



TECHNICAL AND COMPLIANCE COMMITTEE

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EXECUTIVE DIRECTOR'S REPORT ON OPERATIONAL ISSUES WITH THE WCPFC MCS PROGRAMMES

WCPFC-TCC13-2017-07

22 September 2017

Paper prepared by the Secretariat

Purpose

1. This paper presents the Executive Director's Report providing an overview and a consolidation of the key findings and recommendations from the various components of the Commission's Monitoring, Compliance and Surveillance (MCS) programme to be considered at TCC13. The structure of the Report reflects the priorities and their order of significance as contained in the TCC Workplan 2016 – 2018 (TCC13 agenda number and referenced working papers are provided in brackets and in italics).¹
2. Information Paper TCC13-2017-IP03 provides a useful summary of updates on decisions and issues from TCC12, WCPFC13 and SC13 and where they will be considered in the TCC13 provisional agenda.

Priority Issues forwarded from the Commission

[(11.3b) (TCC13-2017-17)]

[(13.1) (TCC13-2017-18)]

3. WCPFC13 tasked TCC13 to consider specific priorities and the Secretariat has prepared papers to facilitate their consideration by TCC as follow:
 - i. A comprehensive approach to shark and ray conservation and management, presented in TCC13-2017-17; and
 - ii. Further consider recommendation to extend the Port Coordinators Programme, presented in TCC13-2017-18.

Suggested Action:

4. TCC13 is invited to consider the above two priority issues and advise WCPFC14 as appropriate.

¹ Agenda version 1 as at 29 June 2017

Monitor and review compliance with conservation and management measures adopted by the Commission (Compliance Monitoring Scheme).

[(5) - TCC13-2017-11a-d, IP01,IP04, IP07]

5. The draft Compliance Monitoring Report (CMR) to be prepared and issued in late July each year, is one of the key inputs to the Compliance Monitoring Scheme. Thirty-seven (37) CCMs and one collective group of Members received draft CMRs from the Secretariat on 3 August 2017 and in the said reports approximately 522 potential issues were highlighted. The full draft CMR, which incorporated replies from twenty-four (24) CCMs, and highlights 422 potential issues, was made available to CCMs on 12 September 2017. Approximately 1583 cases related to alleged infringements are presently notified in the online WCPFC Compliance Case file system for 2015 – 2017, and each individual case has information about the alleged infringement and the status of the investigation undertaken by the flag CCM and any findings (at the time of writing flag CCMs have advised that they consider investigation completed for approximately 630 cases). Two papers that overview the Secretariat support to the Compliance Monitoring Scheme, including the associated online annual reporting and online compliance case file systems are provided in TCC13-2017-11a and TCC13-2017 11c.
6. The Secretariat’s response to the draft CMR task, has included careful work planning and efforts to incrementally build and enhance WCPFC Information Management System (IMS) hosted databases for centralizing records of CMM reporting and development of integrated MCS analytical tools at the Secretariat. The Commission has provided budgetary resources that have been used to develop and enhance the WCPFC IMS hosted databases for CMM reporting at the Secretariat, to develop the WCPFC online reporting systems and more recently the online WCPFC Compliance Case File System.
7. Since 2012, the Commission has maintained an annual budget of \$100,000 for IMS developments and a modest provision of \$18,000 for online publishing through the website. The Secretariat acknowledges the ongoing support from IMS contractor Taz-E and website contractor Eighty Options to assist the Secretariat with the development and ongoing support provided to the Commissions integrated MCS/Compliance Information Management System and associated online IT tools to date.
8. The online Compliance Case File System is considered by the Secretariat to be a version 2.0 implementation. Feedback is welcomed from CCMs of requests for enhancements that could assist CCMs in their use and management of cases in the online WCPFC Compliance Case File system. The system has increased the Compliance Monitoring Scheme workload for the Secretariat and CCMs, but potentially provides an additional source of information that is relevant to TCCs priority task of reviewing implementation by CCMs of obligations. The efforts that many CCMs have made to submit annual reports early and to use the WCPFC online reporting and Compliance Case File System is appreciated. These efforts have assisted the Secretariat with meeting the deadline for issuing the draft CMR.
9. The Secretariat also acknowledges the contribution of SPC-OFP colleagues as a source of information for the draft CMRs. SPC-OFP continues to provide advice on the completeness of scientific data provision by CCMs, ROP data submission and available information on purse-seine and longline observer coverage, and catch and effort table summaries for tropical tuna CMMs (CMM 2015-01) and south Pacific albacore (CMM 2015-02). In 2016/17, SPC-OFP colleagues have also provided considerable assistance to the Secretariat so that ROP-data could be used as a source in the online Compliance Case File system. These contributions by SPC-OFP to the Compliance Monitoring Scheme and TCC priority work is funded in part through the Scientific Services (SPC) and ROP Data Management budget line items in the Commission budget.

Suggested Action:

10. TCC13 is invited to:

- i. Provide feedback on the online reporting system and the WCPFC Compliance Case File system, including requests for future enhancements; and
- ii. Provide direction to the Secretariat on how to consider and present information contained in the online WCPFC Compliance Case File system.

Independent audit or review of the Compliance Monitoring Scheme

[(5) - TCC13-2017-10]

11. In April 2017, Don MacKay (Chair), Andrew Wright and Dr Christopher Rogers were appointed to the Independent Panel to review the CMS. The objective of the Review is to assist CCMs to improve compliance with the Convention and CMMs and to this end the review will be forward looking and is expected to provide clear recommendations on how best to implement the CMS. The Panel held a meeting with support from the Secretariat in August, has conducted some phone/skype interviews and distributed a questionnaire to seek the views of CCMs and other stakeholders, and has also been working electronically. A paper that provides an update on the progress of the Independent Review of the Compliance Monitoring Scheme is provided in TCC13-2017-10. There was a 2017 budgetary allocation of \$124,590 for the CMS Review.
12. Mr Don MacKay and Dr Christopher Rogers will attend and observe TCC13. While in Pohnpei an in-country consultation with representatives from the Federated States of Micronesia has been arranged, as well as meetings with the Secretariat and TCC Chair/TCC Vice-Chair. Interviews and consultations with interested TCC13 delegates are also expected to take place in the margins of the TCC13.
13. Noting that CMM 2015-07 is effective until the end of 2017, there is presently some uncertainty as to the form of the CMS in 2018 and what will be the tasks for the Secretariat. It is therefore imperative for TCC to provide advice to the Commission on how the CMS should function in 2018 whilst the reviews finalizes its work with its Review Report to be provided to CCMs by March 2018, including budgetary implications.

Suggested Action:

14. TCC13 is invited to:

- i. Note the update on the progress of the Independent Review of the Compliance Monitoring Scheme; and
- ii. Provide advice to the Commission on how the CMS should operate after the expiry of CMM 2015-07 at the end of 2017.

Assessment of IUU vessel nominations and review of vessels currently on the IUU list

[(3) - TCC13-2017-08]

15. The WCPFC IUU Vessel List for 2017 includes three (3) vessels that are maintained from the previous year's list and there are no updates on these vessels. Four (4) vessels are

included on the draft IUU vessel list. The associated supporting documentation for the draft IUU vessel list are provided as attachments to TCC13-2017-08.

Review of cooperating non-member applications

[(4) - TCC13-2017-09]

16. Seven (7) requests have been received for renewal of Cooperating Non-Member (CNM) status in 2018, all from current CNMs. The supporting paper TCC13-2017-09 provides the dates of receipt of each request, the status of financial contributions and includes as attachments copies of letters and communications related to the requests.

Monitor obligations relating to Small Island Developing States and territories.

[(7) - TCC13-2017-RP01 - 07, TCC13-2017-]

[(5) - TCC13-2017-11a-d]

17. Working paper TCC13-2017-11b summarizes Capacity Assistance needs identified by CCMs, based on this year's Annual Report Part 2 and the draft CMRs. There are few requests from developing CCMs for consideration of Capacity Assistance Need scores in this year's draft CMR.
18. There was a 2017 budgetary allocation of \$130,000 for Regional Capacity Building Workshops, with a note that in 2017 this is for the Tuna Data Workshop (SPC) and MCS officer courses (FFA) in 2017. The Commission also administers special funds that are to be used for capacity assistance: Special Requirements Fund; Japan Trust Fund and Chinese Taipei Trust Fund. The WPEA project provides dedicated assistance to Philippines, Indonesia and Vietnam in data collection as well as other areas.
19. The Secretariat continued to assist CCMs with the compilation of their Annual Part 1 and 2 Reports at the margins of other regional gatherings like the FFA MCS Working Group meeting and the SPC Tuna Data Workshop. 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.
20. In 2016/17 the ROP Coordinator supported observer and de-briefer trainings, and assistance was given on request to help CCM programmes with observer training. The Secretariat continued to provide advice to national and sub- regional observer programmes on matters regarding provider and observer roles in relation to CMMs, Commission minimum standards for the ROP, and other ROP observer issues.

Suggested Action:

21. TCC13 is invited to consider the capacity assistance needs listed in Table 1 of TCC13-2017-11b and any other areas identified by CCMs during TCC13's review of dCMRs when developing the Provisional Compliance Report and noting the task set out in paragraph 30 (ii) of CMM 2015-07.

Review Annual report(s) of the WCPFC Secretariat

[(8) - TCC13-2017-RP01 – 08, IP01 and IP07]

[(14.2) - TCC13-2017-RP07]

22. TCC13 will be considering various annual reports required by the CMM and rules that regulate the operations of the various MCS tools and a snapshot overview of those reports are provided in the subsequent paragraphs..

Vessel Monitoring System (VMS) is presented in TCC13-2017-RP01.

23. As at 30 June 2017, there were 3777 vessels that were considered to be activated to report to the Commission VMS. In 2016/17 the Commission continued its association with the FFA and the Pacific VMS for Commission VMS services. The Pacific VMS ensures the FFA VMS and Commission VMS operate as two separate and distinct entities to protect the integrity of the Commission VMS data. The 2017 budget for Commission VMS services was \$455,000. Noting that the VMS Standard Operating Procedures were developed in 2009 the Secretariat plans to work on an updated version for consideration by TCC14.

Regional Observer Programme (ROP) is presented in TCC13-2017-RP02.

24. The ROP is comprised of 23 observer programmes of Members and sub-regional agencies. In 2016/17 most ROP observers for the 100% observer coverage on purse seiners were sourced from Pacific Island Observer Programmes. Pacific Island observer programmes continued to supply most observers to meet 100% high seas transshipment on carriers and some of the 5% ROP longline coverage rate requirement. There is often an attrition rate in observer programmes, so 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. A report on the new ROP observer safety CMM (CMM 2016-03) and the Secretariat's support to observer programmes implementation of the new ROP safety minimum requirements is included in TCC13-2017-RP02.

25. A report of the ROP data management is provided in TCC13-2017-IP05, the budgetary allocation in 2017 was \$923,904

Transshipment Reporting is presented in TCC13-2017-RP03.

26. In 2016 there were 948 high seas transshipment reported to the WCPFC Secretariat in accordance with CMM 2009-06; 23 receiving vessels and 352 offloading vessels from 7 CCMs were involved in these reported transshipments. Advance notifications and post-transshipment declaration reporting by CCMs of high seas transshipment events continues to improve and is complete in 2016 for some CCMs, but overall gaps remain in WCPFC holdings of reported transshipment events. From 1 Jan - 30 June 2017, 429 high seas transshipment activities were reported involving 18 receiving vessels and 324 offloading vessels from 7 CCMs.

High Seas Boarding and Inspection Scheme (HSBI) is presented in TCC13-2017-RP04.

27. In 2016 there were six members that conducted 108 high seas boarding and inspection activities in the Convention Area. From 1 Jan – 31 July 2017, four members had conducted 55 high seas boarding and inspection activities in the Convention Area. A total number of 146 vessels were boarded from 1 Jan 2016 – 31 July 2017 (and 17 vessels were boarded more than once during this period).

Record of Fishing Vessels (RFV) is presented in TCC13-2017-RP05

28. As at 20 September 2017, 28 CCMs (including five CNMs) have submitted 4648 records of their respective fishing vessels to the Executive Director. The RFV is continuously publicly available via the WCPFC web site as required by paragraph 9 of CMM 2014-03. Since August 2015 tables and graphs of summary information contained in the RFV have been made available on the website at <https://www.wcpfc.int/vessels/charts>. These summary statistics, presented as graphs and tables, are automatically updated, as the RFV changes and is reflective of what is in the RFV at that point in time.

Eastern High Seas Pocket Special Management Area (EHSP-SMA) is presented in TCC13-2017-RP06

29. During 2016, in accordance with CMM 2010-02, entry and exit reports for the EHSP-SMA were submitted to the Secretariat via email and are stored in WCPFC's IMS. The Entry/Exit reports received were 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. This year's report confirms that over 70 vessels were detected or reported entering or exiting the EHSP-SMA, and there were a few reported transshipment events.
30. From 7 February 2017, CMM 2016-02 and updated management arrangements for the EHSP came into effect. The Secretariats 'live list' of all fishing vessels present in the EHSP in the secure page on the WCPFC website, is as required by the measure.

Administration of the WCPFC data access rules and procedures is presented in TCC13-2017-RP07

31. In 2016/17 the Secretariat has maintained its system of controls over approvals for access to WCPFC data and information. In 2016/2017, the Secretariat received and processed sixty (60) requests from Members and others for specific WCPFC data, some of which related to multiple types of WCPFC non-public domain data.

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 is presented in TCC13-2017-RP08.

This is an annual requirement as per the VMS SSPs, and the budgetary allocation in 2017 was \$8400. The recommendations from the report were recently received by the Secretariat, and acknowledges that work is underway by the Secretariat on disaster recovery and redundancy. The report and its recommendations are presently being considered.

Online solutions for CCMs and other stakeholders and future IMS priorities

32. In 2017, the Secretariat confirms the delivery of a number of online technical solutions including:
- i. In April 2017, CCMs were advised of the delivery of an online technical solution to make available to authorized CCM MCS personnel, through secure login, a list of vessels that have been previously inspected under the HSBI scheme specifically, the VID, Vessel Name, IRCS, date of boarding and Name of inspecting member;
 - ii. In May 2017, CCMs were advised that the necessary joint work with SPC-OFP, in their capacity as data services provider, had been completed to support GEN-3 pre-notification process of possible alleged infringements;
 - iii. In June 2017, CCMs were advised of the delivery of the "List of vessels WCPFC VMS reporting status" online technical solution; and

- iv. The Secretariat will advise TCC13 on the mechanism that has been developed so Members, and potentially non-government stakeholders, can access and analyze historical information from the RFV.
33. The Secretariat maintains that there are five priority work areas for future IMS development within the Secretariat over 2016-2018:
- 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; and
 - e) integration of WCPFC Catch and Effort data, held and maintained by SPC-OFI into the WCPFC IMS datasets.
34. The Secretariat observes that the annual budget allocation of \$100,000 for IMS development and maintenance and the annual amount for online publishing through the website, including of Annual Report Part 2 (\$18,000), together with in-kind contributions (financial and resourcing) from some Members, has been sufficient to support the Secretariat's work to date.

Secretariat Resourcing

35. Eleven of thirteen MCS/Compliance staff positions (4 professional level and 7 locally recruited staff) are in place: one ROP data entry staff resigned in early 2016 and one VMS Officer resigned in mid-2017. The staffing levels for the Secretariat in the MCS/Compliance area has not changed since 2012. However over recent years, the Secretariat MCS/Compliance work of the Secretariat has been supplemented through consultancy, secondment and from in-kind assistance. These include legal support services (Dr Penny Ridings) and technical expertise in sharks and bycatch (Dr Shelley Clarke supported through the in-kind assistance of the GEF-ABNJ Project to WCPFC). The future staffing levels of the Secretariat should be considered alongside the outcome of the CMS review. This should also consider the future priorities of the Commission in the MCS/Compliance area, and the associated expertise and staffing levels that would be best suited in the Secretariat to adequately support the Commission's priorities and ongoing work.
36. A list of the travel commitments of the MCS/Compliance staff from October 2016 – September 2017 are listed in Attachment I.

Suggested Action:

37. TCC13 is invited to consider the Annual Reports of the WCPFC Secretariat as contained in RP01 – RP08.

Review the ongoing work of the Intersessional Working Groups (IWG)

[(8.2) – TCC13-2017-14]

[(8.3a) – TCC13-2017-15]

[(10) - TCC13-2017-16a –c, DP03]

38. Four (4) Intersessional Working Groups are identified in the TCC Workplan 2016 -2018 for TCC to review their ongoing work:
 - i. ROP IWG: Review ROP;
 - ii. FADMgmtOptions- IWG: Review and develop FAD measures;
 - iii. CDS IWG: Develop and implement a Catch Documentation Scheme for WCPFC species; and
 - iv. ER and EM IWG: Continue the development of standards, specifications and procedures for e-technologies.
39. A priority issue that was forwarded from the Commission to TCC13 is to further consider the outcomes of the Second Meeting of the FAD Management Options Intersessional Working Group. Four papers to support this review are provided in TCC13-2017-16a –c and TCC13-2017-DP03.
40. The Commission did not approve a budget for any meetings in 2017, but work related to the CDS-IWG and ER and EM IWG were expected to continue to be progressed.
41. SPC-OFP has progressed draft standards for E-reporting of observer data, and the Secretariat has progressed the development of draft standards for E-reporting of transshipment notices and declarations. Two papers presenting these draft standards for E-reporting are provided in TCC13-2017-14 and TCC13-2017-15.
42. There was a 2017 budgetary allocation of \$60,000 for interim support for an ER-EM technical coordinator position at the Secretariat on the basis of the acknowledged need for the Secretariat to undertake critical work in this area. In August 2017, the Secretariat engaged Mr Kim Duckworth on a consultancy basis primarily to assist the WCPFC Secretariat with scoping and developing a work plan for implementation of MCS/compliance E-reporting at the Secretariat. The scope of this work will be for CMM reporting that are presently received and data entered at the WCPFC Secretariat offices, particularly high seas transshipment notices and declarations, reporting in the event of VMS malfunction and high seas pocket reporting. The Secretariat will provide additional updates on the progress of the scoping and development of the proposed work plan for implementation of E-reporting at the Secretariat to TCC13.
43. Since WCPFC13, the Secretariat has been working with a WCPFC member who has indicated an interest and ability to provide support to the Secretariat in the E-reporting area. At the time of writing this paper, the contractual issues for this supplementary support to the Secretariat were still being finalised.
44. The contribution by SPC-OFP to the E-reporting standards work is funded in part through the Scientific Services (SPC) and ROP Data Management budget line items in the Commission budget.

Suggested Action:

45. TCC13 is invited to:

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| <ol style="list-style-type: none">i. Consider the recommendations of the FADMgmtOptions-IWG02 and provide |
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- advice to the Commission;
- ii. Consider the Electronic Reporting Standards for Observer Data (Attachment 1 to TCC13-2017-14) and recommend as appropriate to WCPFC14;
 - iii. Consider and provide comments and feedback on the draft Standards for the E-reporting of Transshipment Declarations and Transshipment Notices (Attachment 1 to TCC13-2017-15)
 - iv. Note the proposed next steps for implementation of Transshipment E-reporting at the Secretariat described in TCC13-2017-15; and
 - v. Provide advice to the Commission on the relative priority that should be placed on the ongoing work of the four Intersessional Working Groups in 2018, including whether any 2018 meetings of the IWGs are necessary.

Review of information about technical and compliance matters arising under existing CMMs

*[(5) - TCC13-2017-11a-d]
[(11) - TCC13-2017-IP07, IP08, IP11]*

46. The draft CMR that is annually prepared by the Secretariat includes information sourced from reports submitted by CCMs as required in CMMs and other Commission obligations, such as Parts 1 and 2 of the Annual Reports as well as information available to the Commission through other data collection programs, including but not limited to, Regional Observer Program data and information, Vessel Monitoring System information, High Seas Boarding and Inspection Scheme reports, and any additional suitably documented information regarding compliance during the previous calendar year. As such the draft CMRs present for TCCs review a significant amount of information that can usefully inform the TCC's review of technical and compliance matters under existing CMMs during the 2016 calendar year.
47. A paper that lists obligations that the Secretariat has identified through its preparation of draft CMRs that could be useful for TCC to provide some further advice and direction in relation to their implementation by CCMs is provided in TCC13-2017-11d.

Suggested Action:

48. TCC13 is invited to consider Table 1 in TCC13-2017-11d and any other areas identified by CCMs during TCC13's review of dCMRs when developing the Provisional Compliance Report and noting the task set out in paragraph 30 (i) and (iii) of CMM 2015-07.

Provision of technical advice on proposed CMMs

[(12) - TCC13-2017-19, 20, DP01]

49. Three proposed CMM proposals were submitted for TCC13s consideration at the time of preparing this paper:
 - i. TCC13-2017-19: Rev5 of the draft Bridging Measure for Tropical Tunas (Consultative Draft) -

- ii. TCC13-2017-20: Draft Bridging CMM for south Pacific Albacore (Consultative Draft);
- iii. TCC13-2017-DP01_rev1: Proposed changes to CMM 2015-03 in regards the seabird mitigation requirements

Suggested Action:

50. TCC13 is invited to provide technical comments on the proposed CMMs to the proponents.

Conclusion

- 51. The Compliance Monitoring Scheme (CMS) remains at the core of the Commission's MCS programme. It provides the platform for the TCC to undertake its key task of assessing the level of compliance of CCMs of their obligations under the WCPFC Convention and CMMs. But it is a platform that rests on top of a network of MCS tools that furnish it with the relevant data and information that inform TCC's assessment. So the independent review of the CMS is timely and the Secretariat stand ready to support the review with the expectation that the review outcomes will suggest improvements to enhance the efficiency and effectiveness of the CMS.
- 52. Continued improvements to the Secretariat Information Management System (IMS) is essential to the servicing of the CMS as more of its support programme are IMS-hosted databases. TCC and the Commission are strongly urged to continue to adequately resource this area of work of the Secretariat.
- 53. The work on electronic reporting and monitoring hold huge potential for enhance data collection, coverage and quality in the future. The Secretariat has utilized efficiently its limited budget in this area and with the financial assistance assured by the New Zealand the Secretariat is hopeful that much will be achieved in this area during 2017/18. With smart investment in this area, the Commission can expedite the development of the necessary framework to operationalize e-reporting and e-monitoring at the Commission level.

Recommendation

54. TCC13 is invited to note the report.

Attachment 1 - Travel by WCPFC MCS/Compliance staff in 2016/2017:

A list of the travel by the senior Compliance/MCS staff in late 2016/2017 is provided below. The travel has included assistance and involvement in sub-regional activities directly related to the WCPFC work areas. Most travel is funded from the *staff travel* line items in Part 1 of the budget and dedicated activity line items in Part 2.3 of the Technical and Compliance Programme.

Australia, Sydney

- Meeting of Panel for Independent Review of the CMS (August 2017) – Compliance Manager and Assistant Compliance Manager

China, Shanghai

- ROP Audit (June 2017) – Regional Observer Programme Coordinator

Cook Islands, Rarotonga

- SC13 (August 2017) – Compliance Manager, Assistant Compliance Manager, Regional Observer Programme Coordinator

European Union, Spain

- Joint Tuna RFMO Compliance Officers meeting (March 2017) – Assistant Compliance Manager

Federated States of Micronesia, Pohnpei

- IATTC/WCPFC Cross Endorsement Training (February 2017) - Regional Observer Programme Coordinator
- SPC observer training (August 2017) - Regional Observer Programme Coordinator

Fiji

Nadi

- WCPFC13 and associated meetings (Dec 2016) – Compliance Manager, Assistant Compliance Manager, VMS Manager, Regional Observer Programme Coordinator.
- FFA/SPC Data Collection Committee meeting (Dec 2016) - Compliance Manager, Regional Observer Programme Coordinator and Assistant Compliance Manager.
- Regional Observer Coordinators Workshop (Feb 2017) – Regional Observer Coordinator & Data Quality Officer

Suva

- Pacific Islands UN Oceans Conference meeting (March 2017) – Compliance Manager.

Indonesia, Jakarta

- Observer training (March 2017) - Regional Observer Programme Coordinator.

Republic of Korea, Busan

- ROP Audit (July 2017) – Regional Observer Programme Coordinator

Republic of Marshall Islands, Majuro

- ROP Audit (October 2016) – Regional Observer Programme Coordinator
- FSM, Marshall Islands, Palau, Solomon Islands E-Monitoring meeting (March 2017) - Compliance Manager.

New Caledonia, Noumea

- SPC Tuna Data Workshop (April 2017) – Assistant Compliance Manager.

- WCPFC-SPC meeting on joint procedures in support of the Online WCPFC Compliance Case file system (July 2017) – Compliance Manager, IT Manager

Papua New Guinea, Port Moresby

- ROP Audit (July 2017) – Regional Observer Programme Coordinator

Philippines, Manila

- Observer training Bureau of Fisheries and Resources (May 2017) - Regional Observer Programme Coordinator.

Solomon Islands, Honiara

- FFA MCS Working Group (March 2017) - Assistant Compliance Manager

Chinese Taipei, Taipei

- ROP Audit (October 2017) – Regional Observer Programme Coordinator

United States of America,

Honolulu

- Intersessional Meeting on the Bridging Measure for Tropical Tunas (August 2017) - Compliance Manager

New York

- United Nation-Nippon Foundation of Japan Fellowship Programme Alumni meeting in conjunction with The Ocean Conference (June 2017) – Assistant Compliance Manager
