal page # which has detail explanations of the incident | VarChar (50) |  | <diarypage> | N |

## ACTIVITY LOG DATA (Keep consistent with items used in WCPFC ROP Minimum Standards Data Fields)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PS\_OBS\_ACTIVITY**  **The observer must PROVIDE a record of EACH change in ACTIVITY for EACH DAY AT SEA for the period of the trip. This is effectively the OBSERVER’s ACTIVITY LOG** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| ACTIVITY LOG IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG DATE + ACTIVITY LOG TIME |  |  | <S\_LOG\_ID> | Y |
| act\_date | | Local/Ship’s date and time of Activity log recording. | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be consistent with the start of DAY log DATE | <act\_date> | Y |
| UTC\_act\_DATE | | UTC equivalent of ACT\_DATE | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <UTC\_ACT\_DATE> | Y |
| lat | | Latitude at which this ACTIVITY LOG recorded | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lat> | Y |
| lon | | Longitude at which this ACTIVITY LOG recorded. | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lon> | Y |
| s\_activ\_id | | Purse seine activity code. | [REFER TO APPENDIX A5](#_APPENDIX_A5_–) |  | <s\_activ\_id> | Y |
| schas\_id | | School association code. | [REFER TO APPENDIX A6](#_APPENDIX_A5_–) |  | <schas\_id> | Y |
| deton\_id | | Detection id. code. Must be 1-6 or 0 for no information. | [REFER TO APPENDIX A7](#_APPENDIX_A5_–) |  | <deton\_id> | Y |
| beacon | | Beacon number where | NVarChar (20) | Can only be recorded where an activity is related to an event for investigating, deploying, retrieving or setting on a floating object. [REFER TO APPENDIX A5](#_APPENDIX_A5_–) | <beacon> | N |
| comments | | Observer comments related to this activity | NText |  | <comments> | N |

## SET-LEVEL DATA (Keep consistent with items used in WCPFC ROP Minimum Standards Data Fields)

| **PS\_OBS\_SET**  **The observer must PROVIDE the following information for EACH FISHING SET for the period of the trip.** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE | |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME | |  | Must be consistent with PS\_OBS\_ACTIVITY record where S\_ACTIV\_ID = 1 (A fishing set). | <S\_SET\_ID> | Y |
| set\_number | | Unique # for the SET ni this trip | | Int |  | <set\_number> | N |
| skiffoff\_time | | DEFINED as the START of SET – Local DATE/Time when net skiff off with net | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <skiffoff\_time> | Y |
| skiffoff\_UTC | | UTC DATE & TIME of START of SET | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be aligned to skiffoff\_time | <skiffoff\_UTC> | Y |
| winchon\_time | | LOCAL DATE/TIME when winches start to haul the net. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <winchon\_time> | Y |
| winchon\_UTC | | UTC DATE & TIME when winches start to haul the net. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be aligned to winchon\_time | <winchon\_UTC> | Y |
| ringup\_time | | LOCAL DATE/TIME when purse ring is raised from the water. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <ringup\_time> | Y |
| ringup\_UTC | | UTC DATE & TIME when purse ring is raised from the water. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be aligned to ringup\_time | <ringup\_UTC> | Y |
| sbrail\_time | | LOCAL DATE/TIME when brailing begins. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <sbrail\_time> | Y |
| sbrail\_UTC | | UTC DATE & TIME when brailing begins. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be aligned to sbrail\_time | <sbrail\_UTC> | Y |
| ebrail\_time | | LOCAL DATE/TIME when brailing ends. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <ebrail\_time> | Y |
| ebrail\_UTC | | UTC DATE & TIME when brailing ends. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be aligned to ebrail\_time | <ebrail\_UTC> | Y |
| stop\_time | | LOCAL DATE/TIME for the END of SET - Time when net skiff comes on-board i.e. end of set. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <stop\_time> | Y |
| stop\_UTC | | UTC DATE & TIME – Date &Time when net skiff comes on-board i.e. end of set. | | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) | Must be aligned to stop\_time | <stop\_UTC> | Y |
| ld\_brails | | Sum of all brails | | Decimal (8,3) |  | <ld\_brails> | N |
| ld\_brails2 | | Sum of brails (#2)- only where a second type of brailer was used | | Decimal (8,3) |  | <ld\_brails2> | N |
| MTtotal\_OBS | | Total observed catch (TUNA and BYCATCH) (mt) | | Decimal (8,3) |  | <MT\_TOTAL\_OBS> | Y |
| mttuna\_obs | | TOTAL amount of TUNA observed (mt) | | Decimal (8,3) | Derived from and consistent with MTTOTAL\_OBS minus all the bycatch (mt) listed under PS\_OBS\_CATCH for this SET | <mttuna\_obs> | Y |
| totskj\_ans | | **SKIPJACK** | FLAG to indicate whether SKJ is presence in the set catch | Char (1) |  | <totskj\_ans> | Y |
| perc\_skj | | % of SKJ in the set catch | Int |  | <perc\_skj> | Y |
| mtskj\_obs | | Metric Tonnes of SKJ in the set catch | Decimal (8,3) | Determined from MTTUNA\_OBS and PERC\_SKJ fields | <mtskj\_obs> | Y |
| totyft\_ans | | **YELLOWFIN** | FLAG to indicate whether YFT is presence in the set catch | Char (1) |  | <totyft\_ans> | Y |
| perc\_yft | | % of YFT in the set catch | Int |  | <perc\_yft> | Y |
| mtyft\_obs | | Metric Tonnes of YFT in the set catch | Decimal (8,3) | Determined from MTTUNA\_OBS and PERC\_YFT fields | <mtyft\_obs> | Y |
| large\_yft\_ans | | FLAG to indicate YFT in the set catch | Char (1) |  | <large\_yft\_ans> | Y |
| perc\_large\_yft | | % of large YFT in the set catch | Int |  | <perc\_large\_yft> | Y |
| nb\_large\_yft | | # of large YFT in the set catch | Int |  | <nb\_large\_yft> | Y |
| totbet\_ans | | **BIGEYE** | FLAG to indicate whether BET is presence in the set catch | Char (1) |  | <totbet\_ans> | Y |
| perc\_bet | | % of BET in the set catch | Int |  | <perc\_bet> | Y |
| mtbet\_obs | | Metric Tonnes of BET in the set catch | Decimal (8,3) | Determined from MTTUNA\_OBS and PERC\_BET fields | <mtbet\_obs> | Y |
| large\_bet\_ans | | FLAG to indicate BET in the set catch | Char (1) |  | <large\_bet\_ans> | Y |
| perc\_large\_bet | | % of large BET in the set catch | Int |  | <perc\_large\_bet> | Y |
| nb\_large\_bet | | # of large BET in the set catch | Int |  | <nb\_large\_bet> | Y |
| comments | | comments | | NText |  | <comments> | N |
| b\_nbtags | | Number of tags | | SmallInt |  | <b\_nbtags> | Y |

## SET CATCH DATA (Keep consistent with items used in WCPFC ROP Minimum Standards Data Fields)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PS\_OBS\_CATCH**  **The observer must PROVIDE the following CATCH DETAILS for EACH FISHING SET for the period of the trip.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  | Must be consistent with PS\_OBS\_ACTIVITY record where S\_ACTIV\_ID = 1 (A fishing set). | <S\_SET\_ID> | Y |
| CATCH IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME + SPECIES CODE + FATE CODE |  |  | <S\_CATCH\_ID> | Y |
| sp\_code | | Species code. | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <sp\_code> | Y |
| fate\_code | | FATE of this catch. This indicates whether it was RETAINED, DISCARDED or ESCAPED, and any specific processing. | Char (3) | [REFER TO APPENDIX 9](#_APPENDIX_A9_–) | <fate\_code> | Y |
| cond\_code | | CONDITION of this catch. Relevant for the Species of Special Interest. | Char (2) | [REFER TO APPENDIX 10](#_APPENDIX_A10_–) | <cond\_code> | Y |
| obs\_mt | | Observer’s visual estimate of TOTAL Species catch in metric tonnes. OBTAINED from the visual estimate of % of TUNA SPECIES in the respective fields for SKJ, YFT and BET in the table PS\_OBS\_SET. For BYCATCH species, this is the visual estimate, where relevant. | Decimal (8,3) |  | <obs\_mt> | Y |
| obs\_n | | Species catch (in numbers). OBTAINED from the visual estimate, which may be relevant for DISCARDs of TUNA, the discards/retained catch of BILLFISH and most other bycatch species.  Entry into this field is mandatory for any Species of Special interest. | Int | For Species of Special interest (Mammals, Turtles, Birds and Sharks) there must be a corresponding set of records in the Species of Special interest table. | <obs\_n> | Y |
| comments | | Are there any comments for this species catch ? (Y/N) | NText |  | <comments> | N |

## SPECIES OF SPECIAL INTEREST DATA

| **OBS\_SSI**  **The observer must PROVIDE the following SPECIES OF SPECIAL INTEREST CATCH DETAILS for EACH FISHING SET for the period of the trip. There may be one or many records for each SSI record in PS\_OBS\_CATCH. When SIGHTED only, then this table is linked to the OBS\_TRIP database table.** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[5]](#footnote-5)\***  **(Field #)** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y  (157) |
| SET IDENTIFIER - PS | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  | To be used to link to PS\_OBS\_SET when relevant  When SGTYPE = ‘L’ or ‘I’  Must be consistent with PS\_OBS\_ACTIVITY record where S\_ACTIV\_ID = 1 (A fishing set). | <S\_SET\_ID> | N |
| CATCH IDENTIFIER - PS | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME + SPECIES CODE + FATE CODE |  | To be used to link to PS\_OBS\_CATCH when relevant  When SGTYPE = ‘L’ or ‘I’  Must be a link to the corresponding PS\_OBS\_CATCH record for this SSI | <S\_CATCH\_ID> | N |
| SET IDENTIFIER – LL | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  | To be used to link to LL\_OBS\_SET when relevant  When SGTYPE = ‘L’ or ‘I’  Must be consistent with PS\_OBS\_ACTIVITY record where S\_ACTIV\_ID = 1 (A fishing set). | <L\_SET\_ID> | N |
| CATCH IDENTIFIER – LL | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME + SPECIES CODE + FATE CODE |  | To be used to link to LL\_OBS\_CATCH when relevant  When SGTYPE = ‘L’ or ‘I’  Must be a link to the corresponding PS\_OBS\_CATCH record for this SSI | <L\_CATCH\_ID> | N |
| SSI CATCH IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG + SIGHTING TIME + SPECIES CODE + FATE CODE |  |  | <SSI\_ID> | N |
| **GENERAL INFORMAION** | | | | | |
| sgtype | Type of Interaction : 'L' – Landed on deck; "S"- Sighted; "I" - Interacted with Gear | Char (1) | Must be 'L' - Landed on deck; "S"- Sighted; "I" - Interacted with Gear | <sgtype> | Y  (127) |
| sg\_Date and time | Record ships date and time of interaction | REFER TO APPENDIX A1 |  | <sgt\_DATEime> | Y  (128) |
| SG\_lat and LON | Latitude at which this SSI was encountered | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) | When SGTYPE = ‘L’ or ‘I’  Must be consistent with PS\_OBS\_ACTIVITY record – LAT | <SGT\_latLON> | Y  (129) |
| sp\_code | SSI Species encountered. Link to species table | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–)  Must correspond to the PS\_OBS\_CATCH record | <sp\_code> | Y  (130) |
| sp\_desc | Extended Species Description | NText |  | <sp\_desc> | N |
| **LANDED ON DECK** | | | | | |
| landed\_cond\_code | Condition code on LANDING | Char (2) | [REFER TO APPENDIX 10](#_APPENDIX_A10_–) | <landed\_cond\_code> | Y  (136) |
| landed\_cond\_desc | Description of Condition on Landing or at start of interaction with vessel's gear | NText |  | <landed\_cond\_desc> | N |
| landed\_handling | Description of handling on landing | NText |  | <landed\_handling> | N |
| landed\_len | Length of landed species | Decimal (5,1) |  | <landed\_len> | Y  (131) |
| len\_code | Length code of the individual | Char (2) | [REFER TO APPENDIX 11](#_APPENDIX_A11_–) | <len\_code> | Y  (132) |
| landed\_sex\_code | Sex code of the individual | Char (1) | [REFER TO APPENDIX 12](#_APPENDIX_A12_–) | <landed\_sex\_code> | Y  (133) |
| RELEASE\_cond\_code | Condition code on RELEASE/DISCARD, or at the END of interaction with vessel's gear | Char (2) | [REFER TO APPENDIX 10](#_APPENDIX_A10_–) | <RELEASE\_cond\_code> | Y  (137) |
| RELEASE\_cond\_desc | Description of Condition on RELEASE/DISCARD, or at the END of interaction with vessel's gear | NText |  | <discard\_cond\_desc> | N |
| shk\_fin\_wt\_kgs | Estimated SHARK FIN WEIGHT (kgs) | Decimal (5,0) |  | <SHK\_FIN\_WT\_KGS> | Y  (134) |
| shk\_fin\_body\_kgs | Estimated SHARK CARCASS WEIGHT (kgs) | Decimal (5,0) |  | <SHK\_FIN\_BODY\_KGS> | Y  (135) |
| tag\_ret\_info | Record as much as information as possible on any Tags recovered | NVarChar (7) |  | <tag\_ret\_INF> | Y  (138) |
| tag\_place\_Info | Record as much as information as possible on any Tags placed | NVarChar (14) |  | <tag\_place\_INF> | Y |
| **INTERACTION WITH VESSEL OR GEAR ONLY** | | | | | |
| intact\_id | Vessel activity when INTERACTION occurs | Int | [REFER TO APPENDIX 13](#_APPENDIX_A13_–) | <intact\_id> | Y  (140) |
| intact\_other | Other types of interaction | NVarChar (20) |  | <intact\_other> | N |
| COndition at start |  |  |  |  | Y  (141) |
| Condition at end |  |  |  |  | Y  (142) |
| int\_describe | Description of the interaction | NText |  | <int\_describe> | Y  (143) |
| sgact\_id | Vessel activity when SIGHTING occurs | Int | [REFER TO APPENDIX 13](#_APPENDIX_A13_–) | <sgact\_id> | N |
| sgact\_other | Indicates "other" Vessel Activity | NVarChar (20) |  | <sgact\_other> | N |
| sight\_n | Number of individuals sighted | SmallInt |  | <sight\_n> | Y  (144) |
| sight\_adult\_n | Number of adults sighted | SmallInt |  | <sight\_adult\_n> | N |
| sight\_juv\_n | Number of juveniles sighted | SmallInt |  | <sight\_juv\_n> | N |
| sight\_len | Estimated overall length (Average if more than one individual) | NText |  | <sight\_len> | N |
| sight\_dist | Distance of sighted animals from vessel | Decimal (7,3) |  | <sight\_dist> | N |
| sight\_dist\_unit | Units used for SIGHT\_DIST | INT | 1 = Metres; 2 = kilometres; 3 = Nautical miles | <sight\_dist\_unit> | N |
| sight\_dist\_nm | Distance in nautical miles | Decimal (10,4) |  | <sight\_dist\_nm> | N |
| sight\_behav | Description of behaviour of Sighted animals | NText |  | <sight\_behav> | N |

## SPECIES OF SPECIAL INTEREST DETAILS DATA

| **OBS\_SSI\_DETAILS**  **The observer must PROVIDE the following SPECIES OF SPECIAL INTEREST CATCH DETAILS for EACH FISHING SET for the period of the trip. The specific detail of each interaction needs to be recorded/stored here.** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SSI CATCH IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG + SIGHTING TIME + SPECIES CODE + FATE CODE |  | Link to OBS\_SSI table | <SSI\_ID> | Y |
| SSI DETAILS IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG + SIGHTING TIME + SPECIES CODE + FATE CODE |  |  | <SSI\_DET\_ID> | Y |
| start\_end | Indication of “START” or “END” of interaction | Char (1) | Must be either ‘S’ for START or ‘E’ for END | <start\_end> | N |
| SSI\_number | Number of animals interacted | Int |  | <SSI\_number> | N |
| cond\_code | CONDITION at the point of recording (either START or END) | Char (2) | [REFER TO APPENDIX 10](#_APPENDIX_A10_–) | <cond\_code> | N |
| description | Descriptions of the interaction | VarChar (100) |  | <description> | N |

## LENGTH SAMPLE DATA

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PS\_LFSAMPLE**  **PROVIDE the information related to the size (length) and species composition SAMPLE from each FISHING SET.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  |  | <S\_SET\_ID> | Y |
| LF SAMPLE IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG + SET START DATE + SET START TIME + SAMPLE\_TYPE |  |  | <S\_LFSAMP \_ID> | Y |
| sampletype\_id | | Sample Type | CHAR(1) | [REFER TO APPENDIX 14](#_APPENDIX_A14_–) | <sampletype\_id> | N |
| other\_desc | | Description other sampling type | NText |  | <other\_desc> | N |
| fish\_per\_brail | | Target # of fish for sampling | SmallInt |  | <fish\_per\_brail> | N |
| measure\_code | | MEASURING INSTRUMENT | Char (1) | [REFER TO APPENDIX 15](#_APPENDIX_A15_–) | <measure\_code> | N |
| comments | | Comments about the sampling | NText |  | <comments> | N |
| brail\_full\_n | | # of Full brail count | SmallInt |  | <brail\_full\_n> | N |
| brail\_78\_n | | # of Seven eighths brail count | SmallInt |  | <brail\_78\_n> | N |
| brail\_34\_n | | # of Three quarter brail count | SmallInt |  | <brail\_34\_n> | N |
| brail\_23\_n | | # of Two third brail count | SmallInt |  | <brail\_23\_n> | N |
| brail\_12\_n | | # of Half brail count | SmallInt |  | <brail\_12\_n> | N |
| brail\_13\_n | | # of One third brail count | SmallInt |  | <brail\_13\_n> | N |
| brail\_14\_n | | # of One quarter brail count | SmallInt |  | <brail\_14\_n> | N |
| brail\_18\_n | | # of One eighth brail count | SmallInt |  | <brail\_18\_n> | N |
| brail\_n | | Total number of brails | SmallInt |  | <brail\_n> | N |
| sum\_brails | | Sum of All Brails | Decimal (7,2) |  | <sum\_brails> | N |
| sampled\_brail\_num | | # of sampled brail | Int |  | <sampled\_brail\_num> | N |
| measured\_n | | # of samples measured | Int |  | <measured\_n> | N |

## 1.9.1INDIVIDUAL LENGTH DATA

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PS\_LFMEAS**  **PROVIDE the individual fish measurements from the SAMPLE from each FISHING SET.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  |  | <S\_SET\_ID> | Y |
| LF SAMPLE IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG + SET START DATE + SET START TIME + SAMPLE\_TYPE |  |  | <S\_LFSAMP \_ID> | Y |
| LF MEASURE IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DAY LOG + SET START DATE + SET START TIME + SAMPLE\_TYPE + SEQ\_NUMBER |  |  | <S\_LFMEAS\_ID> | Y |
| seq\_number | | Measurement number. | Int |  | <seq\_number> | N |
| sp\_code | | Link to species table | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <sp\_code> | Y  (102) |
| LEN\_code | | Record length mesurement |  |  |  | Y  (103) |
| len | | Length (cm).  Expect that the following measurements have been taken by the observers, as instructed.  TUNA SPECIES - Upper jaw to fork length;  SHARK SPECIES - total length;  BILLFISH SPECIES - Lower jaw to fork length for billfish. | SmallInt |  | <len> | Y  (104) |

## TRIP MONITORING SUMMRAY

| **OBS\_TRIPMON**  **PROVIDE the details of the OBSERVER GEN-3 “OBSERVER VESSEL TRIP MONITORING FORM”. One record per question.** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[6]](#footnote-6)\***  **(Field #)** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| TRIP MONITORING IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + UNIQUE SEQ NUMBER |  |  | <TRIPMON\_ID> | Y |
| question\_code | | Unique CODE for each question | Char (4) | [REFER TO APPENDIX 16](#_APPENDIX_A16_–) | <question\_code> | Y  (166-188) |
| answer | | Record answer for each question | Char (1) | MUST BE ‘Y’, ‘N’ or ‘X’- not answered | <answer> | Y  (166-188) |
| journal\_page | | Additional explanation and information for any YES response | NText |  | <journal\_page> | Y  (166-188) |

## TRIP MONITORING COMMENTS

| **OBS\_TRIPMON\_COMMENTS**  **PROVIDE the details of the OBSERVER GEN-3 “OBSERVER VESSEL TRIP MONITORING FORM”. One record per day of trip monitoring reported event/incident.** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[7]](#footnote-7)\***  **(Field #)** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| TRIP MONITORING COMMENTS IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + UNIQUE SEQ NUMBER |  |  | <TRIPMON\_DET\_ID> | Y |
| gen3\_date | | Date of the incident on GEN3 | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <gen3\_date> | N |
| comments | | Detail description of the incident | NText |  | <comments> | N |

## VESSEL/AIRCRAFT SIGHTINGS DATA

| **VES\_AIR\_SIGHT**  **PROVIDE the details on the GEN-1 form -- VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS LOGS** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[8]](#footnote-8)\***  **(Field #)** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SIGHTING IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SIGHT\_DATE\_TIME |  |  | <sight\_ID> | N |
| sight\_date\_TIME | | Date/Time of sighting | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <sighting\_date> | Y  (145) |
| SIGHT\_POSITION | | Position of sighting | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <SIGHTING\_POSITION> | Y  (146) |
| NAME | | Record sighted vessel or aircraft name, where possible |  |  |  | Y  (147) |
| CAll-sign | | Record sighted vessel or aircraft call-sign, where possible |  |  |  | Y  (148) |
| FLAG | | Record flag of sight vessel, if possible |  |  |  | Y  (149) |
| OTHER-MARKING | | Record other vessel markings, if possible |  |  |  | Y  (150) |
| vatyp\_id | Vessel / Aircraft type | | Int | [REFER TO APPENDIX 17](#_APPENDIX_A17_–) | <vatyp\_id> | Y  (151) |
| bearing\_dir | Bearing (0-360 degrees) | | SmallInt |  | <bearing\_dir> | Y  (152) |
| distance | Distance | | Decimal (7,3) |  | <distance> | Y  (153) |
| action\_code | Action of Vessel/Aircraft sighted | | Char (2) | [REFER TO APPENDIX 18](#_APPENDIX_A18_–) for Vessel/Aircraft sightings only – only allow actions where FORM USED = ‘GEN-1’ | <action\_code> | Y  (154) |
| comments | Comments | | NText |  | <comments> | Y  (155) |



(INTEGRATE to TRIP LEVEL DATA)

## (INTEGRATE to TRIP LEVEL DATA)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VES\_ELEC**  **PROVIDE information on the standard Marine Electronic devices.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| TRIP/VESSEL DEVICE IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + DEVICE\_ID |  |  | <V\_DEVICE\_ID> | Y |
| device\_id | | Marine Device CODE. | Int | [Refer to APPENDIX 20](#_APPENDIX_A20_–) - the DEVICES should only be available according to the respective gear code (e.g. “S” for purse seine or “L” for longline is in the GEAR LIST CODES column ) | <device\_id> | Y |
| ONBOARD\_code | | Is this DEVICE SIGHTED ONBOARD ? | Char (1) | ‘Y’ or ‘N’ | <ONBOARD\_code> | Y |
| usage\_code | | Is this DEVICE USED ? | Char (3) | [Refer to APPENDIX 21](#_APPENDIX_A21_–) | <usage\_code> | N |
| make\_desc | | Description of Make | NVarChar (30) |  | <make\_desc> | N |
| model\_desc | | Description of Model | NVarChar (30) |  | <model\_desc> | N |
| comments | | Comments | NText |  | <comments> | N |

## WELL TRANSFER DATA

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **WELL\_TRANSFER**  **PROVIDE information for each transfer to/from storage WELLs during the trip.**  **This may become mandatory WCPFC data collection related to CDS.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | N |
| WELL TRANSFER IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + TRX\_DATE |  |  | <S\_WELL\_TRX\_ID> | N |
| trx\_date | | DATE and TIME of fish transfer | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <TRX\_date> | N |
| action\_code | | WELL TRANSFER ACTION CODE | Char (2) | [REFER TO APPENDIX 18](#_APPENDIX_A18_–) for Well transfers only – only allow actions where FORM USED = ‘PS-5 | <action\_code> | N |
| source | | Fish transfer source  Can be the ‘NET’ and valid well number or a VESSEL | VarChar (80) | Can be the ‘NET’ and valid well number or a VESSEL | <source> | N |
| destination | | Description of the transfer destination  Can be Well No., vessel, SHORE or DISCARD | VarChar (80) | Can be Well No., vessel, SHORE or DISCARD | <destination> | N |
| wELL\_MT | | Weight of the fish transfer | Decimal (8,3) |  | <WELL\_MT> | N |
| change | | Change of transfer – add or remove | Char (1) | Must be either ‘+’, ‘-‘ or ‘0’ (for no change) | <change> | N |
| new\_total | | New cumulative to for the transfer | Decimal (8,3) |  | <new\_total> | N |
| on\_logsheet | | FLAG to indicate the transfer has been stated on the logsheet | Char (1) |  | <on\_logsheet> | N |
| comments | | Comments made on the fish transfer | NText |  | <comments> | N |

## PURSE SEINE GEAR DATA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PS\_GEAR**  **PROVIDE information on the PURSE SEINE GEAR on the vessel.** | | | | | |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[9]](#footnote-9)\***  **(Field #)** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| PS GEAR IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <S\_GEAR\_ID> | Y |
| **VESSEL AND RELATED ACTIVITIES** | | | | | |
| SUpport vessels |  |  |  |  | Y  (94) |
| Helicopter |  |  |  |  | Y  (95) |
| **GEAR ATTRIBUTES** | | | | | |
| pb\_make | Power block make | NVarChar (20) |  | <pb\_make> | N |
| pb\_model | Power block model | NVarChar (20) |  | <pb\_model> | N |
| pw\_make | Purse winch make | NVarChar (20) |  | <pw\_make> | N |
| pw\_model | Purse winch model | NVarChar (20) |  | <pw\_model> | N |
| net\_depth | Max depth of the net | SmallInt |  | <net\_depth> | Y  (96) |
| net\_depth\_unit\_id | Net Depth unit of measurement  M – metres; Y- Yards; F-Fathoms | Int | Must be M, Y, F or blank | <net\_depth\_unit\_id> | Y |
| net\_length | Max length of the net | SmallInt |  | <net\_length> | Y  (97) |
| net\_length\_unit\_id | Net Length unit of measurement  M – metres; Y- Yards; F-Fathoms | Int | Must be M, Y, F or blank | <net\_length\_unit\_id> | Y |
| net\_strips | Number of net strips | SmallInt |  | <net\_strips> | N |
| net\_hang\_ratio | Max net hang ratio | SmallInt |  | <net\_hang\_ratio> | N |
| mesh\_main | Main Mesh size | SmallInt |  | <mesh\_main> | Y  (98) |
| mesh\_main\_unit\_id | Main mesh size unit of measurement  C – centimetres; I - Inches | Int | Must be C, I or blank | <mesh\_main\_unit\_id> | Y |
| brail\_size1 | Brail #1 Capacity | Decimal (5,1) |  | <brail\_size1> | Y  (99) |
| brail\_size2 | Brail #2 Capacity | Decimal (5,1) |  | <brail\_size2> | Y |
| brail\_type | Brailing Type Description | NText |  | <brail\_type> | Y |

## FAD MATERIAL DATA (Keep consistent with items used in WCPFC ROP Minimum Standards Data Fields)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PS\_FAD\_MATERIAL**  **PROVIDE information on the FAD MATERIAL observed during the trip.** | | | | | |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| FAD EVENT IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + FAD EVENT DATE/TIME |  |  | <FAD\_ID> | Y |
| FAD\_EVENT\_DATE | DATE/TIME of the FAD observation event | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <FAD\_EVENT\_DATE> | Y |
| object\_number | Number allocated for the object | SmallInt |  | <object\_number> | Y |
| origin\_code | Original CODE of the FAD | [REFER TO APPENDIX A24](#_APPENDIX_A24_–) | Code 5 or 6 used for FADs with radio buoy attached | <origin\_code> | Y |
| deployment\_date | Date of FAD deployment | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <deployment\_date> | Y |
| lat | LAT postion of deployment | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lat> | Y |
| lon | LON postion of deployment | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lon> | Y |
| ssi\_trapped | FLAG to indicate whether any SSI are trapped on the FAD | Char (1) |  | <ssi\_trapped> | Y |
| as\_found\_code | CODE to indicate whether the FAD “as Found” | Int |  | <as\_found\_code> | Y |
| as\_left\_code | CODE to indicate whether the FAD “as Left” | Int |  | <as\_left\_code> | Y |
| max\_depth\_m | Max DEPTH of the FAD in metres | Decimal (5,1) |  | <max\_depth\_m> | Y |
| length\_m | Max LENGTH of the FAD in metres | Decimal (5,1) |  | <length\_m> | Y |
| width\_m | Max WIDTH of the FAD in metres | Decimal (5,1) |  | <width\_m> | Y |
| buoy\_number | Buoy number stated on the FAD | NVarChar (20) |  | <buoy\_number> | Y |
| markings | Markings on the FAD | NVarChar (50) |  | <markings> | Y |
| comments | Comments made by the observer about the FAD | NText |  | <comments> | Y |

## FAD MATERIAL DETAIL (Keep consistent with items used in WCPFC ROP Minimum Standards Data Fields)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PS\_FAD\_MATERIAL\_DETAIL**  **PROVIDE information on the FAD MATERIAL DETAIL observed during the trip.** | | | | | |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| FAD EVENT IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + FAD EVENT DATE/TIME |  |  | <FAD\_ID> | Y |
| material\_code | FAD Material CODE | [REFER TO APPENDIX A26](#_APPENDIX_A26_–) | Material Code must exist in the ref\_ids table | <material\_code> | Y |
| is\_attachment | FLAG to indicate if there is an attachment to the FAD | Char (1) | ‘Y’ or ‘N’ | <is\_attachment> | Y |

## OBSERVER POLLUTION REPORT

| **OBS\_POLLUTION**  **PROVIDE information any Pollution observed during the trip.** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[10]](#footnote-10)\***  **(Field #)** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| POLLUTION EVENT IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + INCIDENT DATE/TIME |  |  | <POLL\_ID> | Y |
| inc\_dATE | DATE & TIME of the incident | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <inc\_dtime> | N |
| lat | Latitude where incident occured | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lat> | N |
| lon | Longitude where incident occured | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lon> | N |
| port\_id | PORT where incident occurred | [REFER TO APPENDIX A3](#_APPENDIX_A3_–) |  | <port\_id> | N |
| activ\_id | Activity when event occurred | [REFER TO APPENDIX A5](#_APPENDIX_A5_–) |  | <activ\_id> | N |
| VESSEL IDENIFIER | [REFER TO APPENDIX A4](#_APPENDIX_A1_–) | | | | |
| vatyp\_id | Vessel / Aircraft type | Int | [REFER TO APPENDIX 17](#_APPENDIX_A17_–) | <vatyp\_id> | N |
| bearing\_dir | Compass Bearing to offending vessel | SmallInt |  | <bearing\_dir> | N |
| distance | Distance to offending vessel | Decimal (7,3) |  | <distance> | N |
| comments | Additional comments | NText |  | <comments> | N |
| stickers\_ans | Response to "Stickers" question | Char (1) | ‘Y’ or ‘N’ | <stickers\_ans> | N |
| aware\_ans | Response to "MARPOL" question | Char (1) | ‘Y’ or ‘N’ | <aware\_ans> | N |
| advised\_ans | Response to "INFRINGEMENTS" question | Char (1) | ‘Y’ or ‘N’ | <advised\_ans> | N |
| photos\_ans | Response to "PHOTOS" question | Char (1) | ‘Y’ or ‘N’ | <photos\_ans> | N |
| photo\_numbers | Number of photos taken on the incident | NVarChar (50) |  | <photo\_numbers> | N |

## OBSERVER POLLUTION DETAILS

| **OBS\_POLLUTION\_DETAILS**  **PROVIDE information any Pollution details observed during the trip.** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[11]](#footnote-11)\***  **(Field #)** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| POLLUTION EVENT IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + INCIDENT DATE/TIME |  |  | <POLL\_ID> | Y |
| pollutiontype\_id | Pollution type code | [REFER TO APPENDIX A31](#_APPENDIX_A31_–) | For example, Disposal of OFFAL MANAGEMENT is a WCFPC required field. | <pollutiontype\_id> | Y |
| material\_id | Pollution Materials code | [REFER TO APPENDIX A29](#_APPENDIX_A29_–) |  | <material\_id> |  |
| POLL\_GEAR\_ID | Pollution Gear code | [REFER TO APPENDIX A28](#_APPENDIX_A28_–) |  | <POLL\_GEAR\_ID> |  |
| POLL\_SRC\_ID | Pollution Source code | [REFER TO APPENDIX A30](#_APPENDIX_A30_–) | For example, Disposal of OFFAL MANAGEMENT is a WCFPC required field. | <POLL\_SRC\_ID> | Y |
| poll\_desc | Description of pollution type | NText | For example, Disposal of OFFAL MANAGEMENT is a WCFPC required field. | <poll\_desc> | Y |
| poll\_qty | Description of pollution quantity | NText | For example, Disposal of OFFAL MANAGEMENT is a WCFPC required field. | <poll\_qty> | Y |

## OBSERVER JOURNAL

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OBS\_JOURNAL**  **PROVIDE a description of the day’s activities in a daily journal record for the trip.** | | | | | |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | N |
| DAILY JOURNAL IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBS\_JRNL\_ID> | N |
| JRNL\_date | DATE of Journal entry | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <JRNL\_date> | N |
| JRNL\_TEXT | Daily journal entry | NText |  | <JRNL\_TEXT> | N |

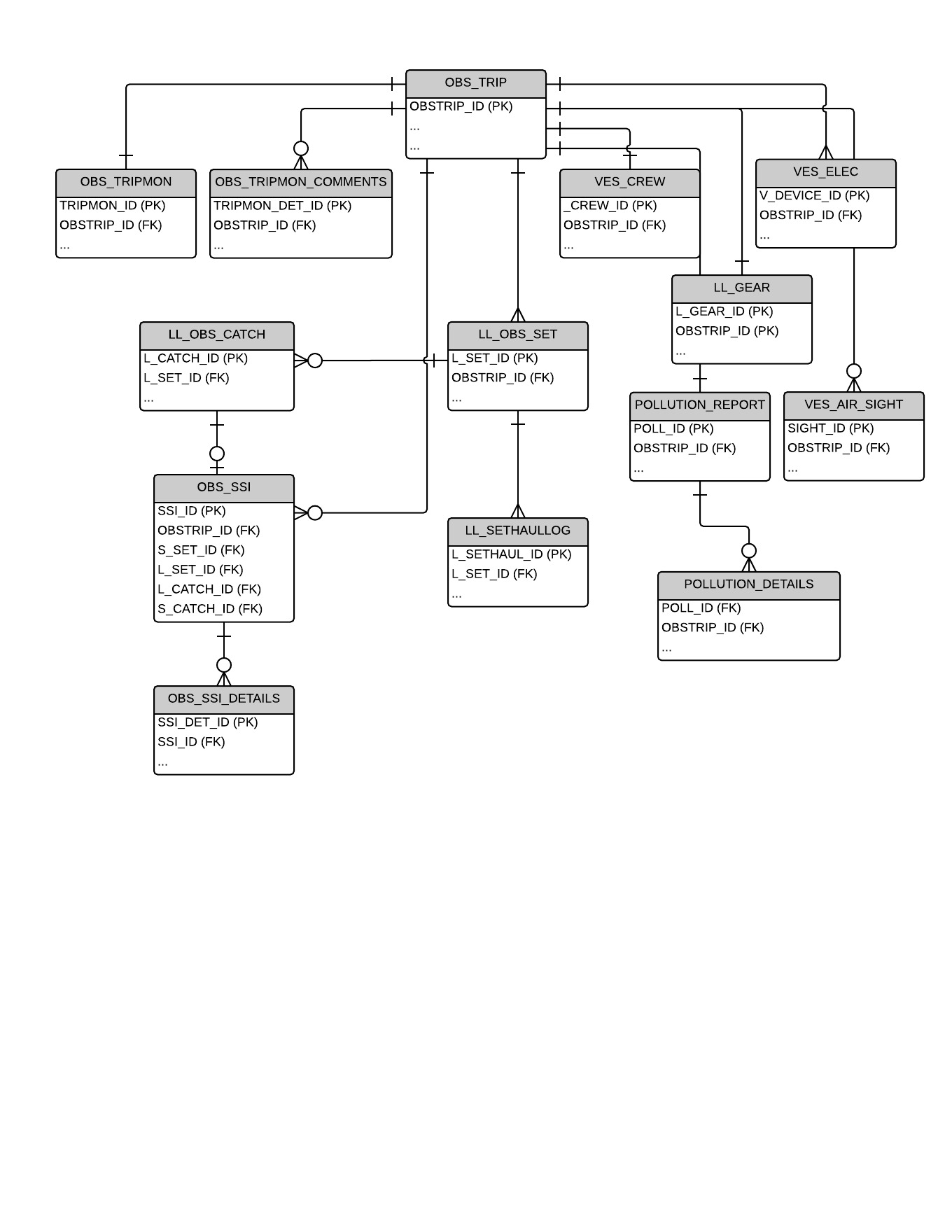
## PURSE SEINE TRIP REPORT

| **PS\_TRIP\_REPORT**  **PROVIDE descriptive information on the trip.**  **Refer to the relevant sections in** [**http://www.spc.int/OceanFish/en/publications/doc\_download/1334-2014-ps-trip-report-**](http://www.spc.int/OceanFish/en/publications/doc_download/1334-2014-ps-trip-report-) | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | N |
| 1\_BACKGROUND | (Refer to relevant section in link above) | NText |  | <1\_BACKGROUND> | N |
| 2\_0\_CRUISE\_SUMMARY | (Refer to relevant section in link above) | NText |  | <2\_0\_CRUISE\_SUMMARY> | N |
| 2\_1\_Area\_FISHED | (Refer to relevant section in link above) | NText |  | <2\_1\_Area\_FISHED> | N |
| 2\_2\_END\_OF\_TRIP | (Refer to relevant section in link above) | NText |  | <2\_2\_END\_OF\_TRIP> | N |
| 3\_0\_DATA\_COLLECTED | (Refer to relevant section in link above) | NText |  | <3\_0\_DATA\_COLLECTED> | N |
| 4\_0\_VESSEL\_CREW | Refer to relevant section in link above) | NText |  | <4\_0\_VESSEL\_CREW> | N |
| 4\_1\_VESS\_INFO | Refer to relevant section in link above) | NText |  | <4\_1\_VESS\_INFO> | N |
| 4\_2\_CREW\_NATION | Refer to relevant section in link above) | NText |  | <4\_2\_CREW\_NATION> | N |
| 4\_2\_1\_PIC | Refer to relevant section in link above) | NText |  | <4\_2\_1\_PIC> | N |
| 4\_3\_FISHING\_GEAR | Refer to relevant section in link above) | NText |  | <4\_3\_FISHING\_GEAR> | N |
| 4\_3\_1\_BRAIL | Refer to relevant section in link above) | NText |  | <4\_3\_1\_BRAIL> | N |
| 4\_3\_2 NET | Refer to relevant section in link above) | NText |  | <4\_3\_2 NET> | N |
| 4\_4\_ELEC | Refer to relevant section in link above) | NText |  | <4\_4\_ELEC> | N |
| 4\_5\_safety\_eq | Refer to relevant section in link above) | NText |  | <4\_5\_safety\_eq> | N |
| 4\_6\_OTHER\_GEAR | Refer to relevant section in link above) | NText |  | <4\_6\_OTHER\_GEAR> | N |
| 5\_0\_fISH\_STRATEGY | Refer to relevant section in link above) | NText |  | <5\_0\_fISH\_STRATEGY> | N |
| 5\_1\_FLOAT\_SCHS | Refer to relevant section in link above) | NText |  | <5\_1\_FLOAT\_SCHS> | N |
| 5\_2\_FREE\_SCHS | Refer to relevant section in link above) | NText |  | <5\_2\_FREE\_SCHS> | N |
| 5\_3\_set\_TECH | Refer to relevant section in link above) | NText |  | <5\_3\_set\_TECH> | N |
| 5\_4\_VESS\_ADV | Refer to relevant section in link above) | NText |  | <5\_4\_VESS\_ADV> | N |
| 5\_5\_HELICOPTER | Refer to relevant section in link above) | NText |  | <5\_5\_HELICOPTER> | N |
| 5\_6\_FISH\_SUCC | Refer to relevant section in link above) | NText |  | <5\_6\_FISH\_SUCC> | N |
| 5\_7\_FISH\_INFO | Refer to relevant section in link above) | NText |  | <5\_7\_FISH\_INFO> | N |
| 6\_0\_COC | Refer to relevant section in link above) | NText |  | <6\_0\_COC> | N |
| 7\_0\_ENVIRON | Refer to relevant section in link above) | NText |  | <7\_0\_ENVIRON> | N |
| 8\_1\_tARGET\_RET | Refer to relevant section in link above) | NText |  | <8\_1\_tARGET\_RET> | N |
| 8\_2\_tARGET\_DISC | Refer to relevant section in link above) | NText |  | <8\_2\_tARGET\_DISC> | N |
| 8\_3\_Target\_LOG | Refer to relevant section in link above) | NText |  | <8\_3\_Target\_LOG> | N |
| 8\_4\_BYCATCH | Refer to relevant section in link above) | NText |  | <8\_4\_BYCATCH> | N |
| 8\_4\_1\_BYC\_LOG\_COMP | Refer to relevant section in link above) | NText |  | <8\_4\_1\_BYC\_LOG\_COMP> | N |
| 8\_4\_2\_bill | Refer to relevant section in link above) | NText |  | <8\_4\_2\_bill> | N |
| 8\_4\_3\_Sharks\_rays | Refer to relevant section in link above) | NText |  | <8\_4\_3\_Sharks\_rays> | N |
| 8\_4\_4\_Other\_by-catch | Refer to relevant section in link above) | NText |  | <8\_4\_4\_Other\_by-catch> | N |
| 8\_4\_5\_Unspec\_sp\_codes | Refer to relevant section in link above) | NText |  | <8\_4\_5\_Unspec\_sp\_codes> | N |
| 8\_4\_6\_Ssi\_land | Refer to relevant section in link above) | NText |  | <8\_4\_6\_Ssi\_land> | N |
| 8\_4\_7\_Ssi\_interact | Refer to relevant section in link above) | NText |  | <8\_4\_7\_Ssi\_interact> | N |
| 8\_4\_8\_Ssi\_sight | Refer to relevant section in link above) | NText |  | <8\_4\_8\_Ssi\_sight> | N |
| 9\_0\_SAMPLING | Refer to relevant section in link above) | NText |  | <9\_0\_SAMPLING> | N |
| 9\_1\_GRAB | Refer to relevant section in link above) | NText |  | <9\_1\_GRAB> | N |
| 9\_2\_SPILL | Refer to relevant section in link above) | NText |  | <9\_2\_SPILL> | N |
| 9\_3\_OTHER | Refer to relevant section in link above) | NText |  | <9\_3\_OTHER> | N |
| 10\_0\_Other\_PROJ | Refer to relevant section in link above) | NText |  | <10\_0\_Other\_PROJ> | N |
| 11\_0\_WELL\_LOAD | Refer to relevant section in link above) | NText |  | <11\_0\_WELL\_LOAD> | N |
| 12\_0\_VESS \_DATA | Refer to relevant section in link above) | NText |  | <12\_0\_VESS \_DATA> | N |
| 13\_0\_GENERAL | Refer to relevant section in link above) | NText |  | <13\_0\_GENERAL> | N |
| 14\_0\_ TRIP\_MON | Refer to relevant section in link above) | NText |  | <14\_0\_ TRIP\_MON> | N |
| 14\_1\_Clarify | Refer to relevant section in link above) | NText |  | <14\_1\_Clarify> | N |
| 14\_2\_Recommend | Refer to relevant section in link above) | NText |  | <14\_2\_Recommend> | N |
| 14\_3\_Crew\_info | Refer to relevant section in link above) | NText |  | <14\_3\_Crew\_info> | N |
| 14\_4\_Medical | Refer to relevant section in link above) | NText |  | <14\_4\_Medical> | N |
| 14\_5\_Photos | Refer to relevant section in link above) | NText |  | <14\_5\_Photos> | N |
| 14\_6\_other info | Refer to relevant section in link above) | NText |  | <14\_6\_other info> | N |
| 15\_0\_PROBs | Refer to relevant section in link above) | NText |  | <15\_0\_PROBs> | N |
| 15\_1\_Form\_ch\_recs | Refer to relevant section in link above) | NText |  | <15\_1\_Form\_ch\_recs> | N |
| 16\_0\_CONCL | Refer to relevant section in link above) | NText |  | <16\_0\_CONCL> | N |
| 17\_0\_ACKs | Refer to relevant section in link above) | NText |  | <17\_0\_ACKs> | N |

# LONGLINE OBSERVER E-REPORTING STANDARDS

## DATA MODEL DIAGRAM

The following basic data model diagram outlines the structure of the entities and their relationships for purse seine operational OBSERVER data collected by E-Reporting systems and submitted to national and regional fisheries authorities. The tables that follow provide more information on the mechanisms of the links (relationships) between the entities.



## TRIP-LEVEL DATA

(see the common OBS\_TRIP table under [1.2 TRIP-LEVEL DATA](#_TRIP-LEVEL_DATA))

## SET-LEVEL DATA

| **LL\_OBS\_SET**  **The observer must PROVIDE the following information for EACH FISHING SET/HAUL during the trip.** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[12]](#footnote-12)\***  **(Field #)** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  |  | <L\_SET\_ID> | Y |
| set\_number | Unique # for the SET in this trip | Int |  | <set\_number> | N |
| observed\_yn | Flag to indicate whether set was observer or not. | Bit |  | <observed\_yn> | N |
| set\_SART\_date | Date/time for start of set. | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <setSTAR\_date> | Y  (67) |
| SET\_START\_POSITION | Position for start of set | [REFER TO APPENDIX A2](#_APPENDIX_A1_–) |  | <setSTAR\_POSITION> | Y  (68) |
| SET\_END\_DATE | Date/time for end of set | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <setEND\_date> | Y  (69) |
| SET\_END\_POSITION | Position for end of set | [REFER TO APPENDIX A2](#_APPENDIX_A1_–) |  | <setEND\_POSITION> | Y  (70) |
| HAUL\_SART\_date | Date/time the first buoy of the mainline is hauled from the water to start the haul | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <setSTAR\_date> | Y  (82) |
| HAUL\_END\_DATE | Date/time the last buoy of the mainline is hauled from water to end the haul | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <setEND\_date> | Y  (83) |
| hk\_bt\_flt | Number of hooks between floats | SmallInt | Must be 1-60, or -1 for no information. | <hk\_bt\_flt> | Y  (72) |
| bask\_set | Number of baskets set. | SmallInt |  | <bask\_set> | Y  (71) |
| bask\_observed | Number of basket observed (bottom of form, Nov 07 version) | SmallInt |  | <bask\_observed> | Y  (84) |
| hook\_set | Total number of hooks used in a set. | SmallInt |  | <hook\_set> | Y  (73) |
| hook\_observed | Number of hooks observed and data recorded. | SmallInt |  | <hook\_observed> | N |
| float\_length | Length of floatline (m) | SmallInt |  | <float\_length> | Y  (75) |
| lspeed | Line shooter speed. | Decimal (5,1) |  | <lspeed> | Y  (74) |
| lspeed\_unit\_id | Link to ref\_ids table | CHAR(1) | Must be ‘M’ for metres/second or ‘K’ for knots | <lspeed\_unit\_id> | Y  (74) |
| branch\_intvl | Time interval (secs.) between branchline sets. | SmallInt |  | <branch\_intvl> | N |
| branch\_dist | Mainline distance between branchlines (m). | Decimal (4,1) |  | <branch\_dist> | Y  (76) |
| branch\_length | Length of branchline (m) (If all are of a consistent length, otherwise use next set of fields). | Decimal (4,1) |  | <branch\_length> | Y  (77) |
| vessel\_SET\_speed | Vessel setting Speed (Knots). | Decimal (5,1) |  | <vessel\_SET\_speed> | N |
| lightsticks | Number of lightsticks used | SmallInt |  | <lightsticks> | Y  (79) |
| TDRs | Number of Time Depth recorders used | SmallInt |  | <TDRs> | Y  (78) |
| branch\_0\_20 | Number of branchlines between successive floats that are < 20 m. | SmallInt |  | <branch\_0\_20> | N |
| branch\_20\_34 | Number of branchlines between successive floats that are 20-35 m. | SmallInt |  | <branch\_20\_34> | N |
| branch\_35\_50 | Number of branchlines between successive floats that are 35-50 m. | SmallInt |  | <branch\_35\_50> | N |
| branch\_50\_99 | Number of branchlines between successive floats that are > 50 m. | SmallInt |  | <branch\_50\_99> | N |
| SHARKLINE | Record the total number of shark lines (branch lines that have been hung directly from the floatline) for this set. | SmallInt |  | <SHARKLINE> | Y  (61) |
| tar\_sp\_code | Target Species id recorded on the form for this set (refer to the SPECIES table) | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <tar\_sp\_code> | Y  (80) |
| target\_tun\_yn | ADDITIONAL FLAG indication for MULTIPLE targeting | Bit |  | <target\_tun\_yn> | Y  (80) |
| target\_swo\_yn | ADDITIONAL FLAG indication for MULTIPLE targeting | Bit |  | <target\_swo\_yn> | Y  (80) |
| target\_skh\_yn | ADDITIONAL FLAG indication for MULTIPLE targeting | Bit |  | <target\_skh\_yn> | Y  (80) |
| setdetails | General notes on the setting procedures. Any comments relating to the setting strategy. For example has there been any specific targetting of shark in this set. | NText |  | <setdetails> | N |
| bait1\_sp\_code | Bait species id. # 1 | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <bait1\_sp\_code> | Y  (81) |
| bait2\_sp\_code | Bait species id. # 2 | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <bait2\_sp\_code> | Y  (81) |
| bait3\_sp\_code | Bait species id. # 3 | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <bait3\_sp\_code> | Y  (81) |
| bait4\_sp\_code | Bait species id. # 4 | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <bait4\_sp\_code> | Y  (81) |
| bait5\_sp\_code | Bait species id. # 5 | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–) | <bait5\_sp\_code> | Y  (81) |
| bait1\_w | Weight of bait species #1 used, (kg) | SmallInt |  | <bait1\_w> | N |
| bait2\_w | Weight of bait species #2 used, (kg) | SmallInt |  | <bait2\_w> | N |
| bait3\_w | Weight of bait species #3 used, (kg) | SmallInt |  | <bait3\_w> | N |
| bait4\_w | Weight of bait species #4 used, (kg) | SmallInt |  | <bait4\_w> | N |
| bait5\_w | Weight of bait species #5 used, (kg) | SmallInt |  | <bait5\_w> | N |
| bait1\_h | Hook number(s) in basket that Bait 1 was placed | NVarChar (25) | (Hook numbers separated by commas) | <bait1\_h> | N |
| bait2\_h | Hook number(s) in basket that Bait 2 was placed | NVarChar (25) | (Hook numbers separated by commas) | <bait2\_h> | N |
| bait3\_h | Hook number(s) in basket that Bait 3 was placed | NVarChar (25) | (Hook numbers separated by commas) | <bait3\_h> | N |
| bait4\_h | Hook number(s) in basket that Bait 4 was placed | NVarChar (25) | (Hook numbers separated by commas) | <bait4\_h> | N |
| bait5\_h | Hook number(s) in basket that Bait 5 was placed | NVarChar (25) | (Hook numbers separated by commas) | <bait5\_h> | N |
| bait1\_dyed\_yn | FLAG indication on dyed on bait #1 | SmallInt |  | <bait1\_dyed\_yn> | Y  (62) |
| bait2\_dyed\_yn | FLAG indication on dyed on bait #2 | SmallInt |  | <bait2\_dyed\_yn> | Y  (62) |
| bait3\_dyed\_yn | FLAG indication on dyed on bait #3 | SmallInt |  | <bait3\_dyed\_yn> | Y  (62) |
| bait4\_dyed\_yn | FLAG indication on dyed on bait #4 | SmallInt |  | <bait4\_dyed\_yn> | Y  (62) |
| bait5\_dyed\_yn | FLAG indication on dyed on bait #5 | SmallInt |  | <bait5\_dyed\_yn> | Y  (62) |
| tori\_LINES\_yn | FLAG indication on tori lines used | SmallInt |  | <tori\_LINEs\_yn> | Y  (58) |
| bird\_curtain\_yn | FLAG indication on side setting with bird curtain and weighted branch lines used | SmallInt |  | <bird\_curtain\_yn> | Y  (59) |
| uW\_chute\_yn | FLAG indication on deep setting line shooter used | SmallInt |  | <uW\_chute\_yn> | Y  (64) |
| MANAGEMENT\_OFFAL\_DISCHARge\_YN | FLAG indication on management offal discharge implemented | SmallINT |  | <M\_OD\_yn> | Y  (65) |
| hksjapan\_size | Japanese hook size | NVarChar (50) |  | <hksjapan\_size> | Y  (56, 57) |
| hksjapan\_perc | % of Japanese hook | TinyInt |  | <hksjapan\_perc> | N |
| hksjapan\_ors | Japanese hook original size | NVarChar (5) |  | <hksjapan\_ors> | N |
| hkscircle\_size | Circle hook size | NVarChar (50) |  | <hkscircle\_size> | Y  (56, 57) |
| hkscircle\_perc | % of Circle hook | TinyInt |  | <hkscircle\_perc> | N |
| hkscircle\_ors | Circle hook original size | NVarChar (5) |  | <hkscircle\_ors> | N |
| hksj\_size | J hook size | NVarChar (50) |  | <hksj\_size> | Y  (56, 57) |
| hksj\_perc | % of J hook size | TinyInt |  | <hksj\_perc> | N |
| hksj\_ors | J hook original size | NVarChar (5) |  | <hksj\_ors> | N |
| hksoth\_type | Other hook types description | NVarChar (50) |  | <hksoth\_type> | Y  (56, 57) |
| hksoth\_size | Other hook type size | NVarChar (50) |  | <hksoth\_size> | N |
| hksoth\_perc | % of Other hook types | TinyInt |  | <hksoth\_perc> | N |
| hksoth\_ors | Others types of hook original size | NVarChar (5) |  | <hksoth\_ors> | N |

## SET-HAUL LOG DATA (Date and time of start/set of haul are included in “set level data”)

| **LL\_SETHAULLOG** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  |  | <L\_SET\_ID> | Y |
| SETHAUL LOG IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME + LOG DATE + LOG TIME |  |  | <L\_SETHAULOG\_ID> | N |
| log\_date | | Date/TIME of log reading | [REFER TO APPENDIX A1](#_APPENDIX_A1_–) |  | <log\_date> | N |
| sethaul | | Status of gear at this logged date/time : Set (S) Haul (H), Soak (K) or Float retrieved (F) | Char (4) | Must be either ‘S’, ‘H’, ‘K’ or ‘F’ | <sethaul> | N |
| stend\_id | | Indicator for status of the SET-HAUL  83 – First log record for the SET (start of SET information)  84 – Last log record for the SET (end of SET information)  85 – First log record for the HAUL (start of HAUL information)  86 – Last log record for the HAUL (end of HAUL information)  91 – Float retrieval | Int | Must be 83, 84, 85, 86, 91 or NULL | <stend\_id> | N |
| lat | | Latitude (long format) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lat> | N |
| lon | | Longitude (long format) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) |  | <lon> | N |
| comments | | Comments | NText |  | <comments> | N |
| FLOAT\_ID | | Unique identifier for the Float retrieved | NVARCHAR(15) | Only used when Float retrieved (STEND\_ID = 91)  **E-Monitoring ONLY** | <FLOAT\_ID> | N |
| HK\_BT\_FLT | | Hooks between this float retrieved and the next float | SmallInt | Must be 1-60, or -1 for no information.  Only used when Float retrieved (STEND\_ID = 91)  **E-Monitoring ONLY** | <hk\_bt\_flt> | N |

## SET CATCH DATA

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **LL\_OBS\_CATCH**  **The observer must PROVIDE the following CATCH DETAILS for EACH FISHING HAUL for the period of the trip.** | | | | | | |
| **FIELD** | **Data Collection Instructions** | | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[13]](#footnote-13)\***  **(Field #)** |
| TRIP IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| SET IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME |  |  | <L\_SET\_ID> | Y |
| CATCH IDENTIFIER | | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + SET START DATE + SET START TIME + CATCH EVENT DATE + CATCH EVENT TIME |  |  | <L\_CATCH\_ID> | Y |
| hook\_no | | Hook number that the fish is caught on count hooks from the last float hauled on board to next float hauled on board. Hook number=99 represents catch on a hook hanging directly from the floatline. | SmallInt |  | <hook\_no> | Y  (85) |
| sp\_code | | Species code. | Char (3) | [REFER TO APPENDIX 8.](#_APPENDIX_A8_–)  Only shark species can have a FATE as ‘RFR’ and ‘DFR’. | <sp\_code> | Y  (86) |
| fate\_code | | FATE of this catch. This indicates whether it was RETAINED, DISCARDED or ESCAPED, and any specific processing. | Char (3) | [REFER TO APPENDIX 9](#_APPENDIX_A9_–)  Only shark species can have a FATE as ‘RFR’ and ‘DFR’. | <fate\_code> | Y  (91) |
| cond\_code | | CONDITION of this catch on LANDING. Relevant for the Species of Special Interest. | Char (2) | [REFER TO APPENDIX 10](#_APPENDIX_A10_–) | <cond\_code> | Y  (90) |
| cond\_REL\_code | | CONDITION of this catch on RELEASE/DISCARD. Relevant for the Species of Special Interest. | Char (2) | [REFER TO APPENDIX 10](#_APPENDIX_A10_–) | <cond\_REL\_code> | Y  (92) |
| len | | Length (cm). | SmallInt | Refer to SPECIES RANGE table for these species | <len> | Y  (87) |
| len\_code | | Length measurement code | Char (2) | [REFER TO APPENDIX 11](#_APPENDIX_A11_–) | <len\_code> | Y  (87) |
| wt | | Weight (kgs) – must be measured weight and not a visual estimate | Decimal (5,1) |  | <wt> | N |
| wt\_code | | Weight code. | Char (2) | [REFER TO APPENDIX 22](#_APPENDIX_A22_–) | <wt\_code> | N |
| sex\_code | | SEX of fish | Char (1) | [REFER TO APPENDEX 12](#_APPENDIX_A12_–) | <sex\_code> | Y  (89) |
| gstage\_CODE | | GONAD STAGE CODE | Char (1) | [REFER TO APPENDIX 23](#_APPENDIX_A23_–) | <gstage\_CODE> | N |
| comments | | Comments | NVarChar (40) |  | <comments> | N |
| lat | | Latitude (long format) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) | Position of each catch event **E-Monitoring ONLY** | <lat> | N |
| lon | | Longitude (long format) | [REFER TO APPENDIX A2](#_APPENDIX_A2_–) | Position of each catch event **E-Monitoring ONLY** | <lon> | N |

## SPECIES OF SPECIAL INTEREST DATA

(see [1.7 SPECIES OF SPECIAL INTEREST DATA](#_SPECIES_OF_SPECIAL))

## SPECIES OF SPECIAL INTEREST DETAILS DATA

(see [1.8 SPECIES OF SPECIAL INTEREST DETAIL DATA](#_SPECIES_OF_SPECIAL_2))

## TRIP MONITORING QUESTIONS

(see [1.11 TRIP MONITORING DATA](#_TRIP_MONITORING_QUESTIONS_1))

## TRIP MONITORING COMMENTS

(see [1.12 TRIP MONITORING COMMENTS](#_TRIP_MONITORING_COMMENTS_1))

## VESSEL/AIRCRAFT SIGHTINGS DATA

(see [1.13 VESSEL/AIRCRAFT SIGHTINGS](#_VESSEL/AIRCRAFT_SIGHTINGS_DATA))

## MARINE DEVICES DATA

(see [1.15 MARINE DEVICES DATA](#_MARINE_DEVICES_DATA))

## CREW DATA (INTEGRATE to TRIP LEVEL DATA)



## LONGLINE GEAR DATA

| **LL\_GEAR**  **PROVIDE information on the LONGLINE GEAR on the vessel at the trip level.** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD[[14]](#footnote-14)\***  **(Field #)** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | Y |
| LL GEAR IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <L\_GEAR\_ID> | Y |
| **SPECIAL GEAR ATTRIBUTES** | | | | | |
| wiretrace\_ans | Presence of wire trace (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <wiretrace\_ans> | Y  (50) |
| mlinehaul\_ans | Mainline hauler (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <mlinehaul\_ans> | Y  (51) |
| mlinehaul\_usage\_code | Link to ref\_usage table | Char (3) | [REFER TO APPENDIX 21](#_APPENDIX_A21_–) | <mlinehaul\_usage\_code> | N |
| mlinehaul\_comments | Comments on Mainline Hauler | NVarChar (50) |  | <mlinehaul\_comments> | N |
| blinehaul\_ans | Branchline hauler (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <blinehaul\_ans> | Y  (52) |
| blinehaul\_usage\_code | Link to ref\_usage table | Char (3) | [REFER TO APPENDIX 21](#_APPENDIX_A21_–) | <blinehaul\_usage\_code> | N |
| blinehaul\_comments | Comments on Branchline Hauler | NVarChar (50) |  | <blinehaul\_comments> | N |
| lshoot\_ans | Line shooter (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <lshoot\_ans> | Y  (53) |
| lshoot\_usage\_code | Link to ref\_usage table | Char (3) | [REFER TO APPENDIX 21](#_APPENDIX_A21_–) | <lshoot\_usage\_code> | N |
| lshoot\_comments | Comments on Line shooter | NVarChar (50) |  | <lshoot\_comments> | N |
| baitthr\_ans | Automatic bait thrower (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <baitthr\_ans> | Y  (54) |
| baitthr\_usage\_code | Link to ref\_usage table | Char (3) | [REFER TO APPENDIX 21](#_APPENDIX_A21_–) | <baitthr\_usage\_code> | N |
| baitthr\_comments | Comments on Automatic Bait thrower | NVarChar (50) |  | <baitthr\_comments> | N |
| branchatt\_ans | Automatic branchline attacher (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <branchatt\_ans> | Y  (55) |
| branchatt\_usage\_code | Link to ref\_usage table | Char (3) | [REFER TO APPENDIX 21](#_APPENDIX_A21_–) | <branchatt\_usage\_code> | N |
| branchatt\_comments | Comments on Automatic Branchline attacher | NVarChar (50) |  | <branchatt\_comments> | N |
| wEIGHTED BRANCH LIne\_ans | Presence of weight branch line (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <wBRANCH\_ans> | Y  (60) |
| Strategic offal disposal\_ans | Presence of strategic offal disposal (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <SODIS\_ans> | Y  (66) |
| wT\_Sca\_ans | Weighing scales (Y/N) | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <WT\_SCA\_ANS> | N |
| wT\_Sca\_usage\_code | Weighing scales USAGE | Char (3) | [REFER TO APPENDIX 21](#_APPENDIX_A21_–) | <WT\_SCA\_USAGE\_CODE> | N |
| wT\_sca\_comments | Comments on Automatic B Weighing scales | NVarChar (50) |  | <WT\_SCA\_COMMENTS> | N |
| **GENERAL GEAR ATTRIBUTES** | | | | | |
| mline\_comp | Composition of mainline | NText |  | <mline\_comp> | N |
| bline\_comp | Composition of branchlines | NText |  | <bline\_comp> | N |
| mline\_mat | Mainline material | NVarChar (15) |  | <mline\_mat> | Y  (46) |
| mline\_mat\_desc | Mainline material description | NVarChar (50) | Is it possible to combine with “MLINE\_MAT”? | <mline\_mat\_desc> | Y |
| mline\_len | Mainline length (nm) | Decimal (5,1) |  | <mline\_len> | Y  (47) |
| mline\_diam | Mainline diameter (mm) | Decimal (4,1) |  | <mline\_diam> | Y  (48) |
| bline\_mat1 | Composition of branchlines (Material #1) | NVarChar (40) |  | <bline\_mat1> | Y  (49) |
| bline\_mat1\_desc | Branchlines (Material #1) description | NVarChar (50) | Is it possible to combine with “BLINE\_MAT1”? | <bline\_mat1\_desc> | Y |
| bline\_mat2 | Composition of branchlines (Material #2) | NVarChar (40) |  | <bline\_mat2> | Y  (49) |
| bline\_mat2\_desc | Branchlines (Material #2) description | NVarChar (50) | Is it possible to combine with “BLINE\_MAT2”? | <bline\_mat2\_desc> | Y |
| bline\_mat3 | Composition of branchlines (Material #3) | NVarChar (40) |  | <bline\_mat3> | Y  (49) |
| bline\_mat3\_desc | Branchlines (Material #3) description | NVarChar (50) | Is it possible to combine with “BLINE\_MAT3”? | <bline\_mat3\_desc> | Y |
| **Vessel ATTRIBUTES** | | | | | |
| seawater\_ans | Refrigeration method - Sea water ? | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <seawater\_ans> | Y  (45) |
| blastfreezer\_ans | Refrigeration method - blast freezer ? | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <blastfreezer\_ans> | Y  (45) |
| ice\_ans | Refrigeration method - Ice ? | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <ice\_ans> | Y  (45) |
| chilledseawater\_ans | Refrigeration method - Chilled Sea water ? | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <chilledseawater\_ans> | Y  (45) |
| otherstorage\_ans | Refrigeration method - other ? | Char (1) | Must be ‘Y’, ‘N’ or ‘X’ (observer did not respond to this question) | <otherstorage\_ans> | Y  (45) |
| otherstorage\_desc | Refrigeration method – other description | NVarChar (50) |  | <otherstorage\_desc> | N |
| FOLLOWING FIELDS are moved to “SET LEVEL DATA” | | | | | |
| hksjapan\_size | Japanese hook size | NVarChar (50) |  | <hksjapan\_size> | Y |
| hksjapan\_perc | % of Japanese hook | TinyInt |  | <hksjapan\_perc> | N |
| hksjapan\_ors | Japanese hook original size | NVarChar (5) |  | <hksjapan\_ors> | Y |
| hkscircle\_size | Circle hook size | NVarChar (50) |  | <hkscircle\_size> | Y |
| hkscircle\_perc | % of Circle hook | TinyInt |  | <hkscircle\_perc> | N |
| hkscircle\_ors | Circle hook original size | NVarChar (5) |  | <hkscircle\_ors> | Y |
| hksj\_size | J hook size | NVarChar (50) |  | <hksj\_size> | Y |
| hksj\_perc | % of J hook size | TinyInt |  | <hksj\_perc> | N |
| hksj\_ors | J hook original size | NVarChar (5) |  | <hksj\_ors> | Y |
| hksoth\_type | Other hook types description | NVarChar (50) |  | <hksoth\_type> | Y |
| hksoth\_size | Other hook type size | NVarChar (50) |  | <hksoth\_size> | Y |
| hksoth\_perc | % of Other hook types | TinyInt |  | <hksoth\_perc> | N |
| hksoth\_ors | Others types of hook original size | NVarChar (5) |  | <hksoth\_ors> | Y |
| bline\_mat1\_diam | Branchlines (Material #1) diameter | Decimal (4,1) |  | <bline\_mat1\_diam> | N |
| bline\_mat2\_diam | Branchlines (Material #2) diameter | Decimal (4,1) |  | <bline\_mat2\_diam> | N |

## POLLUTION REPORT

(see [1.20 POLLUTION REPORT](#_OBSERVER_POLLUTION_REPORT) and [1.21 POLLUTION DETAILS](#_OBSERVER_POLLUTION_DETAILS))

## OBSERVER JOURNAL

(see [1.22 OBSERVER JOURNAL](#_OBSERVER_JOURNAL_1))

## LONGLINE TRIP REPORT

| **LL\_TRIP\_REPORT**  **PROVIDE descriptive information on the trip.**  **Refer to the relevant sections in** [**http://www.spc.int/OceanFish/en/publications/doc\_download/1318-2014-ll-trip-report**](http://www.spc.int/OceanFish/en/publications/doc_download/1318-2014-ll-trip-report) | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| TRIP IDENTIFIER | Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE |  |  | <OBSTRIP\_ID> | N |
| 1\_BACKGROUND | (Refer to relevant section in link above) | NText |  | <1\_BACKGROUND> | N |
| 2\_0\_CRUISE\_SUMMARY | (Refer to relevant section in link above) | NText |  | <2\_0\_CRUISE\_SUMMARY> | N |
| 2\_1\_Area\_FISHED | (Refer to relevant section in link above) | NText |  | <2\_1\_Area\_FISHED> | N |
| 2\_2\_END\_OF\_TRIP | (Refer to relevant section in link above) | NText |  | <2\_2\_END\_OF\_TRIP> | N |
| 3\_0\_DATA\_COLLECTED | (Refer to relevant section in link above) | NText |  | <3\_0\_DATA\_COLLECTED> | N |
| 3\_1\_OTHER\_DATA\_COLL | (Refer to relevant section in link above) | NText |  | <3\_1\_OTHER\_DATA\_COLL> | N |
| 4\_0\_COC | Refer to relevant section in link above) | NText |  | <4\_0\_COC> | N |
| 5\_1\_VESS\_INFO | Refer to relevant section in link above) | NText |  | <5\_1\_VESS\_INFO> | N |
| 5\_2\_CREW\_NATION | Refer to relevant section in link above) | NText |  | <5\_2\_CREW\_NATION> | N |
| 5\_2\_1\_PIC | Refer to relevant section in link above) | NText |  | <5\_2\_1\_PIC> | N |
| 5\_3\_ELEC | Refer to relevant section in link above) | NText |  | <5\_3\_ELEC> | N |
| 5\_3\_1\_RADIO\_BUOYS | Refer to relevant section in link above) | NText |  | <5\_3\_1\_RADIO\_BUOYS> | N |
| 5\_4\_FISHING\_GEAR | Refer to relevant section in link above) | NText |  | <5\_4\_FISHING\_GEAR> | N |
| 5\_4\_1\_MAINLINE | Refer to relevant section in link above) | NText |  | <5\_4\_1\_MAINLINE> | N |
| 5\_4\_2\_BRANCHLINES | Refer to relevant section in link above) | NText |  | <5\_4\_2\_BRANCHLINES> | N |
| 5\_4\_3\_FLOATLINES | Refer to relevant section in link above) | NText |  | <5\_4\_3\_FLOATLINES> | N |
| 5\_4\_4\_bline\_wts | Refer to relevant section in link above) | NText |  | <5\_4\_4\_bline\_wts> | N |
| 5\_4\_5\_FISH\_HOOKS | Refer to relevant section in link above) | NText |  | <5\_4\_5\_FISH\_HOOKS> | N |
| 5\_5\_safety\_eq | Refer to relevant section in link above) | NText |  | <5\_5\_safety\_eq> | N |
| 5\_6\_REGRIG | Refer to relevant section in link above) | NText |  | <5\_6\_REGRIG> | N |
| 5\_7\_OTHER\_GEAR | Refer to relevant section in link above) | NText |  | <5\_7\_OTHER\_GEAR> | N |
| 6\_0\_fISH\_STRATEGY | Refer to relevant section in link above) | NText |  | <6\_0\_fISH\_STRATEGY> | N |
| 6\_1\_FISHERY\_INFO | Refer to relevant section in link above) | NText |  | <6\_1\_FISHERY\_INFO> | N |
| 6\_2\_OCEAN\_fEATURES | Refer to relevant section in link above) | NText |  | <6\_2\_OCEAN\_fEATURES> | N |
| 6\_3\_set\_hAUL | Refer to relevant section in link above) | NText |  | <6\_3\_set\_hAUL> | N |
| 6\_4\_TARGET\_DEPTH | Refer to relevant section in link above) | NText |  | <6\_4\_TARGET\_DEPTH> | N |
| 6\_5\_BAITING | Refer to relevant section in link above) | NText |  | <6\_5\_BAITING> | N |
| 6\_6\_MITIGATION | Refer to relevant section in link above) | NText |  | <6\_6\_MITIGATION> | N |
| 6\_6\_1\_FISH\_OFFAL | Refer to relevant section in link above) | NText |  | <6\_6\_1\_FISH\_OFFAL> | N |
| 6\_7\_hAUL\_PROCESS | Refer to relevant section in link above) | NText |  | <6\_7\_hAUL\_PROCESS> | N |
| 6\_8\_UNUSUAL\_SET | Refer to relevant section in link above) | NText |  | <6\_8\_UNUSUAL\_SET> | N |
| 6\_9\_CHANGES\_SETS | Refer to relevant section in link above) | NText |  | <6\_9\_CHANGES\_SETS> | N |
| 7\_1\_WEATHER | Refer to relevant section in link above) | NText |  | <7\_1\_WEATHER> | N |
| 7\_2\_sEA\_cond | Refer to relevant section in link above) | NText |  | <7\_2\_sEA\_cond> | N |
| 7\_3\_MOOn\_phase | Refer to relevant section in link above) | NText |  | <7\_3\_MOOn\_phase> | N |
| 8\_1\_tARGET\_cATCH | Refer to relevant section in link above) | NText |  | <8\_1\_tARGET\_cATCH> | N |
| 8\_1\_1\_tARGET\_pROC | Refer to relevant section in link above) | NText |  | <8\_1\_1\_tARGET\_pROC> | N |
| 8\_1\_2\_Target \_disc | Refer to relevant section in link above) | NText |  | <8\_1\_2\_Target \_disc> | N |
| 8\_1\_3\_Target\_damage | Refer to relevant section in link above) | NText |  | <8\_1\_3\_Target\_damage> | N |
| 8\_2\_1\_Other\_tun\_bill | Refer to relevant section in link above) | NText |  | <8\_2\_1\_Other\_tun\_bill> | N |
| 8\_2\_2\_Sharks\_rays | Refer to relevant section in link above) | NText |  | <8\_2\_2\_Sharks\_rays> | N |
| 8\_2\_3\_Other\_by-catch | Refer to relevant section in link above) | NText |  | <8\_2\_3\_Other\_by-catch> | N |
| 8\_3\_Unspec\_sp\_codes | Refer to relevant section in link above) | NText |  | <8\_3\_Unspec\_sp\_codes> | N |
| 8\_4\_1\_Ssi\_land | Refer to relevant section in link above) | NText |  | <8\_4\_1\_Ssi\_land> | N |
| 8\_4\_2\_Ssi\_interact | Refer to relevant section in link above) | NText |  | <8\_4\_2\_Ssi\_interact> | N |
| 8\_4\_3\_Ssi\_mam | Refer to relevant section in link above) | NText |  | <8\_4\_3\_Ssi\_mam> | N |
| 8\_4\_4\_Ssi\_sight | Refer to relevant section in link above) | NText |  | <8\_4\_4\_Ssi\_sight> | N |
| 9\_0\_TRANS | Refer to relevant section in link above) | NText |  | <9\_0\_TRANS> | N |
| 10\_1\_Tags | Refer to relevant section in link above) | NText |  | <10\_1\_Tags> | N |
| 10\_2\_Stomach | Refer to relevant section in link above) | NText |  | <10\_2\_Stomach> | N |
| 10\_3\_Other | Refer to relevant section in link above) | NText |  | <10\_3\_Other> | N |
| 11\_0\_ TRIP\_MON | Refer to relevant section in link above) | NText |  | <11\_0\_ TRIP\_MON> | N |
| 11\_1\_Clarify | Refer to relevant section in link above) | NText |  | <11\_1\_Clarify> | N |
| 11\_2\_Recommend | Refer to relevant section in link above) | NText |  | <11\_2\_Recommend> | N |
| 11\_3\_Crew\_info | Refer to relevant section in link above) | NText |  | <11\_3\_Crew\_info> | N |
| 11\_4\_Medical | Refer to relevant section in link above) | NText |  | <11\_4\_Medical> | N |
| 11\_5\_Photos | Refer to relevant section in link above) | NText |  | <11\_5\_Photos> | N |
| 11\_6\_other info | Refer to relevant section in link above) | NText |  | <11\_6\_other info> | N |
| 12\_0\_VESS \_DATA | Refer to relevant section in link above) | NText |  | <12\_0\_VESS \_DATA> | N |
| 13\_0\_GENERAL | Refer to relevant section in link above) | NText |  | <13\_0\_GENERAL> | N |
| 14\_0\_PROBs | Refer to relevant section in link above) | NText |  | <14\_0\_PROBs> | N |
| 14\_1\_Form\_ch\_recs | Refer to relevant section in link above) | NText |  | <14\_1\_Form\_ch\_recs> | N |
| 15\_0\_CONCL | Refer to relevant section in link above) | NText |  | <15\_0\_CONCL> | N |
| 16\_0\_ACKs | Refer to relevant section in link above) | NText |  | <16\_0\_ACKs> | N |

# APPENDICES

## APPENDIX A1 – DATE/TIME FORMAT

The date and time of the start of set and the time of end of set should be GMT/UTC

[YYYY]-[MM]-[DD]T[HH]:[MM]Z for fields designated as UTC date/time

[YYYY]-[MM]-[DD]T[HH]:[MM] for fields designated as LOCAL date/time

## APPENDIX A2 – POSITION/COORDINATE FORMAT

The position should be reported in units of at least minutes of latitude and longitude

LATITUDE +/- DDMM.MMM

LONGITUDE +/- DDDMM.MMM

## APPENDIX A3 – PORT LOCATION CODES

The PORT LOCATION Codes must adhere to the UN/LOCODE standard UPPERCASE CHAR(5)

United Nations - Code for Trade and Transport Locations (UN/LOCODE), if applicable – see <http://www.unece.org/cefact/locode/service/location>

## APPENDIX A4 – VESSEL IDENTIFICATION

The attributes to be provided for the VESSEL needs to be consistent with several VESSEL registers at the global and regional level. The most important are the proposed IMO/UVI standard vessel identifier (UVI), the WCPFC vessel register and the FFA Vessel register.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FIELD** | **Data Collection Instructions** | **Field format notes** | **Instruction** | **XML TAG** | **WCPFC**  **FIELD** |
| VESSEL NAME | PROVIDE the VESSEL attributes which should be consistent with the attributes stored in the WCPFC and FFA Regional Vessel Registers | CHAR(30)  UPPER CASE | Must be consistent with the WCPFC and FFA Vessel Registers | <VesselName> | Y |
| COUNTRY OF VESSEL REGISTRATION | CHAR(2)  ISO 3166-1 alpha-2 two-letter country code  UPPER CASE | ISO 3166-1 alpha-2 two-letter country code  Must be consistent with the WCPFC and FFA Vessel Registers  Country of registration is distinct from the chartering nation, where relevant | <CountryReg> | Y |
| VESSEL REGISTRATION NUMBER | CHAR(20)  UPPER CASE | Must be consistent with the WCPFC and FFA Vessel Registers | <RegNo> | Y |
| FFA VESSEL REGISTER NUMBER | INTEGER(5) | Must be consistent with the FFA Vessel Register | <FFAVID> | N |
| WCPFC RFV VID | INTEGER(10) | Must be consistent with the WCPFC RFV | <WIN> | Y |
| UNIVERSAL VESSEL IDENTIFIER (UVI) | INTEGER(10) | Must be consistent with the WCPFC and FFA Vessel Registers | <IMO\_UVI> | N |
| VESSEL INTERNATIONAL CALLSIGN | CHAR(10)  UPPER CASE | Must be consistent with the WCPFC and FFA Vessel Registers | <IRCS> | Y |

## APPENDIX A5 – PURSE SEINE OBSERVER ACTIVITY CODES

|  |  |  |  |
| --- | --- | --- | --- |
| **S\_ACTIV\_ID** | **Description** | **FAD reference**  **(to record BEACON field)** | **FORM Code version (old)** |
| 1 | Set | YES | 1 |
| 2 | Searching |  | 2 |
| 3 | Transit |  | 3 |
| 4 | No fishing - Breakdown |  | 4 |
| 5 | No fishing - Bad weather |  | 5 |
| 6 | In port - please specify |  | 6 |
| 7 | Net cleaning set |  | 7 |
| 8 | Investigate free school |  | 8 |
| 9 | Investigate floating object | YES | 9 |
| 10 | Deploy - raft, FAD or payao | YES | 10D |
| 11 | Retrieve - raft, FAD or payao | YES | 10R |
| 12 | No fishing - Drifting at day's end |  | 11 |
| 13 | No fishing - Drifting with floating object | YES | 12 |
| 14 | No fishing - Other reason (specify) |  | 13 |
| 15 | Drifting -With fish aggregating lights | YES | 14 |
| 16 | Retrieve radio buoy | YES | 15R |
| 17 | Deploy radio buoy | YES | 15D |
| 18 | Transhipping or bunkering |  | 16 |
| 19 | Servicing FAD or floating object | YES | 17 |
| 20 | *Helicoptor takes off to search* |  | *H1* |
| 21 | *Helicopter returned from search* |  | *H2* |

## APPENDIX A6 – PURSE SEINE TUNA SCHOOL ASSOCIATION CODES

|  |  |  |
| --- | --- | --- |
| **S\_ACTIV\_ID** | **Description** | **SCHOOL TYPE CATEGORY** |
| 1 | Unassociated (free school) | Unassociated |
| 2 | Feeding on Baitfish (free school) | Unassociated |
| 3 | Drifting log, debris or dead animal | Associated |
| 4 | Drifting raft, FAD or payao | Associated |
| 5 | Anchored raft, FAD or payao | Associated |
|
| 6 | Live whale | Associated |
| 7 | Live whale shark | Associated |
| 8 | Other (please specify) |  |
| 9 | No tuna associated |  |

## APPENDIX A7 – PURSE SEINE TUNA SCHOOL DETECTION CODES

|  |  |
| --- | --- |
| **DETON \_ID** | **Description** |
| 1 | Seen from vessel |
| 2 | Seen from helicopter;  Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on. |
| 3 | Marked with beacon |
| 4 | Bird radar |
| 5 | Sonar / depth sounder |
| 6 | Info. from other vessel |
| 7 | Anchored FAD / payao (recorded) |

## APPENDIX A8 – SPECIES CODES

Refer to the FAO three-letter species codes:

<http://www.fao.org/fishery/collection/asfis/en>

## APPENDIX A9 – OBSERVER FATE CODES

|  |  |
| --- | --- |
| FATE CODE | DESCRIPTION |
| DCF | Discarded - Line cut or Other |
| DDL | Discarded - Difficult to land |
| DFR | Discarded - fins removed and trunk discarded |
| DFW | Discarded - Discarded from well |
| DGD | Discarded - Gear damage |
| DNS | Discarded - No space in freezer |
| DOR | Discarded - other reason (specify) |
| DPA | Discarded - Protected species - Alive |
| DPD | Discarded - Protected species - Dead |
| DPQ | Discarded - poor quality |
| DPS | Discarded - protected species (e.g. turtles) |
| DPU | Discarded - Protected Species - Condition unknown |
| DSD | Discarded - Shark damage |
| DSO | Discarded - rejected (struck off before landing) |
| DTS | Discarded - too small |
| DUS | Discarded - Undesirable species |
| DVF | Discarded - Vessel fully loaded |
| DWD | Discarded - Whale damage |
| ESC | Escaped |
| RCC | Retained - Crew Consumption |
| RFL | Retained - Filleted |
| RFR | Retained - fins removed and trunk retained |
| RGG | Retained - gilled and gutted (retained for sale) |
| RGO | Retained - gutted only |
| RGT | Retained - gilled gutted and tailed (for sale) |
| RHG | Retained - headed and gutted (Marlin) |
| RHT | Retained - Headed, gutted and tailed |
| RMD | Retained - fins removed/trunk retained (MANDATORY) |
| ROR | Retained - other reason (specify) |
| RPT | Retained - partial (e.g. fillet, loin) |
| RSD | Retained - Shark damage |
| RTL | Retained - Tailed |
| RWD | Retained - Whale Damage |
| RWG | Retained - Winged |
| RWW | Retained - whole |
| UUU | Unknown - not observed |

## APPENDIX A10 – OBSERVER CONDITION CODES

|  |  |
| --- | --- |
| CONDITION CODE | Description |
| A0 | Alive but unable to describe condition |
| A1 | Alive and healthy |
| A2 | Alive, but injured or distressed |
| A3 | Alive, but unlikely to live |
| D | Dead |
| U | Condition, unknown |

## APPENDIX A11 – LENGTH CODES

|  |  |
| --- | --- |
| Length Code | Description |
| AN | Anal fin length |
| BL | Bill to fork in tail |
| CC | Curved Carapace Length |
| CK | Cleithrum to anterior base caudal keel |
| CL | carapace length (turtles) |
| CW | Carapace width |
| CX | Cleithrum to caudal fork |
| EO | Posterior eye orbital to caudal fork |
| EV | Posterior eye orbital to vent |
| FF | 1st dorsal to fork in tail |
| FN | Weight of all fins (sharks) |
| FS | 1st dorsal to 2nd dorsal |
| FW | Fillets weight |
| GF | Gilled, gutted, headed, flaps removed |
| GG | Gilled and gutted weight |
| GH | Gutted and headed weight |
| GI | Girth |
| GO | Gutted only (gills left in) |
| GT | Gilled, gutted and tailed |
| GX | Gutted, headed and tailed |
| LF | lower jaw to fork in tail |
| NM | not measured |
| OW | Observer's Estimate |
| PF | pectoral fin to fork in tail |
| PS | Pectoral fin to 2nd dorsal |
| SC | Straight Carapace Length |
| SL | Tip of snout to end of caudal peduncle |
| TH | Body Thickness (Width) |
| TL | tip of snout to end of tail |
| TW | total width (tip of wings - rays) |
| UF | upper jaw to fork in tail |
| US | Upper jaw to 2nd dorsal fin |
| WW | Whole weight |

## APPENDIX A12 – SEX CODES

|  |  |
| --- | --- |
| Sex Code | Description |
| F | Female |
| I | Indeterminate (checked but unsure) |
| M | Male |
| U | Unknown (not checked) |

## APPENDIX A13 – Vessel activity (SSI interaction) codes

|  |  |
| --- | --- |
| Activity Code for interaction | Description |
| 1 | Setting |
| 2 | Hauling |
| 3 | Searching |
| 4 | Transiting |
| 5 | Other |

## APPENDIX A14 – SIZE and SPECIES COMPOSIION SAMPLE PROTOCOL

|  |  |
| --- | --- |
| Sample Type | Description |
| R | Random (GRAB) sample |
| S | SPILL sample |
| B | Bycatch only sampling |
| F | Small-fish only sampling |
| O | Other type of sampling protocol (please specify) |

## APPENDIX A15 – MEASURING INSTRUMENTS Codes

|  |  |
| --- | --- |
| Measure Code | Description |
| B | Board |
| C | Calliper - Aluminium |
| E | Eye |
| R | Ruler |
| T | Tape |
| U | Unknown |
| W | Calliper - Wood |

## APPENDIX A16 – TRIP MONITORING QUESTION Codes

|  |  |  |
| --- | --- | --- |
| QUESTION CODE | Description | WCPFC Question |
| RS-A | Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interefere with observers in the performance of their duties | Y |
| RS-B | Request that an event not be reported by the observer | Y |
| RS-C | Mistreat other crew | N |
| RS-D | Did operator fail to provide observer with food, accommodation, etc. | Y |
| NR-A | Fish in areas where the vessel is not permitted to fish | Y |
| NR-B | Target species other than those they are licenced to target | N |
| NR-C | Use a fishing method other than the method the vessel was designed or licensed | Y |
| NR-D | Not display or present a valid (and current) licence document onboard | N |
| NR-E | Transfer or transship fish from or to another vessel | Y |
| NR-F | Was involved in bunkering activities | N |
| NR-G | Fail to stow fishing gear when entering areas where vessel is not authorised to fish | Y |
| WC-A | Fail to comply with any Commission Conservation and Management Measures (CMMs) | Y |
| WC-B | High-grade the catch | Y |
| WC-C | Fish on FAD during FAD Closure | N |
| LP-A | Inaccurately record vessel position on vessel log sheets for sets, hauling and catch | Y |
| LP-B | Fail to report vessel positions to countries where required | Y |
| LC-A | Inaccurately record retained 'Target Species' in the Vessel logs [or weekly reports] | Y |
| LC-B | Inaccurately record 'Target Species' Discards | Y |
| LC-C | Record target species inaccurately [eg. combine bigeye/yellowfin/skipjack catch] | Y |
| LC-D | Not record bycatch discards | N |
| LC-E | Inaccurately record retained bycatch Species | Y |
| LC-F | Inaccurately record discarded bycatch species | Y |
| SI-A | Land on deck Species of Special Interest (SSIs) | N |
| SI-B | Interact (not land) with SSIs | Y |
| PN-A | Dispose of any metals, plastics, chemicals or old fishing gear | Y |
| PN-B | Discharge any oil | Y |
| PN-C | Lose any fishing gear | Y |
| PN-D | Abandon any fishing gear | Y |
| PN-E | Fail to report any abandoned gear | Y |
| SS-A | Fail to monitor international safety frequencies | Y |
| SS-B | Carry out-of-date safety equipment | N |

## APPENDIX A17 – VESSEL / AIRCRAFT SIGHTINGS Codes

|  |  |
| --- | --- |
| CODE | Description |
| 1 | Single Purse Seine |
| 2 | Longline |
| 3 | Pole and line |
| 4 | Mothership |
| 5 | Troll |
| 6 | Net Boat |
| 7 | Bunker |
| 8 | Search, Anchor or light boat |
| 9 | Fish Carrier |
| 10 | Trawler |
| 11 | Light Aircraft |
| 12 | Helicopter |
| 13 | Other |

## APPENDIX A18 – ACTION Codes

|  |  |  |
| --- | --- | --- |
| Action Codes | Description | FORM Used |
| AG | Aground | GEN6 |
| BG | Bunkering (transfer of fuel), vessel observer is on is GIVING | GEN1, GEN6 |
| BR | Bunkering (transfer of fuel), vessel observer is on is RECEIVING | GEN1, GEN6 |
| CR | Retained from a set solely because of catch-retention rules | PS5 |
| DF | Dumping of fish | GEN1 |
| DS | Discarded into the sea | PS5 |
| FI | Fishing | GEN1, GEN6 |
| FO | Fish On-board | PS5 |
| FS | From set | PS5 |
| NF | Not fishing | GEN1 |
| OG | Other, vessel observer is on is GIVING | GEN1 |
| OR | Other, vessel observer is on is RECEIVING | GEN1 |
| PF | Possibly fishing | GEN1 |
| SG | Set sharing, vessel observer is on is GIVING | GEN1 |
| SR | Set sharing, vessel observer is on is RECEIVING | GEN1,PS5 |
| TG | Transferring fish between vessels, vessel observer is on is GIVING | GEN1,PS5, GEN6 |
| TR | Transferring fish between vessels, vessel observer is on is RECEIVING | GEN1,PS5, GEN6 |
| UL | Unloaded at cannery or cool store | PS5 |
| WT | Transferred between wells | PS5 |

GEN1 – Vessel / Aircraft sightings

GEN6 – Pollution Report

PS-5 – Purse seine Well transfer

## APPENDIX A19 – Purse seine CREW JOB Codes

|  |  |
| --- | --- |
| CODE | Description |
| 1 | Captain |
| 2 | Navigator/Master |
| 3 | Mate |
| 4 | Chief Engineer |
| 5 | Assistant Engineer |
| 6 | Deck Boss |
| 7 | Cook |
| 8 | Helicopter pilot |
| 9 | Skiff Man |
| 10 | Winch Man |
| 11 | Helicopter Mechanic |
| 12 | Crew |
| 13 | Navigator |
| 14 | Fishing Master |
| 15 | Radio Operator |
| 16 | Translator |

## APPENDIX A20 – MARINE DEVICES Codes

|  |  |  |  |
| --- | --- | --- | --- |
| Code | Description | WCPFC FIELD | GEAR LIST CODES |
| 1 | BATHYTHERMOGRAPH MBT | YES |  |
| 2 | BIRD RADAR | YES | SP |
| 3 | CHART PLOTTER | YES | LSP |
| 4 | DEPTH SOUNDER | YES | LSP |
| 5 | DOPPLER CURRENT MONITOR | YES |  |
| 6 | SATELLITE BUOY | YES | S |
| 7 | FISHERY INFORMATION SERVICES | YES | LSP |
| 8 | GPS | YES | LSP |
| 9 | NAVIGATIONAL RADAR #1 | YES | LP |
| 10 | RADIO BUOYS - CALL-UP | YES | LSP |
| 11 | RADIO BUOYS - NON CALL-UP | YES | LSP |
| 12 | RADIO BEACON DIRECTION FINDER | YES | LSP |
| 13 | SATELLITE - HF TELEX | YES |  |
| 14 | SEA SURFACE TEMP. GAUGE | YES | LP |
| 15 | SONAR | YES | LSP |
| 16 | HF RADIO TELEPHONE | YES |  |
| 17 | SMART-LINK PHONE | YES |  |
| 18 | TRACK PLOTTER | YES | LSP |
| 19 | Vessel Monitoring System (VMS) | YES | LSP |
| 20 | WEATHER FACSIMILE | YES | LP |
| 21 | WEATHER SATELLITE MONITOR | YES |  |
| 22 | NET SOUNDER |  | LSP |
| 23 | BINOCULARS |  | P |
| 24 | ECHO SOUNDING BUOY |  | S |
| 25 | EPIRB |  |  |

## APPENDIX A21 – DEVICE USAGE codes

|  |  |
| --- | --- |
| Code | Description |
|  | Not mentioned |
| ALL | used all the time for fishing |
| BRO | broken now but used normally |
| NA | Not applicable / Not filled |
| NOL | no longer ever used |
| OIF | used only in transit |
| RAR | used rarely |
| SIF | used often but only in fishing |
| TRA | used all the time |

## APPENDIX A22 – WEIGHT MEASUREMENT codes

|  |  |
| --- | --- |
| Weight measurement code | Description |
| CW | Captain's Estimate |
| FN | Weight of all fins (sharks) |
| FW | Fillets weight |
| GF | Gilled, gutted, headed, flaps removed |
| GG | Gilled and gutted |
| GH | Gutted and headed |
| GO | Gutted only (gills left in) |
| GT | Gilled, gutted and tailed |
| GX | Gutted, headed and tailed |
| NM | Not measured |
| OW | Observer's Estimate |
| TW | Trunk weight |
| WW | Whole weight |

## APPENDIX A23 – GONAD STAGE codes

|  |  |  |
| --- | --- | --- |
| Gonad stage code | Short description | Description |
| N | No information | No information |
| I | Immature | Ovary small and slender. Cross-section round |
| E | Early Maturing | Enlarged, pale yellow ovaries. Ova not visible. |
| L | Late Maturing | Enlarged, turgid, orange-yellow ovaries. Ova opaque |
| M | Mature | Enlarged, richly vascular, orange ovaries, losing turgidity. Ova translucent. |
| R | Ripe | Greatly enlarged ovaries, not turgid. Ova easily dislodged and extruded by pressure. |
| S | Spent | Flaccid, vascular ovaries. Most ova gone. Often dark orange-red coloration. |
| R | Recovering | Vascular ovaries. Next batch of ova developing. |

## APPENDIX A24 – FAD ORIGIN codes

|  |  |
| --- | --- |
| FAD ORIGIN CODE | Description |
| 1 | Your vessel deployed this trip |
| 2 | Your vessel deployed previous trip |
| 3 | Other vessel (owner consent) |
| 4 | Other vessel (no owner consent) |
| 5 | Other vessel (consent unknown) |
| 6 | Drifting and foudn by your vessel |
| 7 | Deployed by FAD auxillary vessel |
| 8 | Origin unknown |
| 9 | Other origin |

## APPENDIX A25 – FAD DETECTION codes

|  |  |
| --- | --- |
| FAD DETECTION CODE | Description |
| 1 | Seen from Vessel (no other method) |
| 2 | Seen from Helicopter |
| 3 | Marked with Radio beacon |
| 4 | Bird Radar |
| 6 | Info. from other vessel |
| 7 | Anchored (GPS) |
| 8 | Marked with Satellite Beacon |
| 9 | Navigation Radar |
| 10 | Lights |
| 11 | Flock of Birds sighted from vessel |
| 12 | Other (please specify) |
| 13 | Vessel deploying FAD (not detected) |

## APPENDIX A26 – FAD MATERIAL codes

|  |  |
| --- | --- |
| FAD MATERIAL CODE | Description |
| 1 | Logs, Trees or debris tied together |
| 2 | Timber/planks/pallets/spools |
| 3 | PVC or Plastic tubing |
| 4 | Plastic drums |
| 5 | Plastic Sheeting |
| 6 | Metal Drums (i.e. 44 gallon) |
| 7 | Philippines design drum FAD |
| 8 | Bamboo/Cane |
| 9 | Floats/Corks |
| 10 | Unknown (describe) |
| 11 | Chain, cable rings, weights |
| 12 | Cord/rope |
| 13 | Netting hanging underneath FAD |
| 14 | Bait containers |
| 15 | Sacking/bagging |
| 16 | Coconut fronds/tree branches |
| 17 | Other (describe) |

## APPENDIX A27 – FAD TYPE codes

|  |  |
| --- | --- |
| FAD TYPE CODE | Description |
| 1 | Man made object (Drifting FAD) |
| 2 | Man made object (Non FAD) |
| 3 | Tree or log (natural, free floating) |
| 4 | Tree or logs (converted into FAD) |
| 5 | Debris (flotsam bunched together) |
| 6 | Dead Animal (specify; i.e. whale, horse, etc.) |
| 7 | Anchored Raft, FAD, or Payao |
| 8 | Anchored Tree or Logs |
| 9 | Other (please specify) |
| 10 | Man made object (Drifting FAD)-changed |

## APPENDIX A28 – POLLUTION GEAR codes

|  |  |
| --- | --- |
| POLLUTION GEAR CODE | DESCRIPTION |
| 1 | Lost during fishing |
| 2 | Abandoned |
| 3 | Dumped |

## APPENDIX A29 – POLLUTION MATERIALS codes

|  |  |
| --- | --- |
| POLUTION MATERIALS CODES | DESCRIPTION |
| 1 | Plastics |
| 2 | Metals |
| 3 | Waste Oils |
| 4 | Chemicals |
| 5 | Old fishing gear |
| 6 | General garbage |

## APPENDIX A30 – POLLUTION SOURCE codes

|  |  |
| --- | --- |
| POLLUTION SOURCE CODES | DESCRIPTION |
| 1 | Vessel Aground/Collision |
| 2 | Vessel at Anchor/Bearth |
| 3 | Vessel Underway |
| 4 | Land Based Source |
| 5 | Other |

## APPENDIX A31 – POLLUTION TYPE codes

|  |  |
| --- | --- |
| POLLUTION TYPE CODES | DESCRIPTION |
| 1 | Waste dumped overboard |
| 2 | Oil splillages and leakages |
| 3 | Abandoned or Lost Fishing Gear |

## APPENDIX A32 – SPECIES INTERACTION CODES

|  |  |
| --- | --- |
| CONDITION CODE | Description |
| G01 | Entangled |
| G02 | Hooked externally |
| G03 | Hooked internally |
| G04 | Hooked in mouth (SSI & Sharks) |
| G05 | Hooked deeply – throat stomach (SSI & Sharks) |
| G06 | Hooked unknown |

1. The minimum standard WCPFC Regional Observer programme (ROP) data fields for purse seine data are found in the “WCPFC ROP Minimum Standard Data Fields & Instructions” <http://www.wcpfc.int/doc/table-rop-data-fields-including-instructions> [↑](#footnote-ref-1)
2. In addition to the minimum WCPFC ROP data fields, instructions for observer data collection in the WCPFC Area are available with the regional standard observer data collection forms at <http://www.spc.int/oceanfish/en/data-collection/241-data-collection-forms>, general information/instruction for observers at <http://www.spc.int/OceanFish/en/ofpsection/fisheries-monitoring/observers> and <http://www.spc.int/OceanFish/en/certification-and-training-standards>. [↑](#footnote-ref-2)
3. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-3)
4. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-4)
5. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-5)
6. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-6)
7. [↑](#footnote-ref-7)
8. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-8)
9. \* WCPFC ROP Minimum Standards Data Fields [↑](#footnote-ref-9)
10. \* WCPFC ROP Minimum Standards Data Fields [↑](#footnote-ref-10)
11. \* WCPFC ROP Minimum Standards Data Fields [↑](#footnote-ref-11)
12. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-12)
13. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-13)
14. \* Field listed in the “WCPFC ROP Minimum Standards Data Fields” [↑](#footnote-ref-14)