

TECHNICAL AND COMPLIANCE COMMITTEE

Thirteenth Regular Session

27 September – 3 October 2017 Pohnpei, Federated States of Micronesia

DRAFT STANDARDS FOR THE E-REPORTING OF OBSERVER DATA

WCPFC-TCC13-2017-14 15 September 2017

Paper by the Secretariat and SPC-OFP

Purpose

1. This paper presents for TCC13's consideration the latest version of the draft standards for the E-reporting of observer data.

Background

2. At WCPFC13 the Commission adopted *the standards, specifications and procedures for Electronic Reporting, which presently include E-reporting standards for operational catch and effort data* (WCPFC13 Summary Report paragraph 584 and Attachment T). It was intended that as additional E-reporting standards are adopted by the Commission, they would be incorporated as new attachments within the E-reporting standard, specifications and procedures. Appropriate amendments would subsequently be made to the cover document for the E-Reporting SSPs in WCPFC13 Summary Report Attachment T. The Commission also agreed that the draft E-reporting standards for observer data should continue to be revised based on comments provided by CCMs in 2017.

Draft E-reporting standards for observer data

- 3. These standards have been reviewed on several occasions by CCMs during 2016..
- 4. In the lead-up to WCPFC13, only two CCMs indicated the observer data standards required further modification and these modifications were discussed and clarified in the fringes of WCPFC13. Unfortunately, there was insufficient time during WCPFC13 to complete and review the latest version of the observer data standards which were finalised after WCPFC13.
- 5. SC13 recommended that the latest draft version of the WCPFC E-Reporting observer data standards be forwarded to WCPFC14 for adoption.

6. The latest version of the Electronic Reporting Standards for Observer Data is attached as **Attachment 1**.

Recommendation

7. TCC13 is invited to consider the Electronic Reporting Standards for Observer Data and recommend as appropriate to WCPFC14.

Western and Central Pacific Fisheries Commission (WCPFC)

E-REPORTING STANDARD DATA FIELDS

OPERATIONAL OBSERVER DATA

9th December 2016

CURRENT VERSION:	2.60
DATE:	15 th December 2016
STATUS:	Draft – yet to be approved

Version	Date	Approved by	Brief Description
Number	Approved		
2.60	December 2016	ТВА	 The changes suggested by Japan and Chinese Taipei immediately before and during WCFPC13 (Thirteenth Regular Session of the Commission, December 2016, Nadi, Fiji), include: Further modifications of the description of data fields to be consistent with the descriptions in the WCPFC ROP minimum data fields, where relevant, including. Inclusion of IMO number as a required vessel attribute field Clarification that Freezer type is included and reported each trip Added a new field to align with WCPFC ROP standards for purse seine retained and discarded catch (instead of more
			detailed FATE code)
			 Clarified the inclusion of WCPFC ROP standard fields for Observer Trip Monitoring
			 Clarification and modifications to align the WCPFC ROP standard fields for FAD data fields
2.50	November 2016	Ongoing update only	The substantive changes suggested by several CCMs who reviewed the documents include:
			 Reference to WCPFC two-letter COUNTRY codes (web page yet to be developed) Reference to WCPFC five-letter LOCATION codes (web page yet to be developed) Clarified the benefits of using the Vessel identifier ("VID") only instead of including all vessel attributes which would be inefficient (see APPENDIX 4) Clarified that the fields that are <u>not WCPFC Regional Observer Programme (ROP) minimum data fields</u> are classified in the WCPFC Field column with 'N'. In general, modify the description of data fields to be consistent with the descriptions in the <u>WCPFC ROP minimum data fields</u>, where relevant. Includes a contingency if the WCPFC LOCATION code for a port is not available. Aligned Date/Time requirements to WCPFC ROP standards where relevant.
2.00	July 2016	Ongoing update only – this version was reviewed but no opportunity to approve.	 Recommendations for update of WCFPC ROP data fields approved by WCPFC12, including 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 Wire trace moved to TRIP level Longline hook type information moved to SET level Add fields for date-time and position for each catch event and each float retrieval which are automatically generated from EM systems

1.00	July 2015	WCPFC ERandEM	First version draft accepted by the meeting
(Draft)		meeting (Nadi, Fiji)	

Sι	Suggestions for future versions				
1.	Number each of the data fields in the <u>WCPFC ROP minimum data fields</u> so the same fields in this document can be				
	referenced with the corresponding data-field number. This suggestion will be incorporated into this document when there is				
	agreement to update the WCPFC ROP minimum data fields. This implementation will facilitate the cross-referencing				
	between the required WCPFC fields and this document. In the longer term, the metadata database will further improve the				
	referencing of these data fields.				

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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 <u>WCPFC ROP minimum data fields</u> (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 field¹ or not.

These E-Reporting data field standards are consistent with, and should be considered in conjunction with more detailed instructions² on how to collect observer data provided by fleets active in the WCPFC area.

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.

These tables may also be used to provide data that were not collected through E-Reporting.

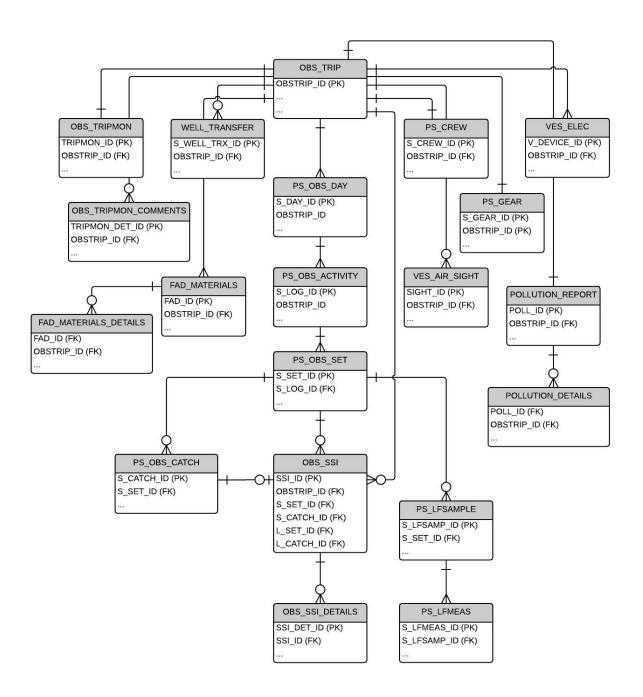
² In addition to the minimum WCPFC ROP data fields, instructions for observer data collection in the WCPFC Area are available with the regional standard observer data collection forms at http://www.spc.int/oceanfish/en/data-collection-forms, general information/instruction for observers at http://www.spc.int/OceanFish/en/data-collection-forms, general information/instruction for observers at http://www.spc.int/OceanFish/en/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.

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" <u>http://www.wcpfc.int/doc/table-rop-data-fields-</u> <u>including-instructions</u>

1. PURSE SEINE OBSERVER E-REPORTING STANDARDS

1.1 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. The tables that follow provide more information on the mechanisms of the links (relationships) between the entities.



1.2 TRIP-LEVEL DATA

"The start of a trip is de	efined to occur when a vessel (a) leaves port after unloadi	OBS_TRIP ² ng part or all of the catch to tra	s nsit to a fishing area or (b) recommences fishing operations o	r transits to a fishing	area after		
transshipping part or all of the catch at sea (when this occurs in accordance with the terms and conditions of article 4 of Annex III of the Convention, subject to specific exemptions as per article 29 of the Convention)."							
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD ⁴		
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></obstrip_id>	Y		
OBSPRG_CODE	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 WCPFC alpha-2 two-letter Country Codes For example, refer to WCPFC codes web page ⁵	<obsprg_code></obsprg_code>	Ŷ		
OBS_CODE	Observer 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)	Observer code must exist in the regional Observer programme. The unique 5-letter observer codes are generated and maintained by Regional agencies. For example, the unique 5-letter observer code for SPC/FFA country observers is maintained by SPC/FFA and used in the WCPFC observer database. It is recognised that some national observer programmes for domestic vessels will provide their own observer codes which will then be translated into the regional agency observer code.	<obs_code></obs_code>	Y		

³ However, the definition of "start of an observer trip" requires some clarification within the WCPFC. For example, "start of (observer) trip" could be defined to occur when a vessel (a) leaves port with the observer or (b) receives the observer at the sea (after a transhipment, for example, which would designate the start of a new trip).

⁴ Indicates whether it is a <u>WCPFC ROP minimum data field</u> or not.

⁵ The WCPFC standard codes web page is yet to be implemented

OBS_TRIP ³ "The start of a trip is defined to occur when a vessel (a) leaves port after unloading part or all of the catch to transit to a fishing area or (b) recommences fishing operations or transits to a fishing area after transshipping part or all of the catch at sea (when this occurs in accordance with the terms and conditions of article 4 of Annex III of the Convention, subject to specific exemptions as per article 29 of the Convention)."						
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD	
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 <u>OBSERVER.</u> 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></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></tripno_int>	N	
DATE and TIME OF DEPARTURE from PORT	Depart DATE/TIME the vessel leaves a port to start its fishing campaign	REFER TO APPENDIX A1	Data should be reported in UTC DATE/TIME.	<date_dep_port></date_dep_port>	Y	
DATE and TIME OF EMBARKATION	DATE/TIME the observer leaves the port (departs or embarks) to start their observer trip. If embarking at sea, this will be different from the DATE/TIME of Vessel departure from port.	REFER TO APPENDIX A1	Data should be reported in UTC DATE/TIME.	<date_embark></date_embark>	У	
DATE AND TIME OF RETURN IN PORT	DATE/TIME for the vessel to return to port	REFER TO APPENDIX A1	Data should be reported in UTC DATE/TIME.	<ret_date></ret_date>	Y	
DATE AND TIME OF DISEMBARKATION	DATE/TIME the observer disembarks from the vessel to end the observer trip. If disembarking at sea, this will be different from the DATE/TIME of Vessel return to port.	REFER TO APPENDIX A1	Data should be reported in UTC DATE/TIME.	<date_disembark></date_disembark>	Y	
GEAR_TYPE	Link to ref_gears table	Char (1)	Must be a valid GEAR: 'L' - Longline; 'S' - Purse seine; 'P' - Pole-and-line	<gear_type></gear_type>	Y	
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></license_no>	N	
VESSEL IDENTIFIER	PROVIDE the WCPFC VID for the VESSEL undertaking this trip.	REFER TO APPENDIX A4	Using a vessel identifier field ("VID") removes the redundancy of including all vessel attributes with each trip record and ensures standardisation and consistency through referencing the main Vessel Registry database. See APPENDIX A4	<vid></vid>	Y	

			nsit to a fishing area or (b) recommences fishing operations c ticle 4 of Annex III of the Convention, subject to specific exer		
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD ⁴
			which lists all the vessel attributes that should be provided.		FIELD
VERSN ID	Data standards version	Int		<versn_id></versn_id>	N
COUNTRY_CODE	Two letter COUNTRY CODE for the country who organise the trip	Char (2)	Refer to valid WCPFC alpha-2 two-letter Country Codes For example, refer to WCPFC Codes web page	<country_code></country_code>	Ν
PORT OF DEPARTURE	PROVIDE name of the Port where the vessel departs	REFER TO APPENDIX A3	Must be valid WCPFC 5-letter LOCATION Code. In the rare case that the port is not in the WCFPC LOCATION codes, then the actual port name can be included and a WCFPC LOCATION code will be generated.	<dep_port></dep_port>	Y
PORT OF RETURN	PROVIDE name of the Port where the vessel returns	REFER TO APPENDIX A3	Must be valid WCPFC 5-letter LOCATION Code. In the rare case that the port is not in the WCFPC LOCATION codes, then the actual port name can be included and a WCFPC LOCATION code will be generated.	<ret_port></ret_port>	Y
EMBARK_LAT	The actual depart LAT position for the observer trip (if embarking AT SEA)	REFER TO APPENDIX A2		<embark_lat></embark_lat>	Y
EMBARK_LON	The actual depart LON position for the observer trip (if embarking AT SEA)	REFER TO APPENDIX A2		<disembark_lon></disembark_lon>	Y
DISEMBARK_LAT	The actual depart LAT position for the observer trip (if disembarking AT SEA)	REFER TO APPENDIX A2		<disembark_lat></disembark_lat>	Y
DISEMBARK LON	The actual depart LON position for the observer trip (if disembarking AT SEA)	REFER TO APPENDIX A2		<pre><disembark_lon></disembark_lon></pre>	Y
VESOWNER HULL MARKINGS	NAME of the vessel owner Check compliance with CMM2004-03 and its successor measures	NVarChar (50)	The hull markings should be consistent with CMM2014-03 and its successor measures; these are virtually the same as the FAO standards on vessel markings except that a few letters disallowed in the FAO standards are permitted in CMM2004-03 and its successor measures.	<vesowner></vesowner>	Y Y Y
WIN MARKINGS	Check compliance with CMM2004-03 and its successor measures			<win_markinfs></win_markinfs>	Y
VESCAPT NAME	NAME of the captain of the vessel	NVarChar (50)		<vescaptain></vescaptain>	Y
VESCAPT_NATION	NATIONALITY of the captain of the vessel	Char (2)	Refer to valid WCPFC alpha-2 two-letter Country Codes For example, refer to WCPFC Codes web page	<capt_co_code></capt_co_code>	Y
VESCAPT_ID_DOC	The Document that confirms nationality of the captain.	NVarChar (20)		<capt_id_doc></capt_id_doc>	Y
VESMAST NAME	NAME of the fishing master	NVarChar (50)		<vesmaster></vesmaster>	

"The start of a trip is d	lefined to occur when a vessel (a) leaves port after unloadir	OBS_TRIP	3 ansit to a fishing area or (b) recommences fishing operations o	or transits to a fishing a	rea after		
transshipping part or all of the catch at sea (when this occurs in accordance with the terms and conditions of article 4 of Annex III of the Convention, subject to specific exemptions as per article 29 of the Convention)."							
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD ⁴		
VESMAST_NATION	NATIONALITY of the vessel MASTER	Char (2)	Refer to valid WCPFC alpha-2 two-letter Country Codes For example, refer to WCPFC Codes web page	<vescapt_co_code></vescapt_co_code>	Y		
VESMAST_ID_DOC	The Document that confirms nationality of the Fishing Master.	NVarChar (20)		<vescapt_id_doc></vescapt_id_doc>	Y		
CREW_TOTAL	Total number of CREW on-board, including captain and officers, during the trip (does not include observer).	Int		<crew_number></crew_number>	Y		
CREW_OTHERS	Total number of the crews excluding captain and fishing master.		If collecting these data by nationality, there is a separate table called CREW_DATA to provide this information.	<crew_others></crew_others>	Y		
BOARD_NATION	Nationality of any boarding vessel. When at sea indicate if any patrol vessels made a boarding name and nationality of the vessel making the boarding	Char(2)	Refer to valid WCPFC alpha-2 two-letter Country Codes For example, refer to <u>WCPFC Codes web page</u>	<capt_co_code></capt_co_code>	Y		
SPILL	FLAG to indicated the trip was a SPILL SAMPLE trip	Bit		<spill></spill>	Ν		
CADET	FLAG to indicated whether the trip was observed by a CADET observer	Bit		<cadet></cadet>	N		
SHARKTARGET	FLAG to indicated a trip has targeted SHARKS (LONGLINE trips only)	Bit		<sharktarget></sharktarget>	Ν		
COMMENTS	General comments about the trip	NText		<comments></comments>	N		

1.3 DAILY SUMMARY DATA

The observer	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	Notes	XML TAG	WCPFC FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></s_day_id>	Y	
DAY_START	Local/Ship's Date and time at the start of daily activities.	REFER TO APPENDIX A1		<start_date></start_date>	Ν	
UTC DAY START	UTC equivalent of DAY START	REFER TO APPENDIX A1		<utc_start_date></utc_start_date>	N	
LOG_NOFISH_N	Provide the Number of logs sighted but no schools association.	SmallInt		<log_nofish_n></log_nofish_n>	Ν	
LOG_FISH_N	Provide the Number of log associated schools sighted.	SmallInt		<log_fish_n></log_fish_n>	Ν	
SCH_FISH_N	Provide the numbers of school sighted at that day.	SmallInt		<sch_fish_n></sch_fish_n>	Y	
FAD_FISH_N	Provide the Number of anchored FADs sighted.	SmallInt		<fad_fish_n></fad_fish_n>	N	
FAD_NOFISH_N	Provide the Number of anchored FADS sighted but no schools association.	SmallInt		<fad_nofish_n></fad_nofish_n>	Ν	
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></gen3today_ans>	N	
DIARYPAGE	Journal page # which has detail explanations of the incident	VarChar (50)		<diarypage></diarypage>	Ν	

1.4 ACTIVITY LOG DATA

FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></s_log_id>	Y
DAY_START	Local/Ship's Date and time at the start of daily activities.	REFER TO APPENDIX A1	(Identical to field in PS_OBS_DAY)	<start_date></start_date>	N
UTC DAY START	UTC equivalent of DAY START	REFER TO APPENDIX A1	(Identical to field in PS OBS DAY)	<ute>utc_start_date></ute>	Ν
ACT_TIME	Record ships time for each activity as indicated on the activity code table.	REFER TO APPENDIX A1	Must be consistent with the start of DAY log DATE. The combined DATE/TIME may be provided in this field.	<act_time></act_time>	Y
UTC_ACT_TIME	UTC equivalent of ACT_TIME	REFER TO APPENDIX A1	Must be consistent with the start of DAY log UTC DATE. The combined UTC DATE/TIME may be provided in this field.	<utc_act_time></utc_act_time>	Ν
LAT	Latitude at which this ACTIVITY LOG recorded	REFER TO APPENDIX A2		<lat></lat>	Y
LON	Longitude at which this ACTIVITY LOG recorded.	REFER TO APPENDIX A2		<lon></lon>	Y
S ACTIV ID	Purse seine activity code.	REFER TO APPENDIX A5		<s_activ_id></s_activ_id>	Y
SCHAS ID	School association code.	REFER TO APPENDIX A6		<schas_id></schas_id>	Y
DETON_ID	Provide method of detection of fish. Use Detection id. code. Must be 1-6 or 0 for no information.	REFER TO APPENDIX A7		<deton_id></deton_id>	Y
BEACON	Beacon number where available. (there may be a regional standard numbering system in the future).	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	<beacon></beacon>	N
COMMENTS	Observer comments related to this activity	NText		<comments></comments>	Ν

1.5 SET-LEVEL DATA

PS_OBS_SET The observer must PROVIDE the following information for EACH FISHING SET for the period of the trip.						
FIELD		llection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	KEY or u	lly generated. Can be NATURAL unique integer. NATURAL KEY e VESSEL + DEPARTURE DATE			<obstrip_id></obstrip_id>	Y
SET IDENTIFIER	KEY or u would be	lly generated. Can be NATURAL unique integer. NATURAL KEY e VESSEL + DEPARTURE DATE + RT DATE + SET START TIME		Must be consistent with PS_OBS_ACTIVITY record where S_ACTIV_ID = 1 (A fishing set).	<s_set_id></s_set_id>	Y
SET NUMBER	Unique a	# for the SET ni this trip	Int		<set_number></set_number>	N
SKIFFOFF_TIME	DEFINED	ATE/TIME for the START OF SET. as the START of SET - Local me when net skiff off with net	REFER TO APPENDIX A1		<skiffoff_time></skiffoff_time>	Y
SKIFFOFF UTC	UTC DATH	E & TIME of START of SET	REFER TO APPENDIX A1	Must be aligned to SKIFFOFF TIME	<skiffoff utc=""></skiffoff>	N
WINCHON_TIME		ATE/TIME when winches start to	REFER TO APPENDIX A1		<pre><winchon_time></winchon_time></pre>	Ν
WINCHON_UTC	UTC DATH haul the	E & TIME when winches start to e net.	REFER TO APPENDIX A1	Must be aligned to WINCHON_TIME	<winchon_utc></winchon_utc>	Ν
RINGUP_TIME	raised :	ATE/TIME when purse ring is from the water.	REFER TO APPENDIX A1		<ringup_time></ringup_time>	Ν
RINGUP_UTC	raised :	E & TIME when purse ring is from the water.	REFER TO APPENDIX A1	Must be aligned to RINGUP_TIME	<ringup_utc></ringup_utc>	Ν
SBRAIL TIME	LOCAL DA	ATE/TIME when brailing begins.	REFER TO APPENDIX A1		<sbrail_time></sbrail_time>	N
SBRAIL UTC	UTC DATE	E & TIME when brailing begins.	REFER TO APPENDIX A1	Must be aligned to SBRAIL TIME	<sbrail_utc></sbrail_utc>	N
EBRAIL TIME	LOCAL DA	ATE/TIME when brailing ends.	REFER TO APPENDIX A1		<ebrail_time></ebrail_time>	N
EBRAIL UTC	UTC DATE	E & TIME when brailing ends.	REFER TO APPENDIX A1	Must be aligned to EBRAIL TIME	<ebrail_utc></ebrail_utc>	N
STOP_TIME	Time whe	ATE/TIME for the END of SET - en net skiff comes on-board d of set.	REFER TO APPENDIX A1		<stop_time></stop_time>	Y
STOP_UTC		E & TIME - Date &Time when net ones on-board i.e. end of set.	REFER TO APPENDIX A1	Must be aligned to STOP_TIME	<stop_utc></stop_utc>	Ν
LD BRAILS		all brails	Decimal (8,3)		<ld_brails></ld_brails>	N
LD_BRAILS2	second t	brails (#2)- only where a type of brailer was used	Decimal (8,3)		<ld_brails2></ld_brails2>	Ν
MTTOTAL_OBS	Total of BYCATCH	bserved catch (TUNA and) (mt)	Decimal (8,3)		<mt_total_obs></mt_total_obs>	Ν
MTTUNA_OBS	TOTAL ar	mount 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></mttuna_obs>	Ν
TOTSKJ_ANS	CK	FLAG to indicate whether SKJ is presence in the set catch	Char (1)		<totskj_ans></totskj_ans>	Ν
PERC SKJ	JA	% of SKJ in the set catch	Int		<perc_skj></perc_skj>	N
MTSKJ_OBS	SKIPJACK	Metric Tonnes of SKJ in the set catch	Decimal (8,3)	Determined from MTTUNA_OBS and PERC_SKJ fields	<mtskj_obs></mtskj_obs>	N

			PS_OB			
T FIELD		erver must PROVIDE the fol	llowing information Field format notes	n for EACH FISHING SET for the period of the Notes	he trip. XML TAG	WCPFC
TOTYFT_ANS		FLAG to indicate whether YFT is presence in the set catch	Char (1)		<totyft_ans></totyft_ans>	FIELD N
PERC YFT	-	% of YFT in the set catch	Int		<perc yft=""></perc>	N
MTYFT_OBS	z	Metric Tonnes of YFT in the set catch	Decimal (8,3)	Determined from MTTUNA_OBS and PERC_YFT fields	<mtyft_obs></mtyft_obs>	N
LARGE_YFT_ANS	YELLOWFIN	FLAG to indicate YFT in the set catch	Char (1)		<large_yft_ans></large_yft_ans>	N
PERC_LARGE_YFT	X	% of large YFT in the set catch	Int		<perc_large_yft></perc_large_yft>	N
NB_LARGE_YFT		<pre># of large YFT in the set catch</pre>	Int		<nb_large_yft></nb_large_yft>	N
TOTBET_ANS		FLAG to indicate whether BET is presence in the set catch	Char (1)		<totbet_ans></totbet_ans>	N
PERC_BET		% of BET in the set catch	Int		<perc_bet></perc_bet>	N
MTBET_OBS	ЭХЭ	Metric Tonnes of BET in the set catch	Decimal (8,3)	Determined from MTTUNA_OBS and PERC_BET fields	<mtbet_obs></mtbet_obs>	N
LARGE_BET_ANS	BIGEYE	FLAG to indicate BET in the set catch	Char (1)		<large_bet_ans></large_bet_ans>	N
PERC_LARGE_BET		<pre>% of large BET in the set catch</pre>	Int		<pre><perc_large_bet></perc_large_bet></pre>	Ν
NB_LARGE_BET		<pre># of large BET in the set catch</pre>	Int		<nb_large_bet></nb_large_bet>	Ν
COMMENTS	comments	s	NText		<comments></comments>	N
B_NBTAGS		as much information as e on any Tags recovered	SmallInt		<b_nbtags></b_nbtags>	Y

1.6 SET CATCH DATA

The observe	PS_OBS_CATCH The observer must PROVIDE the following CATCH DETAILS for each species retained or discarded in EACH FISHING SET for the period of the trip.							
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD			
TRIP IDENTIFIER	KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></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></s_catch_id>	Y			
SP CODE	Species code.	Char (3)	REFER TO APPENDIX 8.	<sp_code></sp_code>	Y			
RET_DISC	Use 'R' for Retained or 'D' for Discarded	Char (1)		<ret_disc></ret_disc>	Y			
FATE_CODE	FATE of this catch. This field provides more detail on FATE and indicates whether it was RETAINED, DISCARDED or ESCAPED, and any specific processing.	Char (3)	REFER TO APPENDIX 9	<fate_code></fate_code>	Ν			
COND_CODE	CONDITION of this catch. Relevant for the Species of Special Interest.	Char (2)	REFER TO APPENDIX 10	<cond_code></cond_code>	N			
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)	The field RET_DET indicates whether this represents retention or discard of this species.	<obs_mt></obs_mt>	У			
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></obs_n>	N			
COMMENTS	Are there any comments for this species catch ? (Y/N)	NText		<comments></comments>	N			

1.7 SPECIES OF SPECIAL INTEREST DATA

		ECIES OF SPECI	DBS_SSI TAL INTEREST CATCH DETAILS for each species ret	-					
discarded	discarded in 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	Notes	XML TAG	WCPFC FIELD				
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></obstrip_id>	Y				
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></s_set_id>	Y				
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></s_catch_id>	Ŷ				
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></l_set_id>	Y				
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></l_catch_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			<ssi_id></ssi_id>	Y				
SGTYPE	Type of Interaction : 'L' - Landed; "S"- Sighted; "I" - Interacted with Gear	Char (1)	Must be 'L' - Landed on deck; "S"- Sighted; "I" - Interacted with Gear	<sgtype></sgtype>	Y				
SSI_DATE	Record ships date and time of interaction	REFER TO APPENDIX A1	When SGTYPE = 'L' or 'I'	<ssi_date></ssi_date>	Y				

OBS SSI The observer must PROVIDE the following SPECIES OF SPECIAL INTEREST CATCH DETAILS for each species retained, released or discarded in 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. Data Collection Instructions Field format FIELD Notes XML TAG WCPFC FIELD notes Must be consistent with PS OBS ACTIVITY record -ACT DATE When SGTYPE = L' or I'UTC SSI DATE [UTC equivalent of SSI DATE] REFER TO <UTC SSI DATE> Ν APPENDIX A1 Must be consistent with PS OBS ACTIVITY record -UTC ACT DATE When SGTYPE = 'L' or 'I' <LAT> LAT Latitude at which this SSI was REFER TO Y APPENDIX A2 encountered Must be consistent with PS OBS ACTIVITY record - LAT When SGTYPE = L' or I'<LON> Y LON Longitude at which this SSI was REFER TO APPENDIX A2 encountered Must be consistent with PS OBS ACTIVITY record - LON SP CODE SSI Species encountered. Link to Char (3) REFER TO APPENDIX 8. <SP CODE> Y species table Must correspond to the PS OBS CATCH record SP DESC Extended Species Description NText <SP DESC> Ν Condition when landed on Deck or Char (2) <LANDED COND CODE> LANDED COND CODE REFER TO APPENDIX 10 v at start of interaction with vessel's gear Condition code on LANDING <LANDED COND DESC> LANDED COND DESC Description of Condition when NText Ν landed on Deck or at start of interaction with vessel's gear <LANDED HANDLING> LANDED HANDLING Description of handling on landing NText Ν <LANDED LEN> LANDED LEN Length of landed species Decimal (5,1) Y REFER TO APPENDIX 11 <LEN CODE> LEN CODE Length measurement code of the Char (2)Y individual Sex code of the individual Char (1) <LANDED SEX CODE> GENDER REFER TO APPENDIX 12 Υ Condition on RELEASE/DISCARD, or Char (2) REFER TO APPENDIX 10 <REL COND CODE> RELEASE COND CODE Y at the END of interaction with vessel's gear. Condition code on RELEASE/DISCARD, or at the END of interaction with vessel's gear Description of Condition on NText <REL COND DESC> RELEASE COND DESC Ν RELEASE/DISCARD, or at the END of interaction with vessel's gear SP GR CODE Species/Gear interaction Char (3) APPENDIX A32 - SPECIES/GEAR INTERACTION CODES <SP GR CODE> Ν SHK FIN WT KGS <SHK FIN WT KGS> Estimated SHARK FIN WEIGHT (kgs) Decimal (5,0) Υ SHK FIN BODY KGS Estimated SHARK CARCASS WEIGHT Decimal (5,0) <SHK FIN BODY KGS> Y (kqs)

NVarChar (7)

NVarChar (5)

TAG RET NO

TAG RET TYPE

Tag Number recovered from animal

Type of Tag recovered from animal

Υ

Ν

<TAG RET NO>

<TAG RET TYPE>

OBS SSI The observer must PROVIDE the following SPECIES OF SPECIAL INTEREST CATCH DETAILS for each species retained, released or discarded in 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. Data Collection Instructions Field format FIELD Notes XML TAG WCPFC FIELD notes Origin of Tag recovered from NVarChar (10) <TAG RET ORG> TAG RET ORG Record as much as information as possible on any Ν animal (Organisation) Tags recovered. At least these fields should be TAG PLACE NO Tag number placed on animal NVarChar (14) recorded. <TAG PLACE NO> Ν <TAG PLACE TYPE> TAG PLACE TYPE Type of Tag placed on animal NVarChar (8) Υ Origin of Tag placed on animal NVarChar (10) <TAG PLACE ORG> TAG PLACE ORG Υ (Organisation) INTACT ID Vessel activity when INTERACTION Tnt. REFER TO APPENDIX 13 <INTACT ID> Y occurs INTACT OTHER Other types of interaction NVarChar (20) <INTACT OTHER> Ν INT DESCRIBE Description of the interaction <INT DESCRIBE> NText Y SGACT ID Vessel activity when SIGHTING Int REFER TO APPENDIX 13 <SGACT ID> Ν occurs SGACT OTHER Indicates "other" Vessel Activity NVarChar (20) <SGACT OTHER> Ν SIGHT N Number of individuals sighted SmallInt. <SIGHT N> Y SIGHT ADULT N <SIGHT ADULT N> Number of adults sighted SmallInt. Ν SIGHT JUV N Number of juveniles sighted SmallInt <SIGHT JUV N> Ν Estimated overall length (Average <SIGHT LEN> SIGHT LEN NText Ν if more than one individual) SIGHT DIST Distance of sighted animals from Decimal (7,3) <SIGHT DIST> Ν vessel SIGHT DIST UNIT Units used for SIGHT DIST INT 1 = Metres; 2 = kilometres; 3 = Nautical miles <SIGHT DIST UNIT> Ν Distance in nautical miles <SIGHT DIST NM> SIGHT DIST NM Decimal (10,4) Ν SIGHT BEHAV Description of behaviour of NText <SIGHT BEHAV> Ν Sighted animals

1.8 SPECIES OF SPECIAL INTEREST DETAILS DATA

	OBS_SSI_DETAILS									
The observer m	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	Notes	XML TAG	WCPFC FIELD					
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></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></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></start_end>	Ν					
SSI NUMBER	Number of animals interacted	Int		<ssi_number></ssi_number>	N					
COND_CODE	CONDITION at the point of recording (either START or END)	Char (2)	REFER TO APPENDIX 10	<cond_code></cond_code>	N					
DESCRIPTION	Descriptions of the interaction	VarChar (100)		<description></description>	N					

1.9 LENGTH SAMPLE DATA

	PS_LFSAMPLE						
PROV	IDE the information related to	the size (length	and species composition SAMPLE from each H	SISHING SET.			
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD		
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></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=""></s_lfsamp>	Y		
SAMPLETYPE ID	Sample Type	CHAR(1)	REFER TO APPENDIX 14	<sampletype_id></sampletype_id>	N		
OTHER DESC	Description other sampling type	NText		<other_desc></other_desc>	N		
FISH PER BRAIL	Target # of fish for sampling	SmallInt		<fish_per_brail></fish_per_brail>	N		
MEASURE CODE	MEASURING INSTRUMENT	Char (1)	REFER TO APPENDIX 15	<measure_code></measure_code>	N		
COMMENTS	Comments about the sampling	NText		<comments></comments>	N		
BRAIL_FULL_N	# of Full brail count	SmallInt		<brail_full_n></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></brail_23_n>	N		
BRAIL 12 N	# of Half brail count	SmallInt		<brail_12_n></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></brail_14_n>	N		
BRAIL 18 N	# of One eighth brail count	SmallInt		 BRAIL_18_N>	N		
BRAIL N	Total number of brails	SmallInt		 	N		
SUM BRAILS	Sum of All Brails	Decimal (7,2)		<sum_brails></sum_brails>	N		
SAMPLED_BRAIL_N UM	# of sampled brail	Int		<pre><sampled_brail_num></sampled_brail_num></pre>	N		
MEASURED N	# of samples measured	Int		<measured_n></measured_n>	N		

1.10 INDIVIDUAL LENGTH DATA

	PS_LFMEAS							
	PROVIDE the individual fish measurements from the SAMPLE from each FISHING SET.							
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD			
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></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=""></s_lfsamp>	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></s_lfmeas_id>	Y			
SEQ NUMBER	Measurement number.	Int		<seq_number></seq_number>	N			
SP CODE	Link to species table	Char (3)	REFER TO APPENDIX 8.	<sp_code></sp_code>	Y			
LEN	Length (cm).	SmallInt	Expectation that that the following measurements have been taken by the observers, as instructed. TUNA SPECIES - Upper jaw to fork length; LEN_CODE = 'UF' SHARK SPECIES - total length; LEN_CODE = 'TL' BILLFISH SPECIES - Lower jaw to fork length for billfish. LEN CODE = 'LF'	<len></len>	Ŷ			
LEN_CODE	Record measurement methods given in codes				Y			

1.11 TRIP MONITORING SUMMARY

	OBS TRIPMON PROVIDE the details of the OBSERVER GEN-3 "OBSERVER VESSEL TRIP MONITORING FORM". One record per question.							
FIELD PROV.	Data Collection Instructions	GEN-3 "OBSERVER VES Field format notes	SEL TRIP MONITORING FORM". One record pe: Notes	r question.	WCPFC FIELD			
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></tripmon_id>	У			
QUESTION_CODE	Unique CODE for each question in GEN3	Char (4)	REFER TO APPENDIX 16	<question_code></question_code>	Y			
ANSWER	Record the Answer to each question. There is also an indicator whether this has been answered or NOT	Char (1)	MUST BE 'Y', 'N' or 'X'- not answered	<answer></answer>	Y			
JOURNAL_PAGE	Additional explanation and information for any YES response (including reference to the journal page)	NText		<journal_page></journal_page>	Y			

1.12 TRIP MONITORING COMMENTS

PROVIDE the	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	Notes	XML TAG	WCPFC FIELD				
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></tripmon_det_id>	Y				
GEN3_DATE	Date of the incident on GEN3	REFER TO APPENDIX A1		<gen3_date></gen3_date>	N				
COMMENTS	Detail description of the incident	NText		<comments></comments>	N				

1.13 VESSEL/AIRCRAFT SIGHTINGS DATA

FIELD	Data Collection Instructions	Field format notes	AFT SIGHTINGS / FISH, BUNKERING and OTHER T Notes	XML TAG	WCPFO
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></sight_id>	Y
SIGHT DATE TIME	Date/Time of sighting	REFER TO APPENDIX A1		<sighting_date></sighting_date>	Y
LAT	Latitude of SIGHTING	REFER TO APPENDIX A2		<lat></lat>	Y
LON	Longitude of SIGHTING	REFER TO APPENDIX A2		<lon></lon>	Y
VESSEL IDENTIFIER	PROVIDE the WCPFC VID for the VESSEL sighted (if this is possible)	REFER TO APPENDIX A4	Record VID if the vessel can be identified on the WCPFC RFV	<vid></vid>	N
S_NAME	Record sighted vessel or aircraft name, where possible			<s_name></s_name>	Y
S_IRCS	Record sighted vessel or aircraft call-sign, where possible		Record this information if the vessel cannot be	<s_ircs></s_ircs>	Y
S_FLAG	Record flag of sight vessel, if possible		identified on the WCPFC RFV	<s_flag></s_flag>	Y
S_OTHER-MARKING	Record other vessel markings, if possible			<s_mark></s_mark>	Y
VATYP ID	Vessel / Aircraft type	Int	REFER TO APPENDIX 17	<vatyp_id></vatyp_id>	Y
BEARING_DIR	Bearing (0-360 degrees)	SmallInt		<bearing_dir></bearing_dir>	Y
DISTANCE	Record estimated distance from observers vessels to sighted vessel	Decimal (7,3)	Check the sighting on the radar and use the distance indicated, f not available use your estimate.	<distance></distance>	Y
DIST_UNIT	Units of Distance	INT	1 = Metres; 2 = kilometres; 3 = Nautical miles	<dist_unit></dist_unit>	Y
ACTION_CODE	Action of Vessel/Aircraft sighted	Char (2)	REFER TO APPENDIX 18 for Vessel/Aircraft sightings only - only allow actions where FORM USED = 'GEN-1'	<action_code></action_code>	Y
COMMENTS	Comments	NText		<comments></comments>	Y

1.14 CREW DATA

	PS_CREW PROVIDE the details of each PURSE SEINE CREW member on this TRIP.								
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD				
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE	notes		<obstrip_id></obstrip_id>	Y				
CREW IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + CREW NAME			<s_crew_id></s_crew_id>	Y				
VSJOB ID	CREW JOB TYPE	Int	REFER TO APPENDIX 19	<vsjob_id></vsjob_id>	Ν				
NAME	Name of the person in this position	NVarChar (50)		<name></name>	N				
COUNTRY_CODE	Nationality of the person in this position	Char (2)	Refer to valid WCPFC alpha-2 two-letter Country Codes For example, refer to WCPFC Codes web page WCPFC requirements are to list crew by nationality (non-binding).	<country_code></country_code>	N				
EXP YR	Experience in Years	SmallInt		<exp_yr></exp_yr>	N				
EXP_MO	Experience in months	SmallInt		<exp_mo></exp_mo>	N				
COMMENTS	Comments	NText		<comments></comments>	N				

1.15 MARINE DEVICES DATA

	VES_ELEC PROVIDE information on the standard Marine Electronic devices.								
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD				
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></v_device_id>	У				
DEVICE_ID	Marine Device CODE.	Int	Refer to APPENDIX 20 - 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></device_id>	Y				
ONBOARD CODE	Is this DEVICE SIGHTED ONBOARD ?	Char (1)	'Y' or 'N'	<onboard_code></onboard_code>	Y				
USAGE CODE	Is this DEVICE USED ?	Char (3)	Refer to APPENDIX 21	<usage_code></usage_code>	N				
MAKE DESC	Description of Make	NVarChar (30)		<make_desc></make_desc>	N				
MODEL_DESC	Description of Model	NVarChar (30)		<model_desc></model_desc>	N				
COMMENTS	Comments	NText		<comments></comments>	N				

1.16 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	Notes	XML TAG	WCPFC FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></s_well_trx_id>	N	
TRX DATE	DATE and TIME of fish transfer	REFER TO APPENDIX A1		<trx_date></trx_date>	N	
ACTION_CODE	WELL TRANSFER ACTION CODE	Char (2)	REFER TO APPENDIX 18 for Well transfers only - only allow actions where FORM USED = 'PS-5	<action_code></action_code>	Ν	
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></destination>	N	
WELL MT	Weight of the fish transfer	Decimal (8,3)		<well_mt></well_mt>	N	
CHANGE	Change of transfer - add or remove	Char (1)	Must be either '+', '-' or '0' (for no change)	<change></change>	N	
NEW TOTAL	New cumulative to for the transfer	Decimal (8,3)		<new_total></new_total>	N	
ON_LOGSHEET	FLAG to indicate the transfer has been stated on the logsheet	Char (1)		<on_logsheet></on_logsheet>	Ν	
COMMENTS	Comments made on the fish transfer	NText		<comments></comments>	N	

1.17 PURSE SEINE GEAR DATA

	PS_GEAR					
		ormation on the	PURSE SEINE GEAR on the vessel.			
FIELD	Data Collection Instructions	Field format	Notes	XML TAG	WCPFC	
		notes			FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></s_gear_id>	Y	
PB MAKE	Power block make	NVarChar (20)		<pb_make></pb_make>	N	
PB_MODEL	Power block model	NVarChar (20)		<pb_model></pb_model>	N	
PW MAKE	Purse winch make	NVarChar (20)		<pw_make></pw_make>	N	
PW MODEL	Purse winch model	NVarChar (20)		<pw_model></pw_model>	N	
NET DEPTH	Max depth of the net	SmallInt		<net_depth></net_depth>	Y	
NET_DEPTH_UNIT_ID	Net Depth unit of measurement M - metres; Y- Yards; F-Fathoms	Char(1)	Must be M, Y, F or blank	<net_depth_unit_id></net_depth_unit_id>	Y	
NET LENGTH	Max length of the net	SmallInt		<net_length></net_length>	Y	
NET_LENGTH_UNIT_ID	Net Length unit of measurement M - metres; Y- Yards; F-Fathoms	Char(1)	Must be M, Y, F or blank	<net_length_unit_id></net_length_unit_id>	Y	
NET STRIPS	Number of net strips	SmallInt		<net_strips></net_strips>	N	
NET HANG RATIO	Max net hang ratio	SmallInt		<net_hang_ratio></net_hang_ratio>	N	
MESH_MAIN	Main Mesh size	SmallInt		<mesh_main></mesh_main>	Y	
MESH_MAIN_UNIT_ID	Main mesh size unit of measurement C - centimetres; I - Inches	Char(1)	Must be C, I or blank	<mesh_main_unit_id></mesh_main_unit_id>	Y	
BRAIL_SIZE1	Brail #1 Capacity	Decimal (5,1)		<brail_size1></brail_size1>	Y	
BRAIL SIZE2	Brail #2 Capacity	Decimal (5,1)		 BRAIL_SIZE2>	Y	
BRAIL TYPE	Brailing Type Description	NText		 BRAIL_TYPE>	N	

1.18 PURSE SEINE VESSEL SUPPORT DATA

	PS_VESS_SUPPORT					
	PROVIDE inform		RSE SEINE VESSEL SUPPORT information.			
FIELD	Data Collection Instructions	Field format	Notes	XML TAG	WCPFC	
		notes			FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></obstrip_id>	Y	
PS VESS SUPPORT IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<s_vessup_id></s_vessup_id>	Y	
SPEEDBOATS N	Number of Speedboats	SmallInt		<speedboats_n></speedboats_n>	Y	
TOW_N	Number of Tow boats	SmallInt		<tow_n></tow_n>	Y	
AUXBOATS N	Number of Auxiliary boats	SmallInt		<auxboats_n></auxboats_n>	Y	
LIGHT_N	Number of light boats	SmallInt		<light_n></light_n>	Y	
TENDERBOATS_YN	Do other tender boats work with Catcher ?	Char(1)		<tenderboats_yn></tenderboats_yn>	Ν	
SKIFF MAKE	Make of SKIFF	Varchar(20)	Must be M, Y, F or blank	<skiff_make></skiff_make>	N	
SKIFF HP	Horsepower of SKIFF	Int		<skiff_hp></skiff_hp>	N	
HELI MAKE	Make of Helicopter	Varchar(20)		<heli_make></heli_make>	Y	
HELI MODEL	Model of helicopter	Varchar(20)		<heli_model></heli_model>	Y	
HELI REG NO	Helicopter registration number	Varchar(20)		<heli_reg_no></heli_reg_no>	Y	
HELI_RANGE	Range of Helicopter (see HELI_RANGE_UNIT)	Int	Must be C, I or blank	<heli_range></heli_range>	Y	
HELI_RANGE_UNIT	Unit of distance for range of Helicopter	Char(1)	'K' in kms ; 'N' in nautical miles	<heli_range_unit></heli_range_unit>	Y	
HELI_COLOUR	Colour of Helicopter	Varchar(20))		<heli_colour></heli_colour>	Y	
HELI_SERVICES_N	No. of vessels that this helicopter services	SmallInt		<heli_services_n></heli_services_n>	Ν	

1.19 FAD MATERIAL DATA

FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></fad_id>	Y
FAD_EVENT_DATE	DATE/TIME of the FAD sighting (observation event).	REFER TO APPENDIX A1		<fad_event_date></fad_event_date>	Y
OBJECT_NUMBER	Number allocated for the object. (related to "FAD Markings or numbers")	SmallInt		<object_number></object_number>	Y
ORIGIN_CODE	Original CODE of the FAD	REFER TO APPENDIX A24	Code 5 or 6 used for FADs with radio buoy attached	<origin_code></origin_code>	Y
FAD DET CODE	FAD Detection CODE	REFER TO APPENDIX A25		<fad code="" det=""></fad>	Y
DEPLOYMENT DATE	Date of FAD deployment	REFER TO APPENDIX A1		<pre><deployment date=""></deployment></pre>	N
LAT	LAT position of deployment	REFER TO APPENDIX A2		<lat></lat>	Y
LON	LON position of deployment	REFER TO APPENDIX A2		<lon></lon>	Y
SSI_TRAPPED	FLAG to indicate whether any SSI are trapped on the FAD	Char (1)		<ssi_trapped></ssi_trapped>	Ν
AS_FOUND_CODE	CODE to indicate whether the FAD "as Found"	Int		<as_found_code></as_found_code>	Ν
AS_LEFT_CODE	CODE to indicate whether the FAD "as Left"	Int		<as_left_code></as_left_code>	N
MAX DEPTH M	Max DEPTH of the FAD in metres	Decimal (5,1)		<max_depth_m></max_depth_m>	Y
LENGTH M	Max LENGTH of the FAD in metres	Decimal (5,1)		<length_m></length_m>	Y
WIDTH M	Max WIDTH of the FAD in metres	Decimal (5,1)		<width_m></width_m>	Y
BUOY NUMBER	Buoy number stated on the FAD	NVarChar (20)		<buoy_number></buoy_number>	Y
MARKINGS	Markings on the FAD	NVarChar (50)		<markings></markings>	Y
COMMENTS	Comments made by the observer about the FAD	NText		<comments></comments>	Y

1.20 FAD MATERIAL DETAIL

	PS_FAD_MATERIAL_DETAIL PROVIDE information on the FAD MATERIAL DETAIL observed during the trip.						
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD		
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></fad_id>	Y		
MATERIAL_CODE	FAD Material CODE	REFER TO APPENDIX A26	Material Code must exist in the ref_ids table	<material_code></material_code>	Y		
IS_ATTACHMENT	FLAG to indicate if there is an attachment to the FAD	Char (1)	Y' or 'N'	<is_attachment></is_attachment>	Y		

1.21 OBSERVER POLLUTION REPORT

	PROVIDE info	OBS_POLI	UTION on observed during the trip.		
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></poll_id>	Y
INC DATE	DATE & TIME of the incident	REFER TO APPENDIX A1		<inc_dtime></inc_dtime>	N
LAT	Latitude where incident occurred	REFER TO APPENDIX A2		<lat></lat>	N
LON	Longitude where incident occurred	REFER TO APPENDIX A2		<lon></lon>	Ν
PORT ID	PORT where incident occurred	REFER TO APPENDIX A3		<port_id></port_id>	N
ACTIV_ID	Activity when event occurred	REFER TO APPENDIX A5		<activ_id></activ_id>	N
VESSEL IDENIFIER		RE	FER TO APPENDIX A4		
VATYP ID	Vessel / Aircraft type	Int	REFER TO APPENDIX 17	<vatyp_id></vatyp_id>	N
BEARING_DIR	Compass Bearing to offending vessel	SmallInt		<bearing_dir></bearing_dir>	N
DISTANCE	Distance to offending vessel	Decimal (7,3)		<distance></distance>	N
COMMENTS	Additional comments	NText		<comments></comments>	N
STICKERS ANS	Response to "Stickers" question	Char (1)	'Y' or 'N'	<stickers_ans></stickers_ans>	N
AWARE ANS	Response to "MARPOL" question	Char (1)	'Y' or 'N'	<aware_ans></aware_ans>	N
ADVISED_ANS	Response to "INFRINGEMENTS" question	Char (1)	'Y' or 'N'	<advised_ans></advised_ans>	Ν
PHOTOS ANS	Response to "PHOTOS" question	Char (1)	Y' or N'	<pre><photos_ans></photos_ans></pre>	N
PHOTO_NUMBERS	Number of photos taken on the incident	NVarChar (50)		<pre><photo_numbers></photo_numbers></pre>	Ν

1.22 OBSERVER POLLUTION DETAILS

	OBS_POLLUTION_DETAILS PROVIDE information any Pollution details observed during the trip.						
FIELD	Data Collection Instructions	Field format notes	Notes	XML TAG	WCPFC FIELD		
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></poll_id>	Y		
POLLUTIONTYPE ID	Pollution type code	REFER TO APPENDIX A31	Some, but not all codes in listed in the	<pollutiontype_id></pollutiontype_id>	N		
MATERIAL ID	Pollution Materials code	REFER TO APPENDIX A29	relevant APPENDICES are WCPFC required	<material_id></material_id>	N		
POLL GEAR ID	Pollution Gear code	REFER TO APPENDIX A28	fields.	<poll_gear_id></poll_gear_id>	N		
POLL SRC ID	Pollution Source code	REFER TO APPENDIX A30		<poll_src_id></poll_src_id>	N		
POLL DESC	Description of pollution type	NText	For example, Disposal of OFFAL MANAGEMENT is	<poll_desc></poll_desc>	N		
POLL_QTY	Description of pollution quantity	NText	a WCFPC required field.	<poll_qty></poll_qty>	Ν		

1.23 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	Notes	XML TAG	WCPFC FIELD		
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></obs_jrnl_id>	N		
JRNL DATE	DATE of Journal entry	REFER TO APPENDIX A1		<pre><jrnl_date></jrnl_date></pre>	Ν		
JRNL_TEXT	Daily journal entry	NText		<jrnl_text></jrnl_text>	N		

1.24 PURSE SEINE TRIP REPORT

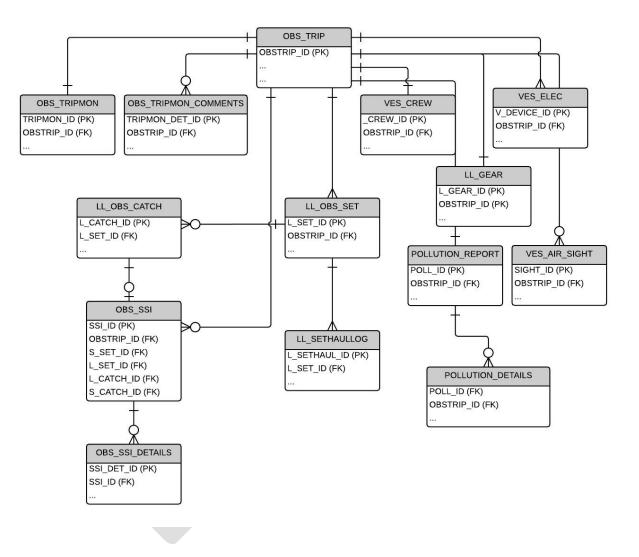
PS_TRIP_REPORT PROVIDE descriptive information on the trip.					
Dofo	PROVIDE des er to the relevant sections in http://		-		
FIELD	Data Collection Instructions	Field format	Note	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE	notes		<obstrip_id></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

	PS_TRIP_REPORT							
Rei	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-							
FIELD	Data Collection Instructions	Field format notes		WCPFC FIELD				
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				

2. LONGLINE OBSERVER E-REPORTING STANDARDS

2.1 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. The tables that follow provide more information on the mechanisms of the links (relationships) between the entities.



2.2 TRIP-LEVEL DATA

(see the common OBS_TRIP table under <u>1.2 TRIP-LEVEL DATA</u>)

2.3 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	Note	XML TAG	WCPFC FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></l_set_id>	Y	
SET NUMBER	Unique # for the SET in this trip	Int		<set_number></set_number>	N	
OBSERVED_YN	Flag to indicate whether set was observer or not.	Bit		<observed_yn></observed_yn>	N	
SET_START_DATE	Date and time the first buoy is thrown into the water to start the setting of the line.	REFER TO APPENDIX A1		<set_start_date></set_start_date>	Y	
SET START LAT	Take the GPS reading at the time the	REFER TO APPENDIX A2		<set lat="" start=""></set>	Y	
SET START LON	first buoy is thrown into the water.			<set lon="" start=""></set>	Y	
SET_END_DATE	Date and time the last buoy (usually has radio beacon attached) at the end of the mainline thrown into the water.	REFER TO APPENDIX A1		<set_end_date></set_end_date>	Y	
SET END LAT	Take the GPS reading at the time the	REFER TO APPENDIX A2		<set_start_lat></set_start_lat>	Y	
SET END LON	last buoy is thrown into the water.			<set_start_lon></set_start_lon>	Y	
HK BT FLT	Number of hooks between floats	SmallInt	Must be 1-60, or -1 for no information.	< HK_BT_FLT >	Y	
BASK SET	Number of baskets set.	SmallInt		 BASK_SET>	Y	
BASK_OBSERVED	Number of basket observed (bottom of form, Nov 07 version)	SmallInt		<bask_observed></bask_observed>	Y	
HOOK SET	Total number of hooks used in a set.	SmallInt		<hook set=""></hook>	Y	
HOOK_OBSERVED	Number of hooks observed and data recorded.	SmallInt		<hook_observed></hook_observed>	N	
FLOAT LENGTH	Length of floatline (m)	SmallInt		<float_length></float_length>	Y	
LSPEED	Line-shooter setting speed.	Decimal (5,1)		<lspeed></lspeed>	Y	
LSPEED_UNIT_ID	Link to ref_ids table	CHAR(1)	Must be `M' for metres/second or `K' for knots	<lspeed_unit_id></lspeed_unit_id>	Y	
BRANCH_INTVL	Time interval (secs.) between branchline sets.	SmallInt		<branch_intvl></branch_intvl>	Y	
BRANCH_DIST	Mainline distance between branchlines (m).	Decimal (4,1)		 BRANCH_DIST>	Y	
VESSEL SET SPEED	Vessel setting Speed (Knots).	Decimal (5,1)		<vessel_set_speed></vessel_set_speed>	N	
LIGHTSTICKS	Number of lightsticks used	SmallInt		<lightsticks></lightsticks>	Y	
TDRS	Number of Time Depth recorders used	SmallInt		<tdrs></tdrs>	Y	
BRANCH_LENGTH	Length of branchline (m) (If all are of a consistent length, otherwise use next set of fields).	Decimal (4,1)		<branch_length></branch_length>	Y	
BRANCH_0_20	Number of branchlines between successive floats that are < 20 m.	SmallInt		 BRANCH_0_20>	Ν	

	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	Note	XML TAG	WCPFC FIELD		
BRANCH_20_34	Number of branchlines between successive floats that are 20-35 m.	SmallInt		<pre><branch_20_34></branch_20_34></pre>	N		
BRANCH_35_50	Number of branchlines between successive floats that are 35-50 m.	SmallInt		 BRANCH_35_50>	Ν		
BRANCH_50_99	Number of branchlines between successive floats that are $>$ 50 m.	SmallInt		 BRANCH_50_99>	N		
SHARKLINE	The total number of hooks that have been hung directly from the floatline for this set. Also referred to as Shark lines.	SmallInt		<sharkline></sharkline>	Y		
TAR_SP_CODE	Target Species id recorded on the form for this set (refer to the SPECIES table)	Char (3)	REFER TO APPENDIX 8.	<tar_sp_code></tar_sp_code>	У		
TARGET_TUN_YN	ADDITIONAL FLAG indication for MULTIPLE targeting	Bit		<target_tun_yn></target_tun_yn>	Y		
TARGET_SWO_YN	ADDITIONAL FLAG indication for MULTIPLE targeting	Bit		<target_swo_yn></target_swo_yn>	Y		
TARGET_SKH_YN	ADDITIONAL FLAG indication for MULTIPLE targeting	Bit		<t< td=""><td>Y</td></t<>	Y		
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></setdetails>	N		
BAIT1 SP CODE	Bait species id. # 1	Char (3)	REFER TO APPENDIX 8.	<bait1 code="" sp=""></bait1>	Y		
BAIT2 SP CODE	Bait species id. # 2	Char (3)	REFER TO APPENDIX 8.	<bait2_sp_code></bait2_sp_code>	Y		
BAIT3 SP CODE	Bait species id. # 3	Char (3)	REFER TO APPENDIX 8.	<bait3_sp_code></bait3_sp_code>	Y		
BAIT4 SP CODE	Bait species id. # 4	Char (3)	REFER TO APPENDIX 8.	<bait4_sp_code></bait4_sp_code>	Y		
BAIT5 SP CODE	Bait species id. # 5	Char (3)	REFER TO APPENDIX 8.	<bait5_sp_code></bait5_sp_code>	Y		
BAIT1 W	Weight of bait species #1 used, (kg)	SmallInt		<bait1_w></bait1_w>	N		
BAIT2 W	Weight of bait species #2 used, (kg)	SmallInt		<bait2_w></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></bait4_w>	N		
BAIT5_W	Weight of bait species #5 used, (kg)	SmallInt		<bait5_w></bait5_w>	N		
BAIT1_H	Hook number(s) in basket that Bait 1 was placed	NVarChar (25)	(Hook numbers separated by commas)	<bait1_h></bait1_h>	N		
BAIT2_H	Hook number(s) in basket that Bait 2 was placed	NVarChar (25)	(Hook numbers separated by commas)	<bait2_h></bait2_h>	N		
BAIT3_H	Hook number(s) in basket that Bait 3 was placed	NVarChar (25)	(Hook numbers separated by commas)	<bait3_h></bait3_h>	N		
BAIT4_H	Hook number(s) in basket that Bait 4 was placed	NVarChar (25)	(Hook numbers separated by commas)	<bait4_h></bait4_h>	N		
BAIT5_H	Hook number(s) in basket that Bait 5 was placed	NVarChar (25)	(Hook numbers separated by commas)	<bait5_h></bait5_h>	N		
BAIT1 DYED YN	FLAG indication on dyed on bait used #1	SmallInt		<bait1 dyed="" yn=""></bait1>	Y		
BAIT2 DYED YN	FLAG indication on dyed on bait used #2	SmallInt		<bait2 dyed="" yn=""></bait2>	Y		

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	Note	XML TAG	WCPFC FIELD
BAIT3 DYED YN	FLAG indication on dyed on bait used #3	SmallInt		<bait3_dyed_yn></bait3_dyed_yn>	Y
BAIT4 DYED YN	FLAG indication on dyed on bait used #4	SmallInt		<bait4_dyed_yn></bait4_dyed_yn>	Y
BAIT5 DYED YN	FLAG indication on dyed on bait used #5	SmallInt		<bait5_dyed_yn></bait5_dyed_yn>	Y
TORI LINES YN	FLAG indication on tori lines used	SmallInt		<tori_lines_yn></tori_lines_yn>	Y
BIRD_CURTAIN_YN	FLAG indication on side setting with bird curtain and weighted branch lines	SmallInt		 SIRD_CURTAIN_YN>	Y
WT LINES YN	FLAG indication on weighted lines used	SmallInt		<wt_lines_yn></wt_lines_yn>	Y
DIST_WT_HK	Record the distance in metres from where the bottom of the weight is attached on the branch line to the eye of the look.	SmallInt		<dist_wt_hk></dist_wt_hk>	Y
UW CHUTE YN	FLAG indication on underwater chute used	SmallInt		<uw_chute_yn></uw_chute_yn>	N
DEEP LINE SHOOTER	FLAG indication on whether deep lineshooter was used for this set used	SmallInt		<deep_line></deep_line>	Y
HKSJAPAN SIZE	Japanese hook size	NVarChar (50)		<hksjapan_size></hksjapan_size>	Y
HKSJAPAN PERC	% of Japanese-style hook	TinyInt		<hksjapan_perc></hksjapan_perc>	N
HKSJAPAN_ORS	Japanese-style hook offset, rings and/or swivels	NVarChar (5)		<hksjapan_ors></hksjapan_ors>	N
HKSCIRCLE SIZE	Circle hook size	NVarChar (50)		<hkscircle_size></hkscircle_size>	Y
HKSCIRCLE PERC	% of Circle hook	TinyInt		<hc>kscircle_perc></hc>	N
HKSCIRCLE ORS	Circle hook offset, rings and/or swivels	NVarChar (5)		<hkscircle_ors></hkscircle_ors>	N
HKSJ SIZE	J hook size	NVarChar (50)		<hksj_size></hksj_size>	Y
HKSJ PERC	% of J hook size	TinyInt		<hksj_perc></hksj_perc>	N
HKSJ ORS	J hook offset, rings and/or swivels	NVarChar (5)		<hksj_ors></hksj_ors>	N
HKSOTH TYPE	Other hook types description	NVarChar (50)		<hksoth_type></hksoth_type>	Y
HKSOTH SIZE	Other hook type size	NVarChar (50)		<hksoth_size></hksoth_size>	Y
HKSOTH PERC	% of Other hook types	TinyInt		<hksoth_perc></hksoth_perc>	N
HKSOTH_ORS	Others types of hook offset, rings and/or swivels	NVarChar (5)		<hksoth_ors></hksoth_ors>	Ν
OFFAL MANAGEMENT	FLAG indication whether the vessel used management of offal discharge	SmallInt		<offal_mgmt></offal_mgmt>	Y

2.4 SET-HAUL LOG DATA

		LL SETHA	ULLOG		
	period of the trip; E-Reporting p	covides the opportu	y PROVIDE the following log information f nity for high frequency position logging f the individual catch.		
FIELD	Data Collection Instructions	Field format notes	Note	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></l_set_id>	Ŷ
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></l_sethaulog_id>	Y
LOG_DATE	Date/TIME of log reading	REFER TO APPENDIX A1	Date and time required.	<log_date></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></sethaul>	Ν
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) Corresponds to when the first buoy of the mainline is hauled from the water to start the haul 86 - Last log record for the HAUL (end of HAUL information. Corresponds to when the last buoy of the mainline is hauled from water to end the haul. 91 - Float retrieval	Int	Must be 83, 84, 85, 86, 91 or NULL The WCPFC requirements are for the date/time and position (lat/lon) are required for Start and End of set, and Start and End of Haul only. NULL is used in this field for any other logged position.	<stend_id></stend_id>	N
LAT	Latitude (long format)	REFER TO APPENDIX A2		<lat></lat>	N
LON	Longitude (long format)	REFER TO APPENDIX A2		<lon></lon>	N
COMMENTS	Comments	NText		<comments></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></float_id>	Ν
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) <u>E-Monitoring ONLY</u>	<hk_bt_flt></hk_bt_flt>	N

2.5 SET CATCH DATA

The ob	LL_OBS_CATCH The observer must PROVIDE the following CATCH DETAILS for each species catch in EACH FISHING HAUL for the trip.					
FIELD	Data Collection Instructions	Field format notes	Note	XML TAG	WCPFC FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></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></l_catch_id>	Y	
CATCH_DATE	Date of individual catch event. This should relate to the DATE of the SET END or HAUL - see "SET_END_DATE" FIELD IN LL SET.	REFER TO APPENDIX A1		<catch_date></catch_date>	Y	
CATCH DTIME	Date/TIME of individual catch event	REFER TO APPENDIX A1		<catch_dtime></catch_dtime>	Ν	
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 (the "Sharkline").	SmallInt		<hook_no></hook_no>	Y	
SP_CODE	Species code.	Char (3)	REFER TO APPENDIX 8. Only shark species can have a FATE as 'RFR' and 'DFR'.	<sp_code></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 Only shark species can have a FATE as 'RFR' and 'DFR'.	<fate_code></fate_code>	Y	
COND_CODE	CONDITION of this catch on caught. (or maybe also be referred as on "Landing"). Relevant for the Species of Special Interest.	Char (2)	REFER TO APPENDIX 10	<cond_code></cond_code>	Ŷ	
COND_REL_CODE	CONDITION of this catch on RELEASE/DISCARD. Relevant for the Species of Special Interest.	Char (2)	REFER TO APPENDIX 10	<cond_rel_code></cond_rel_code>	Y	
LEN	Length (cm).	SmallInt	Refer to SPECIES RANGE table for these species	<len></len>	Y	
LEN_CODE	Length measurement code	Char (2)	REFER TO APPENDIX 11	<len_code></len_code>	Y	
WT	Weight (kgs) - must be measured weight and not a visual estimate	Decimal (5,1)		<tm></tm>	Ν	
WT CODE	Weight code.	Char (2)	REFER TO APPENDIX 22	<wt_code></wt_code>	N	
SEX_CODE	SEX of fish	Char (1)	REFER TO APPENDEX 12	<sex_code></sex_code>	Y	

The o	LL_OBS_CATCH The observer must PROVIDE the following CATCH DETAILS for each species catch in EACH FISHING HAUL for the trip.					
FIELD	Data Collection Instructions	Field format notes	Note	XML TAG	WCPFC FIELD	
SP_GR_CODE	Species/Gear interaction. Required for Species of Special Interest (SSIs)	Char (3)	APPENDIX A32 - SPECIES/GEAR INTERACTION CODES	<sp_gr_code></sp_gr_code>	Ν	
GSTAGE CODE	GONAD STAGE CODE	Char (1)	REFER TO APPENDIX 23	<gstage_code></gstage_code>	N	
COMMENTS	Comments. For TAG recoveries , record as much as information as possible on any Tags recovered	NVarChar (40)		<comments></comments>	Y	
LAT	Latitude (long format)	REFER TO APPENDIX A2	Position of each catch event E-Monitoring ONLY	<lat></lat>	N	
LON	Longitude (long format)	REFER TO APPENDIX A2	Position of each catch event E-Monitoring ONLY	<lon></lon>	N	

2.6 SPECIES OF SPECIAL INTEREST DATA (see 1.7 SPECIES OF SPECIAL INTEREST DATA)

2.7 SPECIES OF SPECIAL INTEREST DETAILS DATA (see 1.8 SPECIES OF SPECIAL INTEREST DETAIL DATA)

2.8 TRIP MONITORING QUESTIONS (see 1.11 TRIP MONITORING DATA)

2.9 TRIP MONITORING COMMENTS (see 1.12 TRIP MONITORING COMMENTS)

2.10 VESSEL/AIRCRAFT SIGHTINGS DATA (see <u>1.13 VESSEL/AIRCRAFT SIGHTINGS</u>)

2.11 MARINE DEVICES DATA (see 1.15 MARINE DEVICES DATA)

2.12 CREW DATA

	VES_CREW					
FIELD	Data Collection Instructions	y details of VE: Field format notes	SSEL CREW by NATIONALITY on this TRIP. Note	XML TAG	WCPFC FIELD	
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></obstrip_id>	Y	
CREW IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE + COUNTRY CODE			<v_crew_id></v_crew_id>	Y	
COUNTRY_CODE	Nationality of the CREW	Char (2)	Refer to valid WCPFC alpha-2 two-letter Country Codes For example, refer to WCPFC Codes web page	<country_code></country_code>	N	
CREWCOUNT	Total number of crew on board during the trip	SmallInt		<crewcount></crewcount>	Y	

2.13 LONGLINE GEAR DATA

LL_GEAR PROVIDE information on the LONGLINE GEAR on the vessel.					
FIELD	Data Collection Instructions	Field format notes	Note	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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></l_gear_id>	Y
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></wiretrace_ans>	Y
WIRETRACE_TXT	If wire traces used on all lines during the trip then record "ALL LINES" If the vessel used wire traces on certain branch lines during the trip record, where possible, information on the location of	NVarChar(20)		<wiretr_txt></wiretr_txt>	Y
MLINEHAUL ANS	the branch line where used Usage of Mainline hauler (Y/N)	Char (1)	Must be 'Y', 'N' or 'X' (observer did not respond	<mlinehaul ans=""></mlinehaul>	Y
	obage of maintine madief (1/M)	onar (r)	to this question)	_	_
MLINEHAUL USAGE CODE	Link to ref usage table	Char (3)	REFER TO APPENDIX 21	<mlinehaul_usage_code></mlinehaul_usage_code>	N
MLINEHAUL_COMMENTS	Comments on Mainline Hauler	NVarChar (50)		<mlinehaul_comments></mlinehaul_comments>	N
BLINEHAUL_ANS	Usage of Branchline hauler (Y/N)	Char (1)	Must be 'Y', 'N' or 'X' (observer did not respond to this question)	 BLINEHAUL_ANS>	Y
BLINEHAUL_USAGE_CODE	Link to ref_usage table	Char (3)	REFER TO APPENDIX 21	<pre><blinehaul_usage_code></blinehaul_usage_code></pre>	
BLINEHAUL COMMENTS	Comments on Branchline Hauler	NVarChar (50)		 BLINEHAUL_COMMENTS>	N
BLINE_MAT1_DIAM	Branchlines (Material #1) diameter	Decimal (4,1)		<bline_mat1_diam></bline_mat1_diam>	N
BLINE_MAT2_DIAM	Branchlines (Material #2) diameter	Decimal (4,1)		 BLINE_MAT2_DIAM>	Ν
LSHOOT_ANS	Usage of Line shooter (Y/N)	Char (1)	Must be 'Y', 'N' or 'X' (observer did not respond to this question)	<lshoot_ans></lshoot_ans>	Y
LSHOOT USAGE CODE	Link to ref usage table	Char (3)	REFER TO APPENDIX 21	<lshoot_usage_code></lshoot_usage_code>	N
LSHOOT COMMENTS	Comments on Line shooter	NVarChar (50)		<lshoot_comments></lshoot_comments>	N
BAITTHR_ANS	Usage of Automatic bait thrower (Y/N)	Char (1)	Must be 'Y', 'N' or 'X' (observer did not respond to this question)	<baitthr_ans></baitthr_ans>	Y
BAITTHR USAGE CODE	Link to ref usage table	Char (3)	REFER TO APPENDIX 21	<baitthr_usage_code></baitthr_usage_code>	N
BAITTHR_COMMENTS	Comments on Automatic Bait thrower	NVarChar (50)		 <baitthr_comments></baitthr_comments>	N
BRANCHATT_ANS	Usage of Automatic branchline attacher (Y/N)	Char (1)	Must be Y' , N' or X' (observer did not respond to this question)	 BRANCHATT_ANS>	Y
BRANCHATT USAGE CODE	Link to ref usage table	Char (3)	REFER TO APPENDIX 21	<branchatt_usage_code></branchatt_usage_code>	N
BRANCHATT_COMMENTS	Comments on Automatic Branchline attacher	NVarChar (50)		<pre><branchatt_comments></branchatt_comments></pre>	Ν

			GEAR		
FIELD	Data Collection Instructions	Field format notes	e LONGLINE GEAR on the vessel.	XML TAG	WCPFC FIELD
WEIGHTED BRANCH LINE ANS	Usage of weight branch line (Y/N)	Char (1)	Must be `Y', `N' or `X' (observer did not respond to this question)	<wbranch_ans></wbranch_ans>	Y (60)
STRATEGIC OFFAL DISPOSAL_ANS	Usage of strategic offal disposal (Y/N)	Char (1)	Must be Y' , 'N' or 'X' (observer did not respond to this question)	<sodis_ans></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></wt_sca_ans>	Ν
WT_SCA_USAGE_CODE	Weighing scales USAGE	Char (3)	REFER TO APPENDIX 21	<wt_sca_usage_code></wt_sca_usage_code>	N
WT_SCA_COMMENTS	Comments on Automatic B Weighing scales	NVarChar (50)		<wt_sca_comments></wt_sca_comments>	Ν
MLINE COMP	Composition of mainline	NText		<mline_comp></mline_comp>	N
BLINE COMP	Composition of branchlines	NText		 SLINE_COMP>	N
MLINE MAT	Mainline material	NVarChar (15)		<mline_mat></mline_mat>	Y
MLINE MAT DESC	Mainline material description	NVarChar (50)		<mline_mat_desc></mline_mat_desc>	N
MLINE LEN	Mainline length (nm)	Decimal (5,1)		<mline len=""></mline>	Y
MLINE DIAM	Mainline diameter (mm)	Decimal (4,1)		<pre><mline diam=""></mline></pre>	Y
BLINE_MAT1	Branchline material (Material #1)	NVarChar (40)		 BLINE_MAT1>	Y
BLINE_MAT1_DESC	Branchlines (Material #1) description	NVarChar (50)		 BLINE_MAT1_DESC>	Y
BLINE_MAT2	Branchline material (Material #2)	NVarChar (40)		 BLINE_MAT2>	Y
BLINE_MAT2_DESC	Branchlines (Material #2) description	NVarChar (50)		<pre><bline_mat2_desc></bline_mat2_desc></pre>	Y
BLINE_MAT3	Branchline material (Material #3)	NVarChar (40)		 BLINE_MAT3>	Y
BLINE_MAT3_DESC	Branchlines (Material #3) description	NVarChar (50)		<pre><bline_mat3_desc></bline_mat3_desc></pre>	Y
SEAWATER_ANS	Refrigeration method - Sea water ?	Char (1)	Must be `Y', `N' or `X' (observer did not respond to this question)	<seawater_ans></seawater_ans>	Y
BLASTFREEZER_ANS	Refrigeration method - blast freezer ?	Char (1)	Must be Y' , N' or X' (observer did not respond to this question)	 SLASTFREEZER_ANS>	Y
ICE_ANS	Refrigeration method - Ice ?	Char (1)	Must be Y' , N' or X' (observer did not respond to this question)	<ice_ans></ice_ans>	Y
CHILLEDSEAWATER_ANS	Refrigeration method - Chilled Sea water ?	Char (1)	Must be Y' , N' or X' (observer did not respond to this question)	<chilledseawater_ans></chilledseawater_ans>	Y
OTHERSTORAGE_ANS	Refrigeration method - other ?	Char (1)	Must be Y' , N' or X' (observer did not respond to this question)	<otherstorage_ans></otherstorage_ans>	Y
OTHERSTORAGE_DESC	Refrigeration method - other description	NVarChar (50)		<otherstorage_desc></otherstorage_desc>	Y

2.14 POLLUTION REPORT (see <u>1.20 POLLUTION REPORT</u> and <u>1.21 POLLUTION DETAILS</u>)

2.15 OBSERVER JOURNAL (see 1.22 OBSERVER JOURNAL)

2.16 LONGLINE TRIP REPORT

LL_TRIP_REPORT PROVIDE descriptive information on the trip.					
Po			<pre>information on the trip. nt/OceanFish/en/publications/doc download/1310</pre>	0 0014 11 trip provet	
FIELD	Data Collection Instructions	Field format notes	Note	XML TAG	WCPFC FIELD
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE			<obstrip_id></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

		LL_TH	RIP_REPORT		
	PROVIDE de	escriptive	information on the trip.		
Ref	fer to the relevant sections in http	://www.spc.:	.nt/OceanFish/en/publications/doc download/1318-2014-11-t:	rip-report	
FIELD	Data Collection Instructions	Field	Note	XML TAG	WCPFC
		format			FIELD
		notes			
8 1 3 TARGET DAMAGE	Refer to relevant section in link above)	NText	3>	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	3>	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 DATE/TIME formats must adhere to the following standard: ISO 8601 - Dates and times format – both local and UTC dates

[YYYY]-[MM]-[DD] Z	for fields designated as UTC date
[YYYY]-[MM]-[DD]	for fields designated as LOCAL date
[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 Latitude and Longitude coordinates must adhere to the ISO 6709 – Positions Degrees and minutes (to 3 decimal places where relevant).

LATITUDE +/- DDMM.MMM LONGITUDE +/- DDDMM.MMM

APPENDIX A3 – LOCATION CODES

The PORT LOCATION Codes must adhere to the list of valid WCPFC 5-letter LOCATION codes [UPPERCASE CHAR(5)]

In the rare case that the port is not in the WCFPC LOCATION codes, then the actual port name can be included and a WCFPC LOCATION code will be generated.

(Refer to the relevant WCPFC Codes web page link)

APPENDIX A4 – VESSEL IDENTIFICATION

Using a single vessel identifier field ("VID") in OBS_TRIP removes the redundancy of including all vessel attributes with each trip record and ensures standardisation and consistency through the direct referencing to the WCPFC Register of Fishing Vessels (RFV) and other Vessel Registry databases (e.g. the IMO/UVI standards, the FFA Vessel Register and the PNA Vessel Register).

The WCPFC RFV vessel identifier ("VID") will be used as the vessel identifier except in cases where, for example, it is more convenient to use the unique national vessel identifier (e.g. IRSC) and in these cases, the must be a link between the national vessel identifier and the WCPFC RFV VID established and available.

The attributes for the VESSEL should already be maintained in the WCFPC RFV (and other Vessel Registry databases, where relevant) and so can be obtained through reference in using the "VID"; as such, there is no requirement to include the vessel attributes with the E-Reported observer data.

The following table lists the type of information that can be accessed in the WCFPC RFV (and other registers) by using the "VID" as the reference.

FIELD	Data	Field format	Validation instructions	XML TAG	WCPFC
	Collection Instructions	notes			FIELD
VESSEL NAME	Instructions	CHAR (30)	Must be consistent with the	<vesselname></vesselname>	Y
VESSED NAME		UPPER CASE	WCPFC and FFA Vessel Registers	(VEOQEENTIE)	÷
COUNTRY OF		CHAR(2)	WCPFC alpha-2 two-letter	<countryreg></countryreg>	Y
VESSEL		WCPFC alpha-	country code (refer to WCPFC		
REGISTRATION		2 two-letter	codes web page)		
		country code			
		(refer to	Must be consistent with the		
		WCPFC codes	WCPFC and FFA Vessel Registers		
		web page)			
		UPPER CASE	Country of registration is		
			distinct from the chartering		
			nation, where relevant		
VESSEL		CHAR (20)	Must be consistent with the	<regno></regno>	Y
REGISTRATION NUMBER		UPPER CASE	WCPFC and FFA Vessel Registers		
FFA VESSEL		INTEGER (5)	Must be consistent with the FFA	<ffavid></ffavid>	N
REGISTER	PROVIDE the	INTEGER (5)	Vessel Register	(FFAVID)	IN
NUMBER	VESSEL attributes		Vessei Registei		
WCPFC RFV	which should	INTEGER(10)	Must be consistent with the	<win></win>	Y
VID	be	INTEODIC(IO)	WCPFC RFV		-
UNIVERSAL	consistent	INTEGER(10)	Must be consistent with the	<imo uvi=""></imo>	N
VESSEL	with the		WCPFC and FFA Vessel Registers	_	
IDENTIFIER	attributes				
(UVI)	stored in				
IMO_OR_LR	the WCPFC	INTEGER(7)	Record of IMO number or Lloyd's		
	and FFA		Register number (fishing vessel		
	Regional		at least 100GT or 100GRT)		
VESSEL IRCS	Vessel	CHAR(10)	Must be consistent with the	<ircs></ircs>	Y
- CALLSIGN	Registers		WCPFC and FFA Vessel Registers		
		UPPER CASE			
CRUISING		INTEGER (3)	Cruising speed (not top speed)	<c_speed></c_speed>	Y
SPEED			The total maximum amounts in	<f cap="" hold=""></f>	Y
		INTEGER(4)	metric Tons (MT) that the	CF_HOLD_CAP>	T
FISH HOLD			vessel freezers, wells and		
CAPACITY			other fish storage areas on a		
			vessel can hold.		
	1	INTEGER (3)	Specify length overall and the	<loa></loa>	Y
LOA			unit		
	1	INTEGER (4)	Specify the Gross registered	<v_tonnage></v_tonnage>	Y
TONNAGE			tonnage (GRT) or Gross Tonnage		
			(GT) and the unit		
ENGINE POWER		INTEGER (5)	Specify the engine power and	<eng_power></eng_power>	Y
ENGINE FOWER			the power units		

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 A5 – PURSE SEINE OBSERVER ACTIVITY CODES

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/ FAD 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)
8	Marked with Satellite/GPS Beacon
9	Navigation Radar
10	Lights
11	Flock of birds sighted from vessel
12	Other – please specify
13	FAD being deployed (so not detected)
20	Unknown

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	
DCF	Discarded - Liffe cut of Other Discarded - Difficult to land	
DFR	Discarded - fins removed and trunk discarded	
DFW	Discarded - Discarded from well	
DGD	Discarded - Gear damage	
DOD	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
СС	Curved Carapace Length
СК	Cleithrum to anterior base caudal keel
CL	carapace length (turtles)
CW	Carapace width
СХ	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
1	Indeterminate (checked but unsure)
М	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	
Туре	Description
R	Random (GRAB) sample
S	SPILL sample
В	Bycatch only sampling
F	Small-fish only sampling
0	Other type of sampling protocol (please specify)

APPENDIX A15 – MEASURING INSTRUMENTS Codes

Measure	
Code	Description
В	BOARD
С	CALLIPER - ALUMINIUM
E	EYE
R	RULER
Т	ТАРЕ
U	UNKNOWN
W	CALLIPER - WOOD

APPENDIX A16 – TRIP MONITORING QUESTION Codes

QUESTION	Description	WCPFC	WCPFC
CODE		Question	ROP Q#
RS-A	Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding	Y	14
-	to, intimidate or interefere with observers in the performance of their duties		
RS-B	Request that an event not be reported by the observer	Y	13
RS-C	Mistreat other crew	N	
RS-D	Did operator fail to provide observer with food, accommodation, etc.	Y	15
NR-A	Fish in areas where the vessel is not permitted to fish	Y	10
NR-B	Target species other than those they are licenced to target	Ν	
NR-C	Use a fishing method other than the method the vessel was designed or licensed	Y	16
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	12
NR-F	Was involved in bunkering activities	Ν	
NR-G	Fail to stow fishing gear when entering areas where vessel is not authorised to fish	Y	23
WC-A	Fail to comply with any Commission Conservation and Management Measures (CMMs)	Y	9
WC-B	High-grade the catch	Y	8
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	1
LP-B	Fail to report vessel positions to countries where required	Y	11
LC-A	Inaccurately record retained 'Target Species' in the Vessel logs [or weekly reports]	Y	2
LC-B	Inaccurately record 'Target Species' Discards	Y	3
LC-C	Record target species inaccurately [eg. combine bigeye/yellowfin/skipjack catch]	Y	6
LC-D	Not record bycatch discards	N	
LC-E	Inaccurately record retained bycatch Species	Y	4
LC-F	Inaccurately record discarded bycatch species	Y	5
SI-A	Land on deck Species of Special Interest (SSIs)	N	
SI-B	Interact (not land) with SSIs	Y	7
PN-A	Dispose of any metals, plastics, chemicals or old fishing gear	Y	20
PN-B	Discharge any oil	Y	21
PN-C	Lose any fishing gear	Y	17
PN-D	Abandon any fishing gear	Y	18
PN-E	Fail to report any abandoned gear	Y	19
SS-A	Fail to monitor international safety frequencies	Y	22
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	SPC/FFA FORM Used (for reference)
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

0005	
CODE	Description
1	CAPTAIN
2	NAVIGATOR/MASTER
3	MATE
4	CHIEF ENGINEER
5	ASSISTANT ENGINEER
6	DECK BOSS
7	СООК
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

Carla	Description	WCPFC	GEAR LIST
Code	Description	FIELD	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		Р
24	ECHO SOUNDING BUOY	-	S
25	EPIRB	-	

APPENDIX A21 – DEVICE USAGE codes

Code	Description
XXX	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
		Enlarged, richly vascular, orange ovaries, losing turgidity.
М	Mature	Ova translucent.
		Greatly enlarged ovaries, not turgid. Ova easily dislodged
R	Ripe	and extruded by pressure.
		Flaccid, vascular ovaries. Most ova gone. Often dark
S	Spent	orange-red coloration.
R	Recovering	Vascular ovaries. Next batch of ova developing.

APPENDIX A24 – FAD ORIGIN codes

FAD ORIGIN CODE	Description
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 found by your vessel
7	Deployed by FAD auxiliary 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

Р	OLLUTION 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/Berth
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/GEAR 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