



TECHNICAL AND COMPLIANCE COMMITTEE
Tenth Regular Session
25 - 30 September 2014
Pohnpei, Federated States of Micronesia

**EXECUTIVE DIRECTORS REPORT ON OPERATIONAL ISSUES WITH WCPFC MCS
PROGRAMMES AND TO THE TCC**

WCPFC-TCC10-2014-12
20 September 2014

Paper prepared by the Secretariat

1. This report consolidates the main findings and recommendations from the technical and operational papers prepared for TCC as required under the Convention and the related CMMs, and as directed by the Commission. This is the second year that the Secretariat has provided this paper, and this year the report is structured following the order of the TCC10 agenda (agenda number is provided in brackets).¹

Cooperating Non-Member requests (3)

2. (WCPFC-TCC10-2014-08) Early in 2014, the Secretariat worked with the 2013 co-Chairs of the WCPFC CNM working group and finalized a pdf form; the form was provided to all current CNMs and potential CNMs on or after 12 June 2014. The form was produced by the Secretariat noting TCC9 discussions, and with a view to assisting the small working group on Cooperating Non-Members with its work at TCC and WCPFC meetings.
3. As at 9th September 2014, all seven CNM requests have been received by WCPFC Secretariat using the pdf form. Copies of the requests, a spreadsheet that compiles the information and any covering letters are provided as attachments to TCC10-2014-08 (the attachments are only available on the secure CCM section of WCPFC website).

Compliance Monitoring Scheme (6)

TCC's review of the full draft CMR (6.1)

4. (TCC10-2014-10) 38 individual CCMs and two collective groups of Members received draft Compliance Monitoring Reports (draft CMR) on 28 July 2014 from the Secretariat. The full draft CMR, which incorporated replies from 23 CCMs was made available to all CCMs on 5th September 2014. In 2014, the information that the Secretariat reviewed to prepare the draft CMR benefitted from the previous year investments by Commission on developing and

¹ Version revision 1 as at 29 August 2014

enhancing the WCPFC IMS hosted databases for CMM reporting – this is a trend that the Secretariat expects will continue into 2015.

5. Explanatory notes on the documentation that the Secretariat has provided to support TCC10's review of the full draft CMR are provided in TCC10-2014-10. This year's draft CMR was the longest and biggest draft CMR since the Compliance Monitoring Scheme was established: the process of developing, reviewing and finalizing the full draft CMR report has become an information management exercise that is heavily dependent on:
 - i. The WCPFC online reporting systems which are used by CCMs and the Secretariat, as well as the integrated MCS information management system and its further developments;
 - ii. CCMs being able to meet specified deadlines for completion of their annual reporting (particularly fished and did not fish reports, Annual Report Part 1 and Annual Report Part 2 which are one of the primary information sources that are necessary for many parts of the draft CMR); and
 - iii. The WCPFC Secretariat MCS/compliance staff necessarily having to carefully work program their time and other commitments during the period of late April through the end of September, to meet the specified draft CMR deadlines and TCC annual meeting deadlines.
6. Draft CMRs were successfully delivered this year, and some considerable hours were worked over the last couple of months by the Compliance/MCS team. The current CMS timelines does not leave much to chance, and TCC10 papers were a little later this year than we would like. Nonetheless the agreement at WCPFC10 of the full draft CMR report template did assist us with successfully work-planning and delivering the draft CMRs as required. The WCPFC does not have a dedicated budget line for CMR system development; instead maintenance and ongoing costs come from the IMS-related budget lines.
7. A suggestion is made in the paper (TCC10-2014-10, paragraph 29) that, in addition to confirming the structure for draft CMRs, for the Commission to annually agree on the CMM paragraphs and Convention provisions which would be reported on by CCMs in Annual Report Part 2 and to be included in draft CMR. The Secretariat would like guidance from the CMS-WG/TCC on the reporting format that was used in 2014 draft CMR for reviewing "*alleged incidents of possible non-compliance*" within draft CMRs, and whether there are any recommendations for improvement (TCC10-2014-10 paragraph 26).
8. Other supporting papers relevant to this agenda item:
 - (TCC10-IP01) Notes that there were improvements in the timeliness of submissions of Annual Report Part 1 and Part 2 during 2014, which did assist the Secretariat with being able to meet the deadline for draft CMRs.
 - (TCC10-IP04) Is the updated Scientific Data Gaps paper is provided, which the Secretariat referenced in the preparation for the full draft CMR section vi) *Provision of Scientific Data* information.
 - (TCC10-IP02) provides a copy of the WCPFC10 agreed Final Compliance Monitoring Report.
 - (TCC10-IP05) explains the current status of information on ROP data submissions for 2013 activities, and available information on longline observer coverage.

Target capacity assistance to areas identified by CMR process (6.3)

9. (TCC10-2014-10) – refer to Table 2 on page 7 for a list of the CMM paragraphs which were noted by CCMs in their Annual Report Part 2 or replies to draft CMRs as areas where certain SIDS require assistance.

10. At the end of March 2014, the WCPFC Secretariat attended the FFA MCS Working Group meeting and working alongside the FFA Secretariat, was able to assist many FFA members with their Annual Reports Part 2. In addition, throughout the year the Secretariat was able to work with and assist many CCMs electronically with their Annual Reports Part 2 and draft CMR reporting – this assistance was often in response to specific requests from CCMs, or CCMs accepting the Secretariat offers to assist them. There was a 2014 budgetary allocation of USD80,000 for targeted capacity building with a note that it was *proposed to be directed to specific areas identified in the CMR process and Annual Report Part 2 assistance, and if funds permit to specific needs identified in the CMR process*. Spending to date against this line item includes partial costs of one WCPFC staff attending the MCSWG, and costs of additional DSA to some FFA participants who attended the Em-and-Er Workshop in Honiara (see WCPFC Circular 2014-05).

Revise CMMs prioritized by CMS which were ambiguous or problematic (6.4)

11. (TCC10-2014-10) refer to Table 3 on page 9 for a list of CMM paragraphs which might be useful for TCC to consider under this agenda item.

Vessel Monitoring System (VMS) (8.1)

12. (TCC10-2014-RP01) The Commission continued its association with the FFA and the Pacific VMS which is based on a system supported by Polestar (ex-Absolute) and hosted in the Macquarie data Centre in Sydney. This system operates as two separate and distinct entities to protect the integrity of the Commission VMS data. The cost to the Commission of this system has remained stable at around \$400,000 per annum, and currently there are almost 3500 vessels reporting to the WCPFC VMS.

13. Early in the year the Compliance Manager and VMS Manager participated in the FFA VMS tender review. At the time of writing no final decision has been made on the tendering process except that FFA will continue with the current VMS arrangements. It seems that there remains some scope for further cost-efficiencies for VMS services, and we will continue to work with FFA Secretariat colleagues on this aspect.

14. Other in house developments during 2014:

- Improved Vessel Tracking Agreement Format (VTAF) record management, through the implementation of an IMS-hosted database module;
- Implementation of VMS manual position reports databases IMS-hosted database module;
- Since TCC9, there have been no further notifications of “flick the switch” (WCPFC9 decision on application of the WCPFC VMS to WCPFC members waters); and
- Continued support to high seas MCS operations.

Expiry of VMS manual reporting position reporting requirements on 1 March 2015 (VMS SSPs, Section 5) (8.1a)

15. Since 1 March 2013, the Secretariat has received approximately 4,700 manual reports from 170 fishing vessels. A list of vessels that the Secretariat has received manual reports is provided in Annex 2 to TCC10-2014-RP01. The WCPFC Secretariat and FFA Secretariat have ongoing work to establish a mechanism for VMS manual reports to be included

16. Through 2014, we have worked with the FFA on VMS matters, including aligning of the WCPFC RFV with the WCPFC VMS database, and the FFA Good Standing Lists. Once completed, this is expected to provide a necessary first step, towards providing the Secretariat with enhanced capability to monitor and check reporting of vessels on the RFV, to monitor CMMs such as high seas transshipment reporting, and EHSP-SMA. Further work

is planned in 2014/15 which should strengthen the ability of the WCPFC VMS team to use IMS-based IT tools to assist them with monitoring and administering of the VMS Manual Reporting Procedures, should they be extended beyond March 2015.

Review SLAs with Mobile Satellite Provider, develop ALC type approval process – (TCC workplan 2013-2015) (8.1b)

17. The WCPFC currently has SLAs for mobile satellite communications with SatComms (Inmarsat C and Faria), Vizada (Inmarsat C), CLS Argos (Thorium, LEO and Argos). The cost to the Commission of this system has had only marginal increase over time, and is currently at around \$95,000 per annum. Figure 1 on page 2 of TCC10-2014-RP01 shows the current proportion of vessels reporting by channel on the WCPFC VMS. MTU/ALC type approval list as provided by CCMs are listed in Annex 4 of TCC10-2014-RP01.
18. As noted on page 6 of TCC10-2014-RP01 VMS service provider has not been able to provide gateways for DMR 800D MTUs. 39 vessels have installed these units. It is expected that CCMs whose vessels are using MTUs for which WCPFC VMS has not established a gateway, will be required to pay for the cost of developing new gateways to cater for these units. In addition, recent information suggests that the service provider for these units may be scaling back service to these units before the end of 2014.
19. Since 2013, the WCPFC Secretariat has provided CCMs with an electronic facility to report their MTU audit inspection results. The list of countries and the number of MTU inspections by vessel type is appended in Annex 3 of TCC10-2014-RP01, and proportion of MTU types which were inspected is shown in Figure 2 of TCC10-2014-RP01.

Regional Observer Programme (8.2)

20. (TCC10-2014-RP02) The regional observer program in the WCPFC has continued to develop and improve over the last year. A 2013 survey indicated there were approximately 720 available observers across all the ROP programmes for use as ROP observers; the latest available figures indicate a similar number is available in 2014. The Pacific Island ROP's managed to supply observers for most of the 100% observer coverage of purse seiners, however with 5% coverage of long liners and 100% coverage of carriers transshipping at sea, as well as the usual attrition rate that occurs in observer programmes, training is required for most observer programmes on a continual basis. Non-Pacific Island countries of the Commission also have available observers that are being used in ROP trips to collect data as required by the Commission. There are a total 21 observers from FSM, Nauru, Kiribati and RMI with IATTC/WCPFC cross endorsement certification.
21. The ROP section of the Secretariat has continued to support observer and debriefer training sessions of Members, and in 2014 a USD30,000 budget was provided for this activity. These include, trainings at the WCPFC training centre in FSM; assistance was also given on request to help the Philippines and Chinese Taipei with observer and debriefer training; and staff have participated in observer related meetings and workshops within the region.
22. The main issues to emerge from the program that require TCC10's consideration and which are not otherwise noted in the agenda are as follows:
 - i) A second phase of audits commenced in 2014 to ensure ROP standards are maintained, and a schedule was approved as guidance by WCPFC10. The current annual budgetary allocation USD15,000 is sufficient and should be maintained; (TCC10-2014-RP02, 3.1 – 3.2)
 - ii) The paper *Status of ROP Data Management*” WCPFC-SC10-2014/ST IP-03 presented at the Science Committee on data management indicates the amount of data

that has been entered and also highlights possible data gaps and other problems in receiving the data for entry. (see TCC10-2014-IP05);

iii) Presently the WCPFC Secretariat does not have sufficient information to review implementation by flag CCMs of longline ROP coverage requirements and by observer providers of ROP data submission requirements;

iv) It was agreed that the Secretariat ROP should receive on a regular basis the total amount of ROP observer trips carried out by each programme on long liners, purse seiners and fish carriers. This will assist in determining observer coverage, it is also would assist SPC to determine the data they expect to receive from these trips. Whilst there has been some progress made in supplying this information, there still remains a small number of programmes who do not supply this information; (TCC10-2014-RP02, 4.1 – 4.6)

v) In response to the TCC9 paragraph 182 tasking, the Secretariat has developed guidelines for observer credentials, see TCC10-2014-RP02, 19.2 and some examples are provided in Attachment 3 of that paper)

23. Suggested action to establishing guidelines for observer credentials:

a. Agree to recommend the following as minimum required information to be included on the front of each ROP Identification Card:

- 1) Name of the observer
- 2) Name of the observer provider
- 3) Nationality of the observer
- 4) Unique identifying number for the observer
- 5) Passport style photo of the observer.

b. Agree to recommend the following be minimum required information that could be placed on either the front or back of the card ROP Identification Card:

- 6) Issue date and Expiry date
- 7) WCPFC logo to indicate observer is ROP observer
- 8) Logo of Programme and or Country Flag
- 9) Optional information that could be included on the back of the card
- 10) Signature of Observer
- 11) Status of observer Qualifications

24. Suggested action to add a new minimum data field:

- The data field ‘Vessel Unique Identifier’ International Maritime Organisation (IMO) number or Lloyds register number required as per CMM 2013-04 be added to the list of minimum standard data fields an observer is asked to collect from vessels that are more than 100 GT or GRT.

Measuring and monitoring ROP longline coverage (TCC9 para 117) (8.2a)

25. (TCC10-2014-13_rev1) By 30 June 2012 longliners were to have achieved 5% ROP coverage. In 2013, it was clear that some CCMs were not aware of what was required and have indicated that they need assistance and guidance from the Secretariat. TCC9 considered this issue, and agreed further work was needed on a joint WCPFC/SPC paper proposing clearer guidelines for satisfying the obligations for ROP longline observer coverage. The paper TCC10-2014-13, considers discussions that occurred in the margins of SC10 meeting

in Majuro, and additional information that the Secretariat and SPC have received from CCMs.

26. Suggested actions: to clarify action needed by CCMs to meet 5% ROP observer coverage requirement on longliners:

- a. agree to recommend the guidelines for ROP longline coverage by fleet/fishery described in Table 1 of TCC10-2014-13_rev1;
- b. agree to recommend that CCMs
 - i. Decide on the observer coverage metric and then compile the observer coverage using this metric for their fleet activity in 2013 (as required in Tables 2 and 3 TCC10-2014-13_rev1) and submit this information to the WCPFC Secretariat before 28 February 2015, and
 - ii. (for subsequent years) Compile and include this information in their respective Annual Report Part 1 to be submitted from 2015 onwards.
- c. agree to recommend that the WCPFC Science/Data service provider compiles estimates of total activity of each fleet for each of the four metrics (outlined by the SC10 ISG7) to be included in the proposed template (Table 3 TCC10-2014-13_rev1)
 - i. For 2013 activities, this information should be combined in the template (Table 3) with the observer coverage provided by the CCMs (deadline 28th February 2015) and made available by 30th March 2015.
 - ii. For subsequent years, this information should be combined in the template (Table 3 TCC10-2014-13_rev1) with the observer coverage provided by the CCMs (in their Part 1 reports) and made available for SC and TCC;
- d. agree to provide advice to the Commission on the best metric of observer coverage for compliance purposes;
- e. agree to recommend that the WCPFC Secretariat (with assistance from the Science/Data service provider) compile the information reported by CCMs on longline observer coverage and report the information included in Tables 2 and 3 in papers tabled for future SC and TCC meetings.

ROP and addressing corruption concerns (TCC9 para 184 and 204) (8.2b)

27. Two papers have been prepared in response to TCC9 recommendations:

- (TCC10-14) Is a discussion paper on addressing observer-related corruption matters. Some suggestions are provided on page 6 of the paper;
- (TCC10-14A) Is a paper on minimum standards on preventing and deterring misconduct of observers - It should be noted that instances of misconduct are being less reported today, compared to the number of report soon after the start of the ROP in 2006; problematic observers have been removed from programmes and observer have become aware of the consequences. However the paper does recognise there are some ongoing problems in this area and tries to come up with solutions. Some suggestions are provided on page 5- 7 of the paper.

Notification requirements for monitoring observer coverage on carriers involved in high seas transshipment activities (TCC9 para 177) (8.2c)

28. (TCC10-2014-RP02, paragraph 12.9 on page 8): It is suggested the following be given consideration, but note that reporting to the Commission Secretariat is not intended to negate any current zone or port entry or exit procedures.

- All fish carriers, 24 hrs prior to entry of the vessel into the WCPFC Convention area must inform the Commission Secretariat on their intentions to either tranship at sea, tranship in a designated port, or tranship both in port and on the high seas.
- All fish carriers, 24 hrs prior to departing a port in the WCPFC Convention area must inform the Commission Secretariat on their intentions to tranship at sea or tranship in a designated port or tranship both in port and on the high seas.
- All fish carriers on completion of their transshipping activities at sea or in port in the WCPFC Convention Area must inform the WCPFC Secretariat within 24hrs of their destination port.
- Carriers intending to tranship at sea on entry into the Convention area, or departing from a port in the Convention area, will notify to the Commission Secretariat the name of the ROP certified observer onboard.

29. Suggested action to establish notification requirements for monitoring observer coverage on carriers intending to be involved in high seas transshipment activities:

- Agree that ROP providers which place observers on fish carrier vessels that tranship on the high seas send the completed data forms, workbooks, reports and journals of the observer to the Commission Secretariat within 120 days of the disembarkation of the observer from the carrier;
- Agree that paragraph 12.9 in TCC10-2014-RP02 (page 8) on transshipment notification rules (a) to (d) be forwarded to the IWG-ROP for further discussion and direction.

Annual list of changes required to observer training programmes (TCC8, para 33) and observer handbook of CMMs (TCC9 para 206) (8.2d)

- (TCC10-2014-RP02) paragraph 9.1 (page 5) provides a list of additional data fields and/or a change in the status of observer data field input to be added to WCPFC “Observer Minimum Standard data fields collected by observers”.
- In 2014, the Secretariat compiled a booklet of all the current Commission Conservation and Management Measures and Resolutions that are in force in 2014. The booklet highlights some of the issues that will assist observers in understanding the CMMs and the importance of the data they are collecting. The booklet has been compiled for observers, however will be useful for anyone wishing to have an anthology of the CMM’s. It is available on the WCPFC Website under MSC - ROP section. (TCC10-2014-RP02) section 22 (page 12)).
- Quotes for costs of printing the CMM Handbook range from USD4950 - USD36,000. Freight costs are expected to add to the overall cost, and may be approximately USD 6000 per annum.

33. Suggested action related to WCPFC information to support observer training

- Recommend whether the Observer CMM booklet, which will be required to be updated on a yearly basis, should be printed and distributed, or just remains available on the WCPFC website for download.

Mechanism for observer data to be provided to the Master/Vessel Operator/Captain - (TCC workplan 2013-2015) (8.2e)

- The CMM for the Regional Observer programme CMM 2007-01 annex B para 1 (c) says that “Timely notification from the observer provider on completion of the observer’s trip of any comments regarding the vessel operations. The captain shall have the opportunity to review and comment on the observer’s report, and shall have the right to include additional

information deemed relevant or a personal statement.” There remain ongoing discussions within TCC on how to operationalize this paragraph.

35. (TCC10-2014-RP02 18.1-18.4) An “Observer Trip Monitoring Summary” is part of the minimum data standards of the Commission; the Pacific Island observer programmes use work books that contain a general form “GEN -3” that is used as a “Trip Monitoring Summary”. The form is not a written report but is an indicator of activities allegedly carried out by vessels and witnessed by the observer. The observer indicates by circling ‘YES or NO’ to the questions on the form. A response of ‘YES’ is an indicator only, and does not indicate that there has been any infringement by a vessel. The observers will include in their written report the reasons “Yes” was circled. There remains some outstanding matters related to this topic, and specifically related to the amount of detail to be included in these reports. The timing and procedure for submitting and CCMs receiving these reports are also outstanding matters.
36. (TCC10-2014-10) This year available 2013 ROP information was reviewed in draft CMR reviews (CMM 2007-01 paragraph 14 (vii); CMM 2009-02 paragraph 03-07, CMM 2012-01 paragraph 10 and 11). Some of the ROP related information has led to potential issues being raised within draft CMR which have been described as “alleged incidents of possible non-compliance”. Further work may be needed by the Secretariat in collaboration with SPC-OPF in their capacity as the WCPFC database service provider for the ROP, to further establish an alleged incident reporting mechanism.

37. Suggested action on a process to progress further consideration of the Mechanism for observer data to be provided to the Master/Vessel Operator/Captain

- a. TCC agreed to recommend that procedures for CMM 2007-01 Annex B para 1 (c) as outlined in Para 18.3 and para 18.4 of TCC10-2014-RP02 be forwarded to IWG-ROP for further discussion and direction.

Funding or IT capacity in place to maintain observer data provision (TCC workplan 2013-2015) (8.2f)

38. (WCPFC-TCC10-2014-20) The cost to the Commission of ROP data entry is just over USD 800,000 in 2014. The 2014 figures have increase since 2013, mainly because of the end of supplementary funding provided as a voluntary contribution directly to SPC-OPF from New Zealand and New Caledonia.
39. In 2015/16 the indicative cost of the Commission ROP data management is expected to be the full costs of ROP data management (USD923,904).

High Seas Transshipment Monitoring (8.3)

MCS implications of high seas transshipment (TCC9 para 268) (8.3a)

40. (TCC10-2014-RP03) In 2013 there were 596 high seas transshipment reported to the WCPFC Secretariat in accordance with CMM 2009-06; 19 receiving vessels and 231 offloading vessels from 10 CCMs were involved in these reported transshipments during 2013. Advance notifications and post-transshipment declaration reporting by CCMs of high seas transshipment events has improved but gaps remain in WCPFC holdings of reported transshipment events. From 1 Jan - 31 August 2014, 327 high seas transshipment activities were reported involving 19 receiving vessels and 226 offloading vessels from 9 CCMs.
41. Gaps remain in the determinations of impracticability in accordance with paragraph 34 of CMM 2009-06 and which is information that is now associated with the Record of Fishing Vessels. In early June 2014, *Conservation and Management Measure for Standards, Specifications and Procedures for the Record of Fishing Vessels* (CMM 2013-03) came into

effect. CCMs should note that there is now a mechanism for CCMs to include as updates to their vessels details contained in the Record of Fishing Vessels, information to confirm that “YES” a CCM has made a positive determination that its vessel is “authorized to transship on the high seas”, or “NO” vessel is not authorized to transship on the high seas. Note a recommendation in WCPFC-TCC10-2014-RP05 *Annual Report for the WCPFC RFV* requests that TCC10 provide clarification to the Secretariat on whether advice from CCMs of positive determinations that its vessels are “authorized to transship on the high seas” can be made available as part of the publicly searchable version of the RFV on the public side of the website.

42. In house developments during 2014:

- Improvements in capability to monitor and review transshipment reporting by CCMs, with in-house IMS analytical capability; and
- Preliminary work, with assistance from NOAA-OLE (Honolulu Office), to include IT Tools for analyzing WCPFC VMS data to identify possible transshipment events in the high seas.

43. Further development work with the WCPFC IMS related to improved high seas transshipment monitoring and verification is planned in 2014/15:

- This is expected to include increased WCPFC VMS analysis, through the further integration and refinement of current IT tools;
- Providing CCMs with more routine information on reporting gaps; and
- Consideration of the possible application of electronic reporting solutions which could be used by CCMs and ROP observers for reporting related to high seas transshipments.

44. Of relevance to the high seas transshipment monitoring, the ROP annual report (TCC10-2014-RP02) includes on page 8, some recommendations on transshipment notification reporting mechanisms which are proposed for discussion under TCC10 Agenda 8.2 (c). (see paragraph 29 of this report)

High Seas Boarding and Inspection (HSBI) (8.4)

Review implementation and effectiveness (TCC workplan 2013-2015) (8.4a)

45. (WCPFC-TCC9-2013-RP04) In 2013, the Secretariat received 83 reports from 7 Members conducting HSBI activities. Three vessels were observed to have a paragraph 32 notifications of *alleged serious violations* (as defined in CMM 2006-08 paragraph 37). In 2014, the Secretariat received 37 reports from 4 Members undertaking HSBI activities.
46. (TCC10-2014-10) This year the full draft CMR includes High Seas Boarding and Inspection Scheme (CMM 2006-08 paragraphs 30, 32, 33 and 36, 40 and 41), Convention Article 25(2) and Convention Article 23(5) reporting. We would appreciate views from the TCC on the reporting format that was used in 2014 draft CMR for reviewing “alleged incidents of possible non-compliance” within draft CMRs, and whether there are any recommendations for improvement.

Record of Fishing Vessels (RFV) (8.5)

47. (TCC10-2014-RP05) As at 5 September 2014, 28 CCMs (including five CNMs) have submitted 6049 records of their respective fishing vessels to the Executive Director. The main issue to emerge about the Record of Fishing Vessels (RFV) that requires TCC10’s consideration is the implementation of the RFV-SSPs.

48. Commencing in early June 2014, there were significant changes for the RFV as a result of the implementation of CMM 2013-03 *Standards, Specifications and Procedures for the Western and Central Pacific Fisheries Commission Record of Fishing Vessels*). The changes took effect in early June and included two main changes:
- I. Delivery on the WCPFC website, a RFV presentation that is “fully and readily searchable by public users” and “includes electronic photographs of the vessels”: <http://www.wcpfc.int/record-fishing-vessel-database>
 - II. Limiting CCMs to use one of two modes for submitting updates to their vessel record data on the RFV:
 - a. Electronic transmission: Submittal via email or other electronic means of electronic data files that meet the electronic formatting specifications of Attachment 3 of CMM 2013-03; or
 - b. Manual transmission: Direct RFV data entry via the web portal maintained by the WCPFC Secretariat for this purpose (Attachment 4 of CMM 2013-03).
49. RFV SSPs implementation was a relatively big job, but it was successfully delivered by contractor Taz-E and with the generous assistance of the IT Manager from CCAMLR; the RFV website publishing was developed by website contractor Eighty Options. The WCPFC does not have a dedicated budget line for the Record of Fishing Vessels; instead maintenance and ongoing costs come from the IMS-related budget lines. In 2014, the IT development costs of RFV-SSPs implementation were funded through from the 2014 Information Management System budget line item (total approved budget was USD100,000) and the website publishing came from AR Part 2/CMS online hosting and publishing line (total approved budget was USD 18,000).
50. From 2 June to 5 September 2014, 22 CCMs have updated (added/modified/deleted) 2044 vessels details in the RFV. Approximately 29% of these vessels were updated by CCMs submitting updates using the option in CMM 2013-03 paragraph 3(a) which is transmission of Excel files to the Secretariat. The rest of the vessels (71%) have been updated by CCMs using the direct data entry mode (paragraph 3(b)). The Secretariat, in close collaboration with CCMs, has to date been able to meet the timeframes specified in paragraphs 11 and 12 of CMM 2013-03.
51. The direct data entry mode continues to work well for many CCMs and has to date been the most frequently used of the two options for submitting updates. This seems to be the preferred option, especially when there are only a small number of vessels whose RFV details need updating, and if there is some urgency to publish updates to the WCPFC RFV. To date, the Secretariat has received and successfully uploaded Excel files from 5 CCMs (Australia, Korea, Panama, Chinese Taipei, and United States). The Secretariat has worked with at least two more CCMs to refine their MS Excel spreadsheet submissions but these CCMs have chosen to instead use the online web portal for their RFV updates at this stage.
52. The Secretariat has and will continue to provide assistance to any CCMs wishing to submit RFV updates using the MS Excel file option, and can on request provide CCMs with a template that includes all fields and in the order shown in Attachment 1 of CMM 2013-03. The Secretariat on request is able to provide CCMs with a list of VIDs for their current and previous delisted RFV vessels, which is a minimum required data field and is needed for MS Excel RFV updates.
53. The main issues to emerge from report on implementation of the RFV-SSPs which require TCC’s consideration
- The Secretariat continues to receive queries, including since the RFV SSPs was implemented about the meaning of expired or blank authorization period for a vessel in the RFV. Since the implementation of the RFV SSPs, CMM 2013-03 does

provides some guidance to CCMs about how the “authorisation start date” and “authorization end date” fields are expected to be completed in the RFV, and says “Leave blank if the vessel is not authorized by its flag State to be used for fishing for HMS beyond areas of national jurisdiction.”

- Whether CCMs had intended, once the RFV SSPs was implemented, for specific fields in the RFV to be non-public domain information? And if so whether the TCC8 directions to treat Charter Notifications and high seas transshipment authorization information as non-public domain information, should still apply;
- The requirements for a unique vessel identifier has been incorporated by the inclusion of paragraph 6(s) and footnote 4 into the current Conservation and Management Measure for the Record of Fishing Vessels (CMM 2013-10), and maybe the is no longer a need for CMM 2013-04 *Unique Vessel Identifier*; and
- The importance of the Record of Fishing Vessels VID is the internal WCPFC Secretariat system identifier for WCPFC RFV records. The VID provides a necessary check, particularly when updates are being made through the mode of MS Excel file, so as to ensure that the correct vessel records are being updated. The Secretariat cannot stress how important it is that flag CCMs, duly check to make sure that the VID numbers that they provide in MS Excel files are the correct. The Secretariat has received MS Excel files from CCMs which have contained incorrect VID numbers, and we have been fortunate that the data included in the RFV field was sufficiently different that the file checks rejected the update and records were not mistakenly updated.

54. Suggested actions to improve the administration of the Record of Fishing Vessels

- a. CCMs with vessels that are included on the RFV which are “not authorized by its flag State to be used for fishing for HMS beyond areas of national jurisdiction”, are invited to consider completing the non-minimum required data related to their vessels authorization, as per the instructions in the RFV SSPs.
- b. Provide direction to the Secretariat about whether flag CCM advice submitted as RFV updates related to i) charter notifications and/or ii) high seas transshipment authorisations, should be viewable on the public side of the WCPFC website with other RFV published information?
- c. Agree to recommend to the Commission to revoke CMM 2013-04, noting that the operative parts of this document have been duly incorporated into CMM 2013-10 as paragraph 6(s) and footnote 4.

Secretariat recommended improvements or modifications to RFV SSPs (para 14 - 15 of CMM 2013-03) (8.5a)

55. (TCC10-2014-RP05, pg 8-12, Annex 6) CMM 2013-03 paragraphs 14 and 15 tasks the Secretariat with periodically making recommendations for improvements or modifications to the RFV SSPs. Draft proposed amendments to CMM 2013-03 are provided for TCC10’s consideration in Annex 6 to TCC10-RP05. The main changes proposed to CMM 2013-03 are:

- Editorial corrections, for example to replace all references to CMM 2009-01 to the updated CMM 2013-10, correct VID field to be a numeral, corrections to the web portal address;

- Inclusion of IMO or LR Number field in the RFV SSPs, to reflect CMM 2013-10 field, and allow for CCMs to submit available IMO numbers as part of their MS Excel updates;
- Other proposed edits which have taken into some of the actual challenges that CCMs and the Secretariat have faced over the past couple of months, particularly with implementing the MS Excel file option for submitting RFV updates. For example needing exact phrase matches for the longer names of fishing method, fishing gear type and Port of Registry: use of FAO codes for fishing gear type and fishing method and use of available UN/LOCODE codes for ports of registry are proposed; and
- Suggestions based on a concern that the Secretariat has to ensure the maintain the quality of the RFV information and other individual vessel records and reporting, noting that the RFV is a central feature of the integrated IMS: for example the proposed two new data action codes for REFLAGGING and RELISTING to provide greater clarity about the previous circumstances of a vessel to which the RFV updates.

56. Suggested actions to strengthen and improve the RFV SSPs, with a view to improving the quality and minimize chances of errors being made when RFV updates are processed

Agree to recommend to the Commission to:

- a. Approve the amendments to CMM 2013-03 as shown in **Annex 6** to TCC10-2014-RP05, noting that Attachment 8 is work to be completed by the Secretariat before WCPFC11; and
- b. Adopt the use of UN/LOCODE for “Port of Registry” field where one is available, and task Secretariat to work with interested CCMs, SPC, PNAO and FFA towards preparing at least 30 days in advance of WCPFC11 a proposed list for the revised RFV SSPs of codes for the other ports within in the Convention Area that currently do not have a UN/LOCODE.

Eastern High Seas Pocket Special Management Area (EHSP-SMA) (8.6)

57. (TCC10-2014-RP06) In late 2013, the High Seas Pocket Special Monitoring Area IMS-module for recording and analyzing the EHSP reporting was finalized and implemented by the Secretariat. Entry and exit reports are submitted to the Secretariat via email and are stored in WCPFC’s Information Management System (IMS). The Entry/Exit reports received are also transmitted to the three coastal CCMs surrounding the EHSP, and the three countries have requested and receive 100nm high seas VMS data for the EHSP-SMA, in accordance with the Data Rules and Procedures.
58. In 2013, two Members conducted high seas boarding and inspections (HSBI) in the EHSP and 11 boardings were undertaken, 6 of which detected violations. These violations included non-reporting of entry into the EHSP, VMS, CMM 2009-01 and shark related (CMM 2010-07). There is no information available to the Secretariat confirming any transshipment activities in the EHSP-SMA during 2013.
59. When reviewing the measure as per para 8 of CMM 2010-02, CCMs may wish to consider ways to improve compliance with the reporting obligations. The Compliance Monitoring Scheme has identified that non-compliance with the reporting requirements under the measure was an issue in previous years. The Secretariat has also noted that: Entry and Exit reports submitted are not in the format specified in CMM 2010-02 paragraph 2; Entry and

Exit reports are sometimes incomplete; Entry and Exit reports submitted are sometimes unrelated to the EHSP; and Date/Time, Lat/Long and estimated catch are recorded and reported in varying units/formats. There could be a number of different ways to improve the quality of the reporting in the EHSP-SMA.

60. Suggested actions to improve the quality of the reporting in the EHSP-SMA

- a. The Commission agree to the development of clearer and consistent specifications to address the issues relating to the reporting of data in this and similar CMMs; and
- b. The Secretariat is tasked to work with interested CCMs on some joint-initiatives that CCMs might use on a voluntary basis, with a view to streamlining the WCPFC data entry processes for EHSP-SMA reporting.

Proposal to amend CMM 2010-02 (8.6a)

61. At the time of writing this proposal was not available.

Data Provision and Gaps (9)

Impact of gaps in CCM data submission on Commissions compliance functions (final CMR2012) (9.1)

62. (TCC10-2014-IP04) provides the updated data gaps paper from SC10. The information therein was the basis of draft CMR reviews of CCMs implementation for 2013 activities, of the five paragraphs in the *Scientific Data to be Provided to the Commission* decision.

Purse Seine Catch Composition Data Improvement project progress report (TCC9 para 403) (9.2)

63. WCPFC10 agreed to a USD10,000 budget for a consultancy to support improvement of purse seine catch composition data. In part due to competing priorities on MCS/Compliance staff time, the Secretariat has not been able to complete this task prior to TCC10. The Secretariat would appreciate being able to further discuss in the margins of TCC10 with interested Members, including the FFA, more about the intended scope of the proposed consultancy and its objectives.

Intersessional activities (10)

E-monitoring and E-reporting Initiatives (10.1)

64. Papers relevant to this agenda item:

- (TCC10-2014-15) Chairs Report from The WCPFC Electronic Monitoring and Electronic Reporting Workshop (EmandErW), which was held in Honiara, Solomon Islands, from 31 March – 1 April 2014.
- (TCC10-2014-16) Progressing the development of a WCPFC draft Electronic Reporting standard, including for ROP data.
- (TCC10-2014-DP05) Preliminary Report on the Solomon Islands Longline E-monitoring project.
- (TCC10-2014-16) provides information on the types of reporting formats used internationally for standard fisheries data elements. The paper supports the recommendation of the EmandEr Workshop, specifically the outcome that WCPFC establish a working group to develop standards and specifications for the electronic submission of WCPFC data.

- (TCC10-2014-OP02 & OP03) MCS Emerging Technologies Workshop Summary (WWF) and accompanying paper on MCS Emerging Technologies initial cost-benefit analysis study - KAITIAKI HE O TE MOANA (WWF).

65. The main issues emerging from the consideration of ways forward with Electronic-monitoring and Electronic reporting in 2014 are:

- The adoption of ER and EM standards by the Commission will support and accommodate those CCMs that have commenced implementation of a range of EM and ER technologies in their fisheries, and will ensure that the Commissions databases and IMS systems are ready to receive electronic data.
- The Commission can take a decision to develop data standards for ER and EM separately from a decision to require certain data/information or CMM reporting, which are currently accepted on forms, to be submitted electronically.
- It is suggested that the starting point for the development of a draft ER specification document would be the current CMMs and WCPFC decisions on minimum data fields, current data standards and forms that are currently used by CCMs for their data collection programmes their data eg WCPFC ROP Minimum Data Standards and Instructions, and relevant Standards, Specifications and Procedures documents.
- It is also suggested that draft ER specifications should take into account approaches at the international level on fisheries data standards and where possible, maintains the WCPFC definition or suggests adoption of an international standard.

66. Suggested actions to progress draft ER specifications ensure that the Commissions databases and IMS systems are ready to receive electronic data

- a. establish a combined EM and ER Working Group, with a priority task to develop draft ER SSPs, consistent with discussions at the EmandEr Workshop;
- b. to assist the work of the combined EM and ER Working Group, task the Secretariat to commence work as soon as practicable, to develop a draft set of ER SSPs to be reviewed by the EM and ER Working Group once it is established;
- c. in developing the draft ER SSPs, task the Secretariat to consult interested CCMs, and subregional agencies including the Scientific Services and Data Services Provider (SPC-OFP), the FFA and PNAO; and
- d. task the combined EM and ER Working Group and the Secretariat to further consider the development of a WCPFC data dictionary for all WCPFC data elements.

Recommendations from SC and NC (10.2)

67. (TCC10-2014-IP03) This paper provides a list of selected SC10 and NC10 recommendations, where there were outcomes that might be relevant to the TCC10 discussions. For reference, the paper also lists the relevant WCPFC10 and TCC9 outcomes, against the TCC10 agenda.

CDS-IWG (10.3)

68. (TCC10-2014-17) The CDS-IWG workshop will take place on Wednesday 24th September, in Pohnpei, Federated States of Micronesia, and a report will be provided to TCC10 by CDS-IWG Chair, Alois Kinol.

Port Coordinators (10.4)

69. (TCC10-2014-18) At WCPFC9 the Executive Director was asked to investigate the potential use of Port based Commission Coordinators for the main transshipment and unloading ports

in the WCPFC Convention area consistent with their application and use in IATTC. A paper was prepared and discussed at TCC9 as WCPFC-TCC9- 2013/16, which included some background on the IATTC Approach to Port Coordinators from the Executive Secretary of IATTC, Dr Compean. In May 2014, the Secretariat and NORMA developed a revised paper which was circulated to CCMs as WCPFC Circular 2014/36. The revised paper attempts to put the proposal more in the context of what might work in the WCPFC where the structure of the observer program is somewhat different to that in the IATTC.

70. The focus of the responsibilities of Port Coordinators (field officers) in the WCPFC will be different to the IATTC where IATTC has its own Observer program, and the focus is on port sampling and catch recording. SPC has noted a number of times that this is impractical where fish are being shipped and mixing and/or sorting of fish have taken place on board prior to transshipping. However, as most of this transshipping activity in the WCPFC occurs in the port of developing members and provides a real benefit to the Commission as a whole, there would be very real benefit to the WCPFC to work collaboratively with members to continue to improve observer reporting on transshipment and catches, and port monitoring. A list of possible responsibilities is provided on page 3 of TCC10-2014-18.
71. A rough estimate of the cost is USD175,000 (5 Port coordinators engaged on local salaries but with observer experience to the debriefer level, salary of USD15,000 each for 2 years + one off cost of USD5000 for overhead and equipment costs)

72. Suggested actions for the Commission to provide support to monitoring the transshipment which happens in the WCPO, mostly in the ports of developing member countries:

- a. The Commission agrees to establish a Port Coordinator program for two years which would:
- i. fund the establishment of a position within the domestic fisheries agencies in the main shipping locations within small island developing States to improve the monitoring of transshipment, the recording of transshipped catch and the return of log books and observer reports;
 - ii. be implemented on a trial basis for two (2) years in the five ports of Pohnpei, (FSM), Majuro (RMI); Tarawa or Christmas Island (Kiribati); Rabual (PNG) and Honiara in the Solomon Islands (SI);
- b. If after two years the evaluation proves that the program has been successful the Commission can then take an informed decision to extend the program to other ports in the WCPO.

Review of Existing CMMs (11)

South Pacific albacore (CMM 2010-05) (11.1)

73. (TCC10-2014-IP09) is the paper on south Pacific albacore prepared by SPC with input from WCPFC Secretariat. This paper responds to the TCC9 recommendation (para 334) and provides information on trends in the south Pacific albacore longline and troll fisheries.
74. Other relevant TCC10 papers:
- (TCC10-2014-IP06) Secretariat report on available information, on implementation of and compliance with CMMs (*late paper*);

(TCC10-2014-dCMR01 & 02) Full draft CMR covering 2013 activities – provides information on the review of implementation of this CMM.

South Pacific Swordfish (CMM 2009-03) (11.2)

75. (TCC10-2014-IP10) is the SC10 general overview of fisheries paper, which this year contains some additional information on trends in the SW swordfish fisheries.
76. Other relevant TCC10 papers:
- (TCC10-2014-IP06) Secretariat report on available information, on implementation of and compliance with CMMs (*late paper*);
 - (TCC10-2014-dCMR01 & 02) Full draft CMR covering 2013 activities – provides information on the review of implementation of this CMM.

Bigeye, yellowfin and skipjack (CMM 2013-01, CMM 2009-02) (11.3)

Additional FAD Management Options (CMM 2013-01 38) (11.3a)

77. (TCC10-2014-19) At WCPFC10 in adopting CMM 2013-01 the Secretariat was tasked with preparing a report for consideration by the SC, TCC and Commission in 2014. Paragraph 38 of CMM 2013-01 says: Paragraph 38 of CMM 2013-01 says:

38. The Commission Secretariat will prepare a report on additional FAD management options for consideration by the Scientific Committee, the Technical & Compliance Committee and the Commission in 2014, including:

- a. Marking and identification of FADs;*
- b. Electronic monitoring of FADs;*
- c. Registration and reporting of position information from FAD-associated buoys; and*
- d. Limits to the number of FADs deployed or number of FAD sets made.*

As a response to this tasking, on 23 July 2014 the Secretariat sent out WCPFC Circular 2014/60 (TCC10-2014-19).

78. The paper reviews the previous consideration of the Secretariat response to the same request made in CMM 2008-01. A number of subsequent studies and related draft proposals are also attached to paper TCC10-2014-19.
79. The main issues emerging from the paper :
- Since 2009, the number of purse seine vessels in the commercial fishery has increased to some 300 vessels in the fishery in 2014.
 - The known FAD numbers are around 30,000 and roughly the same (PNA) but what is unknown is the level of FAD use in Philippines and Indonesia.
 - The FAD technology has changed and boats can now fish on FADs with some certainty of catching fish through the increased usage of sonar buoys. This technology allows boats to “cherry pick” the FAD on which they fish and actually changes the game in a major way.
 - Vessels are using more FADs as fish schools become scarcer.
 - This technology will continue to improve as we move forward.
 - The FAD closures are set to extend from 4-6 months so therefore tracking and monitoring will become very important to ensure vessels stay within their limits.

80. Suggested actions to progress the development of additional FAD management options, including tracking and monitoring arrangements

- Appoint a small working group of members, the PNA and industry and the SPC under a proactive chair preferably from industry to review the papers included with this report including the FFA and US papers submitted to Commission meetings, the PNA papers and approaches and to recommend a way forward for the Commission on three (3) main issues.
 - i. FAD marking, and identification, and use of electronic signatures
 - ii. FAD monitoring, tracking and control to prevent FADs becoming marine debris; and
 - iii. Appropriate limits to FAD deployment;
- Until other decision are made in relation to FADs to limits FAD sets to the table at Attachment 1 of CMM 2013-01;
- Limit FADs and buoys per vessel to no more than 100 until the work of the small working group is completed; and
- Task the Secretariat with arranging a consultancy to analyse the commercial implications of FAD usage in order to inform a sensible debate on FAD limits and controls.

Other aspects of CMM 2013-01 (11.3b)

81. Relevant TCC10 papers:

- (TCC10-2014-IP07) Summary of CMM 2012-01/CMM 2013-01 reporting;
- (TCC10-2014-IP08) Catch and effort tables on CMM 2008-01/CMM 2012-01 – prepared by SPC-OPF;
- (TCC10-2014-IP10) Overview of WCPFC fisheries (SC10-2014-GN-WP01);
- (TCC10-2014-IP06) Secretariat report on available information, on implementation of and compliance with CMMs (*late paper*);
- (TCC10-2014-dCMR01 & 02) Full draft CMR covering 2013 activities – provides information on the review of implementation of this CMM.

Sharks (CMM 2010-07); Seabirds (CMM 2012-07); Sea Turtles (CMM 2008-03); (11.4 – 11.6)

82. Relevant TCC10 papers:

- (TCC10-2014-IP06) Secretariat report on available information, on implementation of and compliance with CMMs (*late paper*);
- (TCC10-2014-dCMR01 & 02) Full draft CMR covering 2013 activities – provides information on the review of implementation of this CMM.

New CMM Proposals (12)

83. At the time of preparing this paper, two proposals for new CMMs had been received and circulated for TCC10:

Proposal for Conservation and Management Measure on Port State Measures – FFA Members (TCC10-DP01) (12.1)

84. The Secretariat has taken note that there appear to be five tasks for the Secretariat which based on the current draft would need to be implemented before the 60 day deadline post-WCPFC11:

- receiving copies of inspection reporting, and related correspondence as per the draft proposed CMM (DP01, paragraph 13 and 19);
- maintaining the *WCPFC List of Designated Ports for Fisheries Inspection*, based on updates from CCMs (DP01, paragraph 6), and presumably publishing this list online on the public side of the website (?);
- developing a new IMS-module for maintaining records related to List of Vessel of Interest (VOI), and publishing the updated list on the secure side of the WCPFC online systems (DP01, paragraph 14, 16 and 17);
- reporting requirements for advising flag CCMs of the VOI listing of any of its vessels (DP01, paragraph 15); and
- maintaining the *Register of Port contacts*, based on updates from CCMs (DP01, paragraph 22).

Proposal for Conservation and Management Measure on establishing a Harvest Strategy – Australia (TCC10-DP02 and DP03) (12.2)

85. The agenda for the Management Objectives Workshop (28th November 2014 in Apia) is currently under development and this CMM could potentially be one of the topics for discussion at MOW3.

Other matters requiring TCC advice (13)

Management arrangements for IATTC Overlap (TCC Workplan 2013-2015) (13.1)

86. The Secretariat has no updates to provide on the management arrangements IATTC overlap area. For a summary of notifications received are provided see *WCPFC-TCC10-2014 –IP07* (paragraph 12).

87. (TCC10-2014-RP02, 14.1) There are a total 21 observers from FSM, Nauru, Kiribati and RMI with cross endorsement certification; these certified observers are able to carry out work in both convention areas on the same trip. Further training of observers for cross endorsement was intended in late 2014 (USD25,000 allocation for 2014), however, due to the unavailability of the IATTC trainer this will be delayed until early 2015.

Development and trials of metrics for measuring fishing effort and capacity (TCC Workplan 2013-2015) (13.2)

88. The Secretariat has no updates on metrics for measuring fishing effort and capacity. For a summary of notifications received under paragraph 50 of CMM 2013-01 see *WCPFC-TCC10-2014 –IP07* (Table 7).

Review of purse seine catch discard monitoring arrangements (TCC Workplan 2013-2015) (13.3)

89. A short paper summarizing the purse seine catch discard reporting that WCPFC has received in accordance with CMM 2009-02 paragraph 12 is provided as *WCPFC-TCC10-IP11*. This paper is provided with a view to assisting TCC10 with its review of purse seine catch discard monitoring arrangements.

Administrative matters (14)

Proposed TCC Work Plan and Budget for 2015-2017 (14.1)

90. (TCC10-2014-20) provides the WCPFC9 adopted TCC Workplan 2013 – 2015 (WCPFC9 summary report paragraph 349). The TCC10 agenda was prepared taking into account the agreed priority projects for 2014. Also provided for information is a copy of the final agreed budget for 2014, with indicative budgets for 2015 and 2016 – many of the figures from Part 2 of the budget have been referred to throughout this paper.

Data rules and security audit (14.2)

91. (TCC10-2014-RP07) In 2013/14 the Secretariat has maintained its system of controls over approvals for access to data and information from the Commission. In 2013, the Secretariat received and processed sixty seven (67) requests from Members for specific WCPFC data, some of which related to multiple types of WCPFC non-public domain data. Twenty five (25) requests have been received from Members during 2014. These protocols all seem to have worked well with no known breaches occurring.
92. CCMs may be aware that the individual CCM portals on the WCPFC website, which were used for the Secretariat to provide individual draft CMR and supporting documentation to individual CCMs, also includes WCPFC Official Contacts list which is updatable by each CCM. The Secretariat would note that the individual CCM portals does seem to provide the Secretariat and CCMs with some possibilities, which could allow CCMs to be able to more easily maintain their other WCPFC contact details such as: details of MCS entities and Management Entities for the purpose of the WCPFC Data RaPs; the details of flag States authorized authorities for the purpose of the Charter Notification Scheme (CMM 2012-05) and the High Seas Boarding and Inspection Scheme (CMM 2006-08); and the details of Port State Authority contacts (should CMM on Port State Measures be agreed). The Secretariat intends to continue to explore these options.
93. (TCC10-2014-RP08) provides the Report of the independent review of the Secretariat's VMS data, and the integrity of the IMS and RFV, which was conducted by Deloitte & Touche LLP Guam. The agreed-upon procedures scrutinized 'integrity of data', 'access controls', 'data protocols used for both incoming and outgoing data', 'configuration and redundancy of the systems', and 'confidentiality of data'. Like previous reviews, this annual review was guided by the WCPFC Information Security Policy that was adopted at WCPFC3. The review confirms that many of the recommendations from the 2013 Review Report have been addressed by the Secretariat, for example there were a number of website enhancements which have strengthened the security of communications and login arrangements between the website and the intranet. The virtualization of the WCPFC servers, and the inclusion of a third server in 2014, has also improved redundancy of IT operations to the Secretariat and to CCMs information in online systems. The Secretariat, under the leadership of the internal IT Security Committee, is currently developing a work plan to review, prioritize and scope the other remaining recommendations from the review. Included within this planning by the internal IT Security Committee, is a review of the current Disaster Recovery Procedures and options for maintaining online services for RFV publishing, and Annual Report Part 2/CMR reporting will be among the aspects that will be considered.

Report on the Secretariat IMS and website development, and online reporting systems (2013-2015) (14.3)

94. The WCPFC Information Management System (IMS) is hosted internally within the Secretariat, using Microsoft SharePoint technology and an additional integrated SQL database. A SharePoint Intranet/Extranet Portal <http://intra.wcpfc.int> are provided to both the Secretariat staff and the authorized CCM users. The Commission website <http://www.wcpfc.int> is hosted externally from the Secretariat office, and was initially set up

to document and gazette WCPFC meeting papers, summary records and copies of WCPFC decisions including CMMs.

95. In 2012, the Commission received a paper by the Secretariat: *Proposed enhancements to the Information Management System and WCPFC Website 2013-2015 (WCPFC9-2012-FAC6-16)*, which responded to the TCC8 recommendation that subject to available funds, the Secretariat continue work to develop its internal systems including the further development of an enhanced and integrated WCPFC Information Management System to improve the integration of WCPFC MCS information. Other priorities at the time included delivering to Members an online interface for submitting their annual reports to the Commission on compliance and implementation of measures (Annual Report Part 2), as well as developing an internal online system to assist the Secretariat with generating draft Compliance Monitoring Reports for each CCM. The WCPFC9 approved budget 2013 (USD100,000), and indicative budgets 2014 (USD100,000) did reflect the budgetary recommendations of the Secretariat's IMS/website proposal; subsequent budgets and indicative budgets have maintained these amounts. A modest annual amount for online publishing of through the website, including of Annual Report Part 2, has also been maintained in subsequent budgets (USD18,000).
96. These commitments by the Commission to IMS developments and associated IT infrastructure have taken us forward in terms of efficiencies and effectiveness. Prior to 2012, an incremental approach had been used to develop information management system and its support architecture. Following approval by WCPFC9, the Secretariat commenced a phased investment to increase the integration of MCS information in the WCPFC IMS and required website enhancements. Through these initiatives, a range of online reporting systems for CCMs and for the Secretariat have already been delivered (including online reporting systems for Annual Report Part 2, draft Compliance Monitoring Reports, MTU audit reporting, and Record of Fishing Vessels updates), the IT network at WCPFC HQ is now virtualised and IMS-based databases have been implemented to replace the ad-hoc spreadsheet desktop recordkeeping that had been used prior to 2012 for recording principal CMM reporting datasets.
97. The Secretariat expects that work to continue the integration of databases under a single data warehouse framework, and supported by the development of IT analysis tools, has and will enable the Secretariat to undertake MCS and compliance reviews that will better support the WCPFC Compliance Monitoring Scheme, and potentially better support WCPFC member MCS non-public domain data requests. All of the Required Reports which are tabled at TCC10, and the draft Compliance Monitoring Report and related-work, have benefitted and have been supported by the IMS developments to date.
98. An in-house workshop was held on 13 and 14 June 2014 at the WCPFC Secretariat headquarters in Pohnpei, FSM. The purpose of the workshop was to discuss approaches to integrating MCS data, including the application of GIS tools to support analysis of the data. Participants consisted of Secretariat staff and representatives from the National Oceanic Resource Marine Authority (NORMA) and FSM Maritime Police, National Oceanic and Atmospheric Administration - Office of Law Enforcement (NOAA-OLE), Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR), Pacific Islands Forum Fisheries Agency (FFA) and the Secretariat of the Pacific Community, Oceanic Fisheries Programme (SPC-OFP). The group discussed a range of topics relating to data integration including data management, data formats and standards, data quality control, data analysis.
99. In 2014, the Secretariat has received commitments for some voluntary contributions from two CCMs. These are expected to support four priority work areas which have been identified by the Secretariat for future IMS development within the Secretariat:

- a) support ways to improve the collection of accurate and timely data, including through electronic reporting (ER) and electronic monitoring (EM);
- b) continuing to expand the analytical capability and business intelligence of the WCPFC IMS, including adding a GIS/map for displaying and integrating various WCPFC data;
- c) improving the access and capability of the Secretariat to review ROP observer data, and ensure that the Secretariat's internal MCS operating procedures and IMS systems adequately cater for record-keeping, handling of evidence and notices to CCMs of possible violations;
- d) review procedures and propose tools, including through the website, so that the Secretariat is better equipped to provide timely access to MCS-relevant information in support of member MCS activities and to share MCS data with CCMs, in accordance with the WCPFC data rules and procedure.

These priority work areas align closely with many of the ideas and proposals that the Secretariat has mentioned related to IMS developments and website enhancements in TCC10 papers. The Secretariat does intend to continue to take a holistic approach to the IMS and website management, and is currently finalizing an overall project plan for the Information Management System and website proposed developments.

Staffing

- 100. All eleven MCS/Compliance staff (4 professional level and 9 locally recruited staff) remain in place; and RFV officer Ms Jeannie Nanpei is currently on maternity leave and we wish her the very best and look forward to welcoming her back to the office in late 2014.
- 101. In addition to permanent staff during 2014 there are two consultants working with WCPFC, who will be involved in TCC10:
- 102. *Kerry Smith*, who we have been very fortunate to have join us in January, seconded from AFMA (Australia). Kerry was an instrumental part of the team that provided support to the preparation and successful delivery of the WCPFC Electronic Monitoring and Electronic Reporting Workshop early in 2014. She has assisted the Secretariat in a number of areas, including work to progress the development of draft e-reporting standards, with an initial focus on ROP data and transshipment reporting (TCC10-2014-12), input into the CMM handbook for ROP observers, and provided project planning and monitoring and evaluation support of some of projects that have been developed for some of the voluntary contributions we have received to support both MCS and Science areas of the WCPFC work programme.
- 103. *David C. Angyal*, as the new Legal Advisor to the Commission and the WCPFC Chair. Dave commenced his role in early September and we look forward to introducing him to many of you during TCC10.

Travel by WCPFC MCS/Compliance staff in 2013/2014:

- 104. A list of the travel by the senior Compliance/MCS staff in late 2013/2014 is provided below. The travel has included assistance and involvement in subregional activities directly related to the WCPFC work areas. Most travel is funded from the *staff travel* line items in Part 1 of the budget, but some travel was funded by external sources.

Honiara, Solomon Islands

- WWF/FFA Emerging Technologies Workshop (March 2014) - Compliance Manager, Assistant Compliance Manager, Consultant Kerry Smith;

- FFA MCS Working Group (March 2014) -Compliance Manager, Assistant Compliance Manager, Consultant Kerry Smith;
- FFA VMS tender panel (March 2014) – Compliance Manager, VMS Manager, Assistant Compliance Manager.

Noumea, New Caledonia

- FFA/SPC Regional Observer Coordinators Workshop and TUBS workshop (Feb 2014), FFA/SPC Data Consultative Committee (March 2014) – ROPC Coordinator, ROP Data Quality Officer

Nadi, Fiji

- PNA Observer Coordinators Workshop (August 2014) – ROP Data Quality Officer
- Suva - United Nations-Nippon Foundation of Japan Fellowship Programme Alumni (October 2014) – Assistant Compliance Manager

Pohnpei, Federated States of Micronesia – observer training (Nov 2013) – ROPC Coordinator, ROP Data Quality Officer

Cairns, Australia

- WCPFC10 and associated meetings – Compliance Manager, Assistant Compliance Manager, VMS Manager, ROP Coordinator, ROP Data Quality Officer.
- Consultations with CCAMLR IT Manager - Compliance Manager, IT Manager

Majuro, Republic of Marshall Islands

- Observer training July 2014 – ROP Data Quality Officer;
- SC10 (Aug 2014)- Compliance Manager

Manila, Philippines – ROP audit / ROP training (July 2014) – ROPC Coordinator

Chinese Taipei – ROP training (Oct 2014) – ROPC Coordinator

Cape Town, South Africa – ICCAT23 annual meeting, and Compliance Committee (Nov 2013), and informal consultations with outgoing COC Chair and ICCAT Secretariat Compliance Officers - Compliance Manager

Barcelona, Spain – ISSF workshop on purse seine Capacity Transfer (March 2014) - Compliance Manager