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**IMPLEMENTING OBSERVER MONITORING OF TRANSHIPMENTS**

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**WCPFC19-2022-32**  
**19 November 2022**

**Paper by the Secretariat and SPC-OFP**

**Purpose**

1. The paper provides the Secretariat's report back on the steps and related considerations associated with implementing Regional Observer Programme (ROP) reporting of transhipments for WCPFC19 by 1 January 2023, as requested by TCC18 (*TCC18 Provisional Outcomes Document, paragraph 51*).

**Background**

2. The TS-IWG is tasked with a review of the transhipment measure CMM 2009-06. In response to specific taskings from WCPFC18<sup>1</sup> to address its tasking to progress transhipment observer monitoring, the TS-IWG put forward a proposal that TCC18 consider recommending that the Commission implement the collection of transhipment observer data.

3. As a result of discussion on this proposal, TCC18 has recommended the adoption of certain WCPFC ROP Minimum Standard Data Fields as data fields to be collected by transhipment observers during transhipment events as of 1 January 2023 (TCC18 draft Summary Report paragraph 193). The transhipment forms to support the collection of this data are based on elements of existing FC-1 and FC-2 guideline forms developed for this purpose some years ago although these forms have not been used by WCPFC to date (refer to **Attachment 1 A**).

4. The adoption of this reporting will require consideration of the specific use of the new data fields and the new process and systems to be established and maintained over time. As the current collection and management of WCPFC ROP data is delivered under contract by the Scientific Services Provider (SSP), they have been involved in the preparation of this paper.

5. This paper outlines the implementation stages and associated considerations to ensure that the objective of this proposed data collection for transhipment monitoring as set out in CMM 2009-06 paragraph 14, can be achieved in a way that takes account of guidance from TCC18 and supports ongoing efforts to streamline Commission processes and systems. It also considers existing work programmes in WCPFC as well as more widely in the Pacific and

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<sup>1</sup> WCPFC18 Summary Report paragraphs 309 and 310

through FAO to inform the data needs and supporting processes including the FAO's technical 'Voluntary Guidelines for Transshipment' ([Report of the Technical Consultation on Voluntary Guidelines for Transshipment \(fao.org\)](#)) and research coordinated through SPC and FFA.

6. Delivering the implementation process set out in this paper will also inform part of the required analysis currently underway for Stages 2 and 3 of the TS-IWG "*Scope of Work for the Transshipment Information Analysis in Support of the Review of CMM 2009-06*": What are the benefits, limitations, and estimated costs to WCPFC of implementing a regional observer programme specifically for carrier vessels, managed and administered by an independent organisation similar to transshipment observer programs in the IOTC, ICCAT and IATTC?"

### **Approach to Implementation**

7. The objective of this data collection for transshipment monitoring as set out in CMM 2009-06 paragraph 14 is:

*14. Observers shall monitor implementation of this Measure and confirm to the extent possible that the transshipped quantities of fish are consistent with other information available to the observer, which may include:*

- a. the catch reported in the WCPFC Transshipment Declaration;*
- b. data in catch and effort logsheets, including catch and effort logsheets reported to coastal States for fish taken in waters of such coastal States;*
- c. vessel position data; and*
- d. the intended port of landing.*

8. The application of this objective is further informed by:

- a. the TCC18 discussion and recommendations in relation to the Compliance Monitoring Scheme Future Work Components (Agenda 5.1 particularly paragraphs 9-11, refer **Attachment 1 B**) relating to the Commission's future desire to identify and consider obligations for which there is a lack of independently verifiable data; and
- b. [CMM 2018-05](#) *Conservation and Management Measure for the Regional Observer Programme* which established the framework for the Commission ROP based on the use of existing regional, subregional and national observer programmes. The objective of the ROP is "*to collect verified catch data, other scientific data, and additional information related to the fishery from the Convention Area and to monitor the implementation of the Conservation and Management Measures adopted by the Commission.*"

9. Based on this objective and guidance as well as the principles of streamlining and integrating processes and systems to collect, manage and use this additional data, the approach to implementation should consider factors including the following:

- a. existing processes and systems for the collection and management of ROP data and the flow of that data to the Commission and whether these could be used for observer transshipment data;
- b. the application of the three sets of WCPFC ER reporting standards (<https://www.wcpfc.int/electronic-reporting>);

- c. the philosophy of the WCPFC Project 93;<sup>2</sup>
- d. the work of the SPC/FFA/PNAO Data Collection Committee (DCC) in which WCPFC is an observer;
- e. the progress made through recent field work aimed at enhancing the data collection of observers monitoring and electronic monitoring systems during at sea longline transshipments, a study involving SPC and FFA in collaboration with The Nature Conservancy (TNC) and industry partners;
- f. considerations around cooperation between WCPFC and other Pacific-basin based RFMOs in respect of transshipment monitoring e.g. possible expansion of cross endorsement arrangement for purse seine observers with IATTC and operationalisation of existing transshipment observer MOC with CCSBT; and
- g. the FAO Voluntary Guidelines for Transshipment adopted under the framework of the FAO Code of Conduct in July 2022, a resource for organisations such as RFMOs which aims to assist in the development and review of transshipment regulations and their integration within the broader regulatory framework.

10. However, TCC18 has recommended that data collection using existing FC-1 and FC-2 forms, and provision of certain ROP data fields to WCPFC, should commence from 1 January 2023 (see [Attachment 1A](#)), which therefore suggests two implementation phases.

- a. short-term implementation phase; and
- b. longer-term implementation phase

#### **A. Short term implementation phase**

11. This phase aims to have observers collecting data and observer programmes submitting relevant ROP data to WCPFC as soon as possible based on existing proposed data collection and drawing on knowledge and experience from current national and subregional transshipment monitoring observer programmes. This stage will also provide a strong foundation for discussions on potential refinements to the transshipment and ROP CMMs in the medium to long term.

12. The following sections are the stages of short-term implementation that have been identified as next steps.

#### *Review and clarify the TCC18 recommended ROP Data Fields to be collected*

13. The TCC18 recommendation to WCPFC19 was that certain WCPFC ROP Minimum Standard data fields identified in the existing FC-1 and FC-2 forms would be adopted as data fields to be collected by transshipment observers during transshipment events, as of 1 January 2023 (TCC18 draft Summary Report para 193 and Attachment F).

14. In assessing the steps to support the short-term implementation phase, the Secretariat and SSP have jointly considered the data fields to be collected from forms FC-1 and FC-2 through reference to the existing ROP minimum standard data fields used for purse seine

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<sup>2</sup> Outcomes of the review of the Commission's data needs and collection programmes see <https://meetings.wcpfc.int/node/11909>

and longline trips ([Table of ROP minimum standard data fields 2016 | WCPFC](#)). The output of this assessment is the table provided in **Attachment 2** which

- a. provides an initial proposal for more specific detail on the data fields contained in the FC-1 and FC-2 forms and identifies their status as existing ROP Data Fields;
  - b. provides a clearer way to review the fields and annotate with notes on protocols for data collection, linkages to other WCPFC data types, etc; and
  - c. anticipates the move to data collection using ER applications.
15. It should be noted that the Secretariat and SSP's assessment is that there are some additional data fields on form FC-2, over and above those recommended by TCC18, that should also be considered existing ROP Minimum Standard Data Fields and would provide some verification of high seas transshipment events in the short term. These are:
- a. START DATE/TIME OF TRANSSHIPMENT
  - b. END DATE/TIME OF TRANSSHIPMENT
  - c. LATITUDE
  - d. LONGTITUDE
16. Additional data fields in **Attachment 2** that are not currently ROP data fields could be collected wherever possible in the short term but would not be mandatory in the short term. Information on catch transhipped and intended port of landing would be additional fields that would greatly assist in achieving the objective in paragraph 14 of CMM 2009-06. These could be used to provide an independent estimate of transhipped catch by species however, further work is required to define how the observer would collect and record this data. For this reason, these additional non-ROP data fields could not be considered as required data fields in the short-term implementation. TCC18 has recommended that consideration of these data fields should be further progressed through the TS-IWG and/or ROP-IWG if reactivated.
17. The table in **Attachment 2** is consistent with the approach taken in establishing the WCPFC standards for E-Reporting for operational catch effort and observer data, which avoids the redundancy and complexities in form design/layout. There is also some consideration that has been given to what data fields would be compatible with, and link to the E-reported high seas transshipment pre-notification and post-transshipment declaration data fields.

### *Data Collection*

18. Tasks for considering collection of data using the forms FC-1 and FC-2 by January 2023 include:
- i. The Table of data fields from forms FC-1 and FC-2 has been developed to provide easier reference for the work in establishing data collection (see **Attachment 2**). This table includes an explanation of each field, entity relationships, suggestions for the requirement/priority (including links to other data types) and initial notes on how it is to be collected (e.g. notes on the protocols to collect each field). The data fields in **Attachment 2** table (in conjunction with forms FC-1 and FC-2) will form the basis of data collection required to start in early 2023, but the review and

- enhancement of this draft table (dropping the forms FC-1 and FC-2) will be a task during 2023;
- ii. Instructions to observer providers on how to obtain the forms (accessible from the WCPFC website);
- iii. Instructions to observers on data collection protocols; and
- iv. Instructions to observer providers on data submission and management practices.

### *Data Management*

19. Tasks for consideration in managing the data collected by transshipment observers during 2023 include:

- i. Ability for SPC to enter the data and use it in TUFMAN2 to support data quality reviews on self-reported data and link to information provided from WCPFC TSER;
- ii. Data security level consistent with existing observer data management procedures;
- iii. Process and systems for data transfers to WCPFC based on agreed parameters;
- iv. Establish linkage to support logbook and observer trip-level comparisons.

### *ROP Capability*

20. Tasks for consideration in ROP capability include:

- i. Assessment of extent of training needs for protocols and instructions on data fields and formats – what already exists for current national and subregional transshipment monitoring observer programmes and how different or not is it?
- ii. Training development and delivery;
- iii. Readiness of observer programmes to provide transshipment observers and to establish their approach, for example specific observers trained for this purpose or all observers capable of being deployed for transshipments.

### *WCPFC data flows and supporting processes and systems*

21. TCC18 recommended that the ‘Data fields’ item of the Agreed Minimum Standards and Guidelines of the Regional Observer Programme be amended to read as follows:

“For transshipment on the high seas, transshipment ROP providers shall send the agreed ROP minimum standards data in forms FC-1 and FC-2 to the Commission Secretariat within 90 days of the disembarkation of the observer from the carrier.” (draft TCC18 Summary Report para 196)

22. Tasks for consideration in WCPFC data flows and supporting processes include:

- i. Support readiness of ROP observer programmes interested in placing transshipment observers to monitor transshipments;
- ii. System to load and use SPC data transfers;
- iii. Include a review of the link to TSER information as part of the reconciliation process carried out with CCMs each year.

## **B. Longer-term implementation phase**

23. The longer-term phase led by the TS-IWG would include, *inter alia*, the requirements for the factors listed in para 9 above, data requirements and considerations such as the inclusion on transshipment related elements in the ROP Audit process and an update of ROP documentation and reporting on transshipment observer outcomes.

### **Recommendation**

24. WCPFC19 is invited to
- a. consider adopting the Draft minimum data fields for Observer transshipment monitoring as listed in Attachment 2 as data fields to be collected by transshipment observers during transshipment events, as of 1 January 2023;
  - b. adopt the TCC18 recommendation (draft TCC18 Summary Report paragraph 196) that the ‘Data fields’ item of the Agreed Minimum Standards and Guidelines of the Regional Observer Programme be amended to read as follows:  
“For transshipment on the high seas, transshipment ROP providers shall send the agreed ROP minimum standards data in forms FC-1 and FC-2 to the Commission Secretariat within 90 days of the disembarkation of the observer from the carrier.”.
  - c. task the Secretariat and Scientific Services Provider to provide a report to TCC19 and WCPFC20 on the outcomes of implementation of the short term implementation phase; and
  - d. consider tasking the TS-IWG to include in its workplan, the matters listed in paragraph 9 to assist the Commission to consider the longer-term implications.

Attachment 1A

**Agenda Item 7.6: Review ongoing work of relevant IWG/TCC WGs**

**7.6 (a): TS-IWG**

46. TCC18 recommended that WCPFC19 adopt the WCPFC ROP Minimum Standard Data Fields identified in FC-1 and FC-2 (Attachment F) as data fields to be collected by transshipment observers during transshipment events, as of 1 January 2023.

47. TCC18 recommended that TCC20, and the IWG-ROP if it is reinitiated, consider the ROP data fields in FC-1 and FC-2 data fields and whether any revisions are necessary.

48. TCC18 recommended the TS-IWG and the IWG-ROP if it is reinitiated, consider FC-3 and its data fields for inclusion in the WCPFC ROP Minimum Standard Data Fields.

49. TCC18 recommended that the 'Data fields' item of the Agreed Minimum Standards and Guidelines of the Regional Observer Programme be amended to read as follows:

*“For transshipment on the high seas, transshipment ROP providers shall send the agreed ROP minimum standards data in forms FC-1 and FC-2 to the Commission Secretariat within 90 days of the disembarkation of the observer from the carrier.”*

50. TCC18 noted that the Commission has already adopted electronic reporting standards for observer data and that the development of standards for electronic reporting by transshipment observers or providers in 2023 could significantly shorten the required timeline for electronic reporting of transshipment observer data to the Secretariat.

51. TCC18 requested the Secretariat to report on the implementation of observer reporting of transshipments for WCPFC19.

Attachment 1B

**Agenda Item 5: Monitoring and Review of Compliance**

**Agenda Item 5.1 Compliance Monitoring Scheme Future Work Components**

9. TCC18 noted the imbalance between the information available for monitoring compliance between the longline and purse seine fisheries and recommended that the Commission recognizes the need to address this imbalance.

10. TCC18 noted that compliance with some obligations cannot be independently verified from available data sources. TCC18 recommended that WCPFC19 task the Secretariat to develop a paper, which identifies those obligations for which there is a lack of independently verifiable data, as well as potential sources of data that could provide independent verification of those obligations, for review by TCC19.

11. TCC18 recommended that the Commission prioritize the development of additional data collection mechanisms for some obligations to allow for more timely and verifiable data to feed into the CMR process. TCC18 noted in particular that there is ongoing work related to electronic reporting and electronic monitoring and transshipment reporting that will allow for more verifiable data to feed into the CMR process.

12. TCC18 noted that some quantitative limits and baselines for some CMMs are not easily accessible to CCMs. TCC18 recommended that WCPFC19 task the Secretariat to publish tables of CCM's limits and baselines for all relevant CMMs, and notes on their sources.

13. TCC18 noted that greater clarity about the basis for determining applicability of obligations may assist CCMs with their annual reporting. TCC18 recommended that WCPFC19 task the Secretariat to update and develop additional guidelines to support determining the applicability of obligations for review by TCC19. TCC18 recommended that once the applicability has been reviewed by TCC, it is integrated and held on file in the Annual Report Part 2 reporting system.

14. TCC18 noted that additional guidance on reporting statements of implementation may assist CCMs with their annual reporting. TCC18 recommended that WCPFC19 task the Secretariat to update and develop additional guidelines to support CCMs reporting of statements of implementation for review by TCC19.

15. TCC18 recommended to WCPFC19 that it task the Secretariat to maintain the information relevant to the Risk Based Assessment Framework, a list of all binding obligations, audit points, data sources, compliance history and other information which supports the draft CMR in one place associated with information related to the Compliance Monitoring Scheme and Conservation and Management Measures.

Attachment 2

Draft minimum data fields for Observer transshipment monitoring, based on the data fields in forms FC-1 and FC-2

<b><u>TRANSSHIPMENT OBSERVER TRIP</u></b>			
Represents period when an observer embarks on a carrier vessel to the point of disembarkation. Equivalent to the Form FC-1 (Fish Carrier General Vessel Description). There will be one or many transshipment observations during a transshipment observer trip.			
<b>FIELD</b>	<b>Description</b>	<b>Mandatory ?</b>	<b>Notes on relevant ROP and other WCPFC data linkages</b>
OBSERVER TRIP IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be OBSERVER NAME + CARRIER VESSEL + OBSERVER EMBARKATION/START DATE
OBS_NAME	Observer NAME.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
OBSPRG_CODE	OBSERVER SERVICE PROVIDERS identification- National or sub-regional observer programmes	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
OBS_CODE	An observer CODE will be provided in this field. In these cases, the code will be unique and link to a reference table which will include Observer Name, Nationality of observer, Observer provider, etc.	<b>YES</b>	Will provide link to Observer Nationality which is a WCPFC ROP minimum standard data field
OBSERVER TRIPNO	Unique TRIPNO for each observer in a given year.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
OBSERVER 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.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
OBSERVER 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.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
CARRIER VESSEL IDENTIFIER	Name of the <u>carrier vessel</u> , <u>country of registration</u> , <u>registration number</u> , <u>WIN NUMBER</u> , and <u>international radio call sign</u> :  The registration number is the number assigned to the carrier vessel by the state that has flagged the carrier vessel. A code may be used as a carrier vessel identifier instead of the name of the carrier vessel, registration number and call sign for carrier vessels.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP  Using a carrier vessel identifier field (ideally the WCPFC VID) removes the redundancy of including all carrier vessel attributes with each trip record and ensures standardisation and consistency through referencing the WCPFC Vessel Registry database.

## TRANSSHIPMENT OBSERVER TRIP

Represents period when an observer embarks on a carrier vessel to the point of disembarkation. Equivalent to the Form FC-1 (Fish Carrier General Vessel Description). There will be one or many transshipment observations during a transshipment observer trip.

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
			Vessel attributes in the WCPFC Vessel Registry database will include the following required on this form <ul style="list-style-type: none"> <li>- CARRIER VESSEL TONNAGE</li> <li>- CARRIER VESSEL LOA</li> <li>- CARRIER TOTAL HOLD CAPACITY</li> </ul>
CARRIER DATE and TIME OF DEPARTURE from PORT	Depart DATE/TIME the vessel leaves a port to start the next set of transshipment operations.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
CARRIER DATE AND TIME OF RETURN IN PORT	DATE/TIME for the vessel to return to port	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
CARRIER PORT OF DEPARTURE	The start of a trip is defined to occur when a carrier vessel leaves port after unloading part or all of the catch to transit to the next set of transshipments.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
CARRIER PORT OF RETURN	The first port of return for the carrier to unload transshipped catch to processing plants/markets.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
VESOWNER	NAME of the vessel owner	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
FISH HOLD CAPACITY	The total maximum amounts in metric Tons (MT) that the vessel freezers, wells and other fish storage areas on a vessel can hold.	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP  Note that observer data providers may use a separate vessel attributes table, linked via a vessel identifier field ("VID") which removes the redundancy of including this vessel attribute at the observer trip level and ensures standardisation and consistency.
VESCAPT_NAME	NAME of the captain of the vessel	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
VESCAPT_NATION	NATIONALITY of the captain of the vessel	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
CREW_TOTAL	Total number of CREW on-board, including captain and officers, during the trip (does not include observer).	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP
IATTC_AREA	Operate in the IATTC Area	<b>NO</b>	
IATTC_PERIOD	What periods did operations occur in IATTC area	<b>NO</b>	
COMMUNICATION SERVICES	A range of communication services (Phones, etc.)	<b>YES</b>	WCPFC ROP minimum standard data field - MARINE DEVICES

## TRANSSHIPMENT OBSERVER TRIP

Represents period when an observer embarks on a carrier vessel to the point of disembarkation. Equivalent to the Form FC-1 (Fish Carrier General Vessel Description). There will be one or many transshipment observations during a transshipment observer trip.

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
VMS_TYPE	TYPE OF VMS	YES	WCPFC ROP minimum standard data field - MARINE DEVICES
VMS_OPN	Question on whether VMS is operational or not	NO	
COMMENTS_FISH_WEIGHT	Comments on how fish are weighed or weight is estimated	NO	
COMMENTS_OTHER	Other comments	NO	

## Transshipment Observation – HEADER INFORMATION

The observer must provide the information in this table for EACH TRANSSHIPMENT OBSERVATION EVENT (Vessel offloading). There will be one or many Transshipment Observations for each TRANSSHIPMENT OBSERVER TRIP (see above). This information corresponds to the Form FC-2 header information (Observer trip, Offloading Fishing Vessel Details, Carrier/Receiving vessel details and transshipment details).

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
OBSERVER TRIP IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be OBSERVER NAME + CARRIER VESSEL + OBSERVER EMBARKATION/START DATE
TRANSSHIPMENT OBSERVATION IDENTIFIER	<p>The following data fields are included in the "Transshipment Observer Trip" table above, so are not included here to avoid redundancy:</p> <ul style="list-style-type: none"> <li>- OBS_NAME</li> <li>- OBSPRG_CODE</li> <li>- OBS_CODE</li> <li>- OBSERVER TRIPNO</li> <li>- OBSERVER DATE and TIME OF EMBARKATION</li> <li>- OBSERVER DATE AND TIME OF DISEMBARKATION</li> <li>- CARRIER (RECEIVING) VESSEL IDENTIFIER</li> <li>- CARRIER DATE and TIME OF DEPARTURE from PORT</li> <li>- CARRIER DATE AND TIME OF RETURN IN PORT</li> <li>- CARRIER PORT OF DEPARTURE</li> <li>- CARRIER PORT OF RETURN</li> </ul>	<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be CARRIER VESSEL + OFFLOAD VESSEL + OBSERVER EMBARKATION/START DATE + TRANSSHIPMENT EVENT DATE
OFFLOADING VESSEL IDENTIFIER	<p>Name of the <u>offloading vessel</u>, <u>country of registration</u>, <u>registration number</u>, <u>WIN NUMBER</u>, and <u>international radio call sign</u>:</p> <p>The registration number is the number assigned to the offloading vessel by the state that has flagged the offloading vessel. A code may be used as a offloading vessel identifier instead of the name of the offloading vessel, registration number and call sign for offloading vessels.</p>	<b>YES</b>	<p>WCPFC ROP minimum standard data field - General Vessel and trip Information</p> <p>Also there are linkages with the requirement to report fishing vessel information in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a>)</p> <p>Using a offloading vessel identifier field (ideally the WCPFC VID) removes the redundancy of including all offloading vessel attributes with each trip record and ensures standardisation and consistency through referencing the WCPFC Vessel Registry database.</p>
START DATE/TIME OF TRANSSHIPMENT	The start date and time when catch is first transshipped from the fishing vessel to the carrier vessel (constituting a transshipment event).	<b>YES</b>	WCPFC ROP minimum standard data field - Date and time of return to port
END DATE/TIME OF TRANSSHIPMENT	The end date and time when the last of the catch is transshipped from the fishing vessel to the carrier vessel (constituting a transshipment event).	<b>YES</b>	Linkages to the requirement for the offloading/fishing vessel to report the date when a trip finishes due to a transshipment at sea in operational catch/effort data submissions (see

## Transshipment Observation – HEADER INFORMATION

The observer must provide the information in this table for EACH TRANSSHIPMENT OBSERVATION EVENT (Vessel offloading). There will be one or many Transshipment Observations for each TRANSSHIPMENT OBSERVER TRIP (see above). This information corresponds to the Form FC-2 header information (Observer trip, Offloading Fishing Vessel Details, Carrier/Receiving vessel details and transshipment details).

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
			Scientific data to be provided to the Commission - <a href="#">SciData</a> )
LAT	Latitude where transshipment event took place	YES	Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).  Potential linkages to the requirement for the offloading/fishing vessel to report the position when a trip finishes due to a transshipment at sea in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a> )
LON	Longitude where transshipment event took place	YES	Relevant to comparing with the logsheet reported catch provided in the in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a> ).  Instructions for the protocol for estimating this value needs to be determined.
TOTAL WEIGHT TRANSFERRED	The total weight of the transferred catch in kilograms.	NO	Relevant for estimating the TOTAL WEIGHT TRANSFERRED.  Instructions for the protocol for estimating this value needs to be determined.
AVG_TS_HOUR_NUM BER	The average number of fish transferred per hour.	NO	Relevant for estimating the TOTAL WEIGHT TRANSFERRED.  Instructions for the protocol for estimating this value needs to be determined.
AVG_TS_HOUR_NUM BER	The average weight (kilograms) of fish transferred per hour.	NO	Relevant for estimating the TOTAL WEIGHT TRANSFERRED.  Instructions for the protocol for estimating this value needs to be determined.
FISHVESS_OBSV_Y N	Is there an observer on the fishing (offloading) vessel ?	YES	WCPFC ROP minimum standard data field - OBSERVER TRIP  Linkages to Observer ROP fishing vessel trip.
FISHVESS_OBSV_N AME	Observer NAME.	YES	WCPFC ROP minimum standard data field - OBSERVER TRIP  Linkages to Observer ROP fishing vessel trip.

## Transshipment Observation – HEADER INFORMATION

The observer must provide the information in this table for EACH TRANSSHIPMENT OBSERVATION EVENT (Vessel offloading). There will be one or many Transshipment Observations for each TRANSSHIPMENT OBSERVER TRIP (see above). This information corresponds to the Form FC-2 header information (Observer trip, Offloading Fishing Vessel Details, Carrier/Receiving vessel details and transshipment details).

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
FISHVESH_OBSPRG_CODE	OBSERVER SERVICE PROVIDERS identification- National or sub-regional observer programmes	<b>YES</b>	WCPFC ROP minimum standard data field - OBSERVER TRIP  Linkages to Observer ROP fishing vessel trip.

## Transshipment Observation – SPECIES CATCH INFORMATION

The observer must provide the information on the CATCH BY SPECIES from EACH TRANSSHIPMENT OBSERVATION EVENT (Vessel offloading). There will be one or many SPECIES CATCH records for each TRANSSHIPMENT OBSERVATION EVENT (see above). This information corresponds to the Form FC-2 Catch and Weight of Product (kg) information.

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
OBSERVER TRIP IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be OBSERVER NAME + CARRIER VESSEL + OBSERVER EMBARKATION/START DATE
TRANSSHIPMENT OBSERVATION IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be CARRIER VESSEL + OFFLOAD VESSEL + OBSERVER EMBARKATION/START DATE + TRANSHIPMENT EVENT DATE
TRANSSHIPMENT OBSERVATION CATCH IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be CARRIER VESSEL + OFFLOAD VESSEL + OBSERVER EMBARKATION/START DATE + TRANSHIPMENT EVENT DATE + SPECIES CODE + CATCH_AREA
SP_CODE	Species code. (Refer to the FAO Standard species codes)	<b>YES</b>	Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).  WCPFC ROP minimum standard data field - SET CATCH  Also there are linkages with the requirement to report fishing vessel information in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a> ).
CATCH_AREA	Indicate the broad RFMO Catch area : WCPFC, IATTC, IOTC or ICCAT	<b>YES</b>	Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).  WCPFC ROP minimum standard data field - SET CATCH  Also there are linkages with the requirement to report fishing vessel information in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a> ).
FISH_STATE_CODE	The state of this species catch Fresh (FR) or Frozen (FZ)	<b>NO</b>	
PROCESSING_CODE	Type of processing of the offloaded species catch (Use WCPFC standard weight code reference table). WW - Whole weight GG - Gilled and gutted GH - Gilled, gutted and headed	<b>NO</b>	Equivalent to WCPFC ROP Weight Measurement codes

## Transshipment Observation – SPECIES CATCH INFORMATION

The observer must provide the information on the CATCH BY SPECIES from EACH TRANSSHIPMENT OBSERVATION EVENT (Vessel offloading). There will be one or many SPECIES CATCH records for each TRANSSHIPMENT OBSERVATION EVENT (see above). This information corresponds to the Form FC-2 Catch and Weight of Product (kg) information.

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
	GT - Gilled gutted and tailed TR - Gutted, headed and tailed (trunk weight) OT - Other, please specify		
SP_WEIGHT	Weight (kilograms) of this species transshipped (within area, with corresponding fish state and processed type).	<b>YES</b>	Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).  Potential linkages to the requirement for the offloading/fishing vessel to report the position when a trip finishes due to a transshipment at sea in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a> )
SP_NUMBER	(Estimated) Number of this species transshipped (within area, with corresponding fish state and processed type).	<b>NO</b>	Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1), if "Quantity" refers to catch in NUMBER.  Potential linkages to the requirement for the offloading/fishing vessel to report the position when a trip finishes due to a transshipment at sea in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a> )

## Transshipment Observation – SPECIES CATCH OBOARD INFORMATION

The observer must provide the information on the CATCH BY SPECIES already onboard the receiving vessel prior to EACH TRANSSHIPMENT OBSERVATION EVENT (Vessel offloading). There will be one or many SPECIES CATCH OBOARD records for each TRANSSHIPMENT OBSERVATION EVENT (see above). This information corresponds to the Form FC-2 weight of Catch Onboard information.

FIELD	Description	Mandatory ?	Notes on relevant ROP and other WCPFC data linkages
OBSERVER TRIP IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be OBSERVER NAME + CARRIER VESSEL + OBSERVER EMBARKATION/START DATE
TRANSSHIPMENT OBSERVATION IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be CARRIER VESSEL + OFFLOAD VESSEL + OBSERVER EMBARKATION/START DATE + TRANSSHIPMENT EVENT DATE
TRANSSHIPMENT OBSERVATION CATCH OBOARD IDENTIFIER		<b>YES</b>	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be CARRIER VESSEL + OFFLOAD VESSEL + OBSERVER EMBARKATION/START DATE + TRANSSHIPMENT EVENT DATE + SPECIES CODE + CATCH_AREA
SP_CODE	Species code. (Refer to the FAO Standard species codes)	<b>NO</b>	<p>Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).</p> <p>WCPFC ROP minimum standard data field - SET CATCH</p> <p>Also there are linkages with the requirement to report fishing vessel information in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a>).</p>
CATCH_AREA	Indicate the broad RFMO Catch area: WCPFC, IATTC, IOTC or ICCAT	<b>NO</b>	<p>Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).</p> <p>WCPFC ROP minimum standard data field - SET CATCH</p> <p>Also there are linkages with the requirement to report fishing vessel information in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a>).</p>
SP_WEIGHT	Weight (kilograms) of this species catch onboard the carrier vessels prior to the transshipment commencing.	<b>NO</b>	<p>Linkages to the data requirements for Carrier transshipment declaration (CMM 2009-06 - ANNEXZ 1).</p> <p>Potential linkages to the requirement for the offloading/fishing vessel to report the position when a trip finishes due to a transshipment at sea in operational catch/effort data submissions (see Scientific data to be provided to the Commission - <a href="#">SciData</a>)</p>

