

PROGRESS REPORT OF THE IOTC SECRETARIAT: 2017

Submitted by: IOTC Secretariat

1. MEMBERSHIP OF THE IOTC

1. **Contracting Parties:** In 2017, the IOTC consisted of 31 Contracting Parties: Australia, China, Comoros, Eritrea, European Union, France (OT), Guinea, India, Indonesia, Iran (Islamic Rep. of), Japan, Kenya, Korea (Rep. of), Madagascar, Malaysia, Maldives, Mauritius, Mozambique, Oman, Pakistan, Philippines, Seychelles, , Sierra Leone, Somalia, South Africa, Sri Lanka, Sudan, Tanzania (United Rep. of), Thailand, United Kingdom (OT) and Yemen.
2. Guinea had previously notified the FAO Director-General of its withdrawal from the membership of IOTC, which became effective on 31 December 2017.
3. **Cooperating Non-Contracting Parties (CNCP):** In 2017, there were three CNCPs to the IOTC: Bangladesh, Liberia and Senegal.

2. MISSION OF THE IOTC SECRETARIAT AND STRATEGY OF IMPLEMENTATION

4. The mission of the IOTC Secretariat is:

“To facilitate the processes required to implement the policies and activities of the Commission, whose goal is to achieve the objectives stated in the IOTC Agreement.”

In essence, these processes include the acquisition, processing and dissemination of information that constitutes the basis for informing the Commission’s decisions, as well as supporting the actions taken by Contracting Parties (Members) and Cooperating Non-Contracting Parties (CNCPs) (collectively termed CPCs) to effectively implement those decisions. The structure of the IOTC Secretariat in 2017 is provided in Figure 1. Note, in 2017, the Commission agreed to a new staff structure to take effect from 2018 (Figure 2)

2.1 Professional Staff – Recruitment activities

5. At the start of 2017, there were two vacant Professional grade staff posts of in the IOTC Secretariat:
 - a. P5 Deputy Secretary/ Science Manager since July 2016
6. The recruitment process for the D1 Executive Secretary was completed and the selected candidate commenced on 1 July 2017. The title of the P5 Deputy Secretary was changed to Science Manager after endorsement at the S21 and the recruitment process commenced in the second half of 2017.
7. The recruitment processes for the P5 Compliance Manager and the P1 Fishery Officer (Data Expert) also commenced in the second half of 2017 in line with the new IOTC Secretariat structure to be introduced in 2018.

2.2 General Service Staff – Recruitment activities

8. The G4 Office Assistant left the IOTC Secretariat in March 2017 and two attempts to find a replacement have failed. The post is being advertised again.
9. The G6 Compliance Assistant left the IOTC Secretariat in June 2017 and a recruitment process is underway for a replacement. However, it is proving to be very difficult to attract local staff with the necessary qualifications and experience.
10. Attracting and retaining General Service staff has proved to be difficult in the past few years. However, a recent local salary increase of approximately 27% is expected to enable IOTC to attract more applicants. The salary increase (retroactive to June 2016) is the result of a periodic UN salary survey / reference check, and has been endorsed for all General Service UN staff in Seychelles.

3. REPORTING STRUCTURE

11. To facilitate accountability, the activities of the IOTC Secretariat in 2017 have been grouped into six (6) major functional areas which reflect the ‘*Program of work and budget*’ approved by the Commission at its 21st Session in 2017, as follows:

- **Support to scientific activities:** The acquisition and processing of scientific data, as required by the Scientific Committee to conduct stock status analyses. Supply of stock assessment services as required by the working groups.
- **Support to compliance activities:** Maintenance of lists of vessels and compliance databases, reporting on compliance by Contracting Parties and Cooperating Non-Contracting Parties (CPCs). Providing support to CPCs in the implementation of IOTC Resolutions.
- **Communications and public information:** Considered essential in allowing CPCs to follow the progress of the Commission’s work in a transparent way, and to increase the visibility of the Commission’s activities to the general public.
- **Support to meetings:** Logistic support in the facilitation of meetings, preparation of reports and maintenance of the meetings calendar
- **Information Technology:** Provide basic computer infrastructure, including maintenance of the network and servers, as well as Internet support.
- **Administration:** Financial administration in conjunction with FAO, administration of extra-budgetary funds, travel arrangements, general logistical support to the activities of the technical sections.

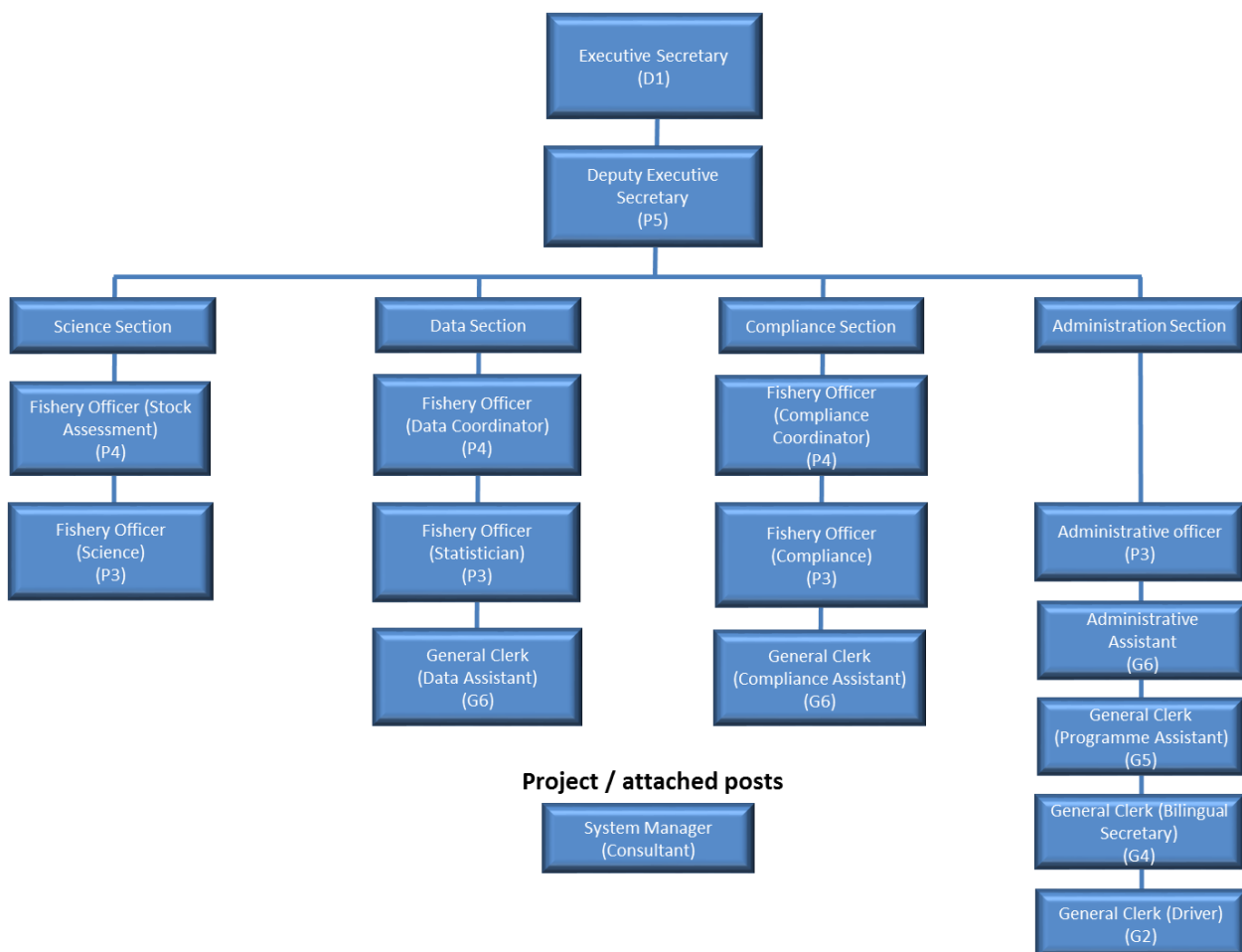


Figure 1. Structure of the IOTC Secretariat in 2017.

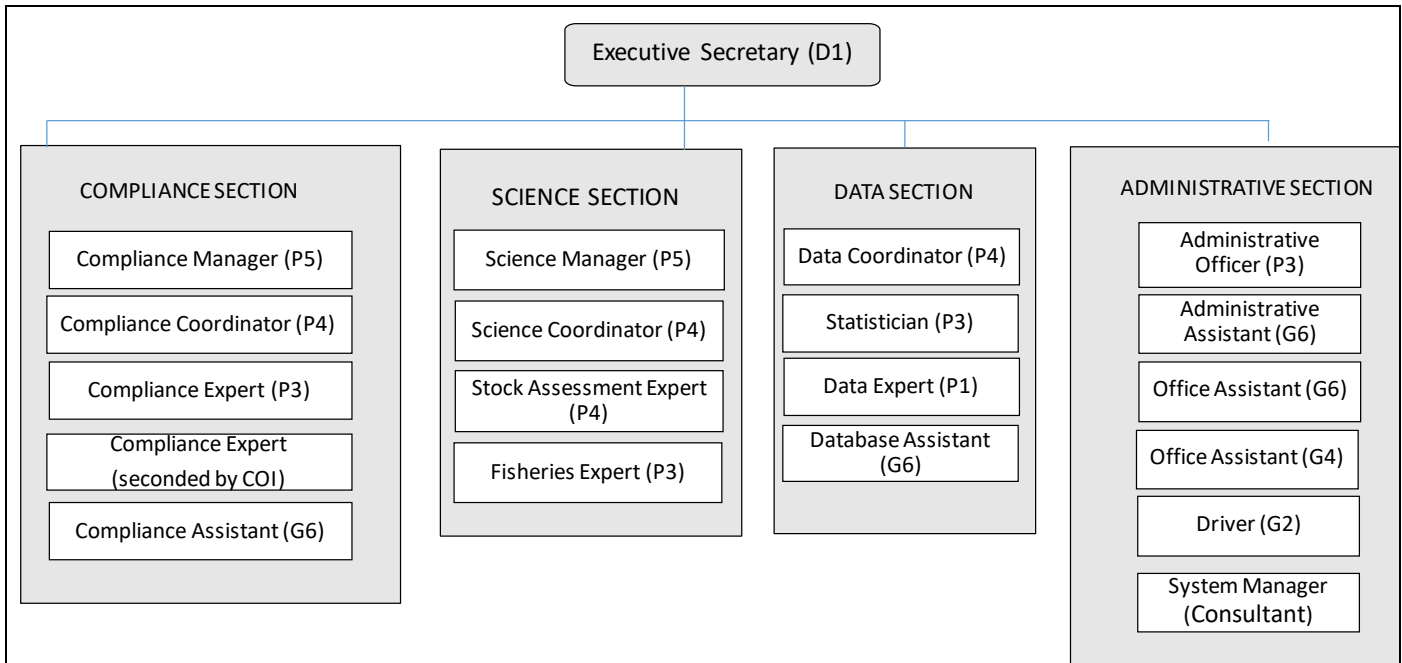


Figure 2. Structure of the IOTC Secretariat from 2018.

4. SUPPORT TO SCIENTIFIC ACTIVITIES

4.1 Role of the IOTC Secretariat in technical matters

12. The IOTC Secretariat currently provides the following services in the scientific processes of the Commission:
- Advice and training in data collection;
 - Advice and training on stock assessment methods;
 - Advice, management and coordination of a limited range of scientific activities (e.g. previously tagging; CPUE standardisation);
 - Preparation and provision of summary mandatory fisheries statistics for use by CPCs for research and the production of stock assessments (e.g. catch at size and catch at age);
 - Preparation and reporting on the status of the IOTC databases to Working Parties;
 - Drafting of species Executives Summaries;
 - Drafting and production of the Working Party and Scientific Committee reports;
 - Organisation of the Working Parties and Scientific Committee;
 - Preparation of background documents for the Working Parties and the Scientific Committee;
 - Stock assessments on species as determined by the Scientific Committee.

4.2 Science Staffing

13. The IOTC Secretariat's scientific support services area was staffed by six (6) positions as follows:

- Science Manager (P5) (*vacant*)
- Fishery Officer (Stock Assessment) (P4)
- Fishery Officer (Data Coordinator) (P4)
- Fishery Officer (Statistics) (P3)
- Fishery Officer (Science) (P3)
- General Clerk (Data Assistant) (G6)

4.3 Scientific meetings

4.3.1 IOTC meetings – Working parties & Scientific Committee

14. In 2017, seven (7) Working Party meetings were organised and facilitated by the IOTC Secretariat (Table 1). The current Chairs and Vice-Chairs for each Committee and Working Party are provided at Appendix 1.
15. Appendix 2 lists the documents produced by the IOTC Secretariat in support of Working Party meetings held in 2017. In addition, the IOTC Secretariat produced revised Executive Summaries for all of the IOTC stocks, as well as for sharks, seabirds and marine turtles in association with various experts, totalling 25 Executive Summaries.
16. The IOTC Secretariat facilitated the participation of invited experts that were selected to attend each of the Working Party meetings in 2017. The names and affiliations of each of the Invited Experts are provided in Table 1.

Table 1. Invited Experts for Working Party meetings in 2017

Working Party	Date and place	Name	Affiliation
Neritic Tunas	10-13 July, Maldives	Dr. Charles Edwards	NIWA, Australia
Temperate Tunas	Nil	Nil	Nil
		Dr. Humber Andrade	Universidade Federal Rural de Pernambuco, Brazil
Billfish	10-14 September, Spain	Dr Toshihide Kitakado	Tokyo University of Marine Science and Technology, Japan
Ecosystems and Bycatch	4-8 September, Spain	Dr. Felipe Carvalho	NOAA, USA
Tropical Tunas	17-22 October, Seychelles	Dr Rishi Sharma	NOAA, USA
Methods	13-15 October, Seychelles	Dr Toshihide Kitakado	Tokyo University of Marine Science and Technology, Japan
Data Collection and Statistics	26-28 November, Seychelles	Nil	Nil

Table 2. Scientific Meetings held in 2017 and previous years. Numbers in brackets represent numbers for the previous working party meeting.

Working Party	Date and place of most recent meeting	No. of participants							Meeting Participation Fund							No. of documents (and for the previous meeting)
		2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017	
Neritic Tunas	10-13 July, Maldives	28	35	42	37	31	20	26	9 ¹	10	11	13	9	11	12	Total: 28 (28) Working papers: 27 (26) Information papers: 1 (2)
Temperate Tunas	18-21 July 2016, Shanghai, China	16	26	–	27	–	29	–	2	3	–	3	–	4	–	Total : 29 (30) Working papers : 29 (26) Information papers : 0 (4)
Billfish	10-14 September, Spain	27	23	24	21	23	18	25	5	5	10	4	9 ²	6	10	Total: 39 (29) Working papers: 37 (28) Information papers: 2 (1)
Ecosystems and Bycatch	4-8 September, Spain	49	48	32	37	38	34	39	7 ³	7	11	5	8 ⁴	11	7	Total: 61 (53) Working papers: 43 (42) Information papers: 18 (11)
Methods	13-15 October, Seychelles	–	22	–	34	26	29	28	–	1	–	3 ⁵	6 ⁶	4	6	Total: 27 (18) Working papers: 22 (17) Information papers: 5 (1)
Data Collection and Statistics	26-28 November, Seychelles	21	–	23	30	20	32	45	2	–	5	1	4	6	11	Total: 45 (33) Working papers: 40 (28) Information papers: 5(5)
Tropical Tunas	17-22 October, Seychelles	49	47	46	53	44	44	49	13	8	10	6	6	15	11	Total: 55 (42) Working papers: 49 (39) Information papers: 6 (3)
Scientific Committee	30 November -4 December, Seychelles	50	54	75	62	71	65	63	10	12	11	15	13	10	14	Working papers: 14 (16) Executive Summaries: 26 (25) Information papers: 9 (6)

¹ Another 7 scientists were supported by IOTC through the Capacity Building funds as they were also attending the capacity building workshop in Chennai, India (WPNT01)

² 2 scientists attended both the WPB and WPEB;

³ 3 scientists attended both the WPTT and WPEB

⁴ 2 scientists attended both the WPB and WPEB

⁵ 3 scientists attended both the WPM and SC

⁶ Funded by the ABNJ tuna project

4.3.2 IOTC meetings – Science Meeting Participation Fund usage

17. The IOTC Meeting Participation Fund (MPF) was utilised for the indicated scientific meetings and Working Parties indicated in Table 2. The total allocation for MPF in 2017 was US\$200,000. MPF expenditure in 2017 reached US\$202,942, of which US\$20,000 was covered by an extra-budgetary contribution from China. There was therefore a small overall saving of US\$17,057.73. This saving was used to offset the over-expenditure of US\$11,022 from 2016. .
18. Noting that the intention of the MPF was to utilise the funds, as a first priority, to support the participation of scientists from developing Contracting Parties in scientific meetings of the IOTC, including Working Parties, the IOTC Secretariat facilitated the participation of 59 individuals from developing Contracting Parties of the IOTC to the six Working Party meetings held in 2017, as detailed in Table 2. Overall participation in the MPF for scientific meetings decreased slightly from 67 in 2016 to 59 in 2017. This was partly due to the WPTmT not taking place in 2017.
19. The 2017 meetings of the CoC14, SCAF14 and S21 in Yogyakarta, Indonesia, accounted for an expenditure of US\$49,155.75 against the non-scientific MPF budget. This was a slight increase compared to the same meetings in 2016 (US\$43,813). In 2017, the IOTC Secretariat facilitated the participation of 15 individuals from developing CPCs of IOTC to the non-scientific meetings, as detailed in Table 3.

Table 3. Participants of non-scientific meetings supported by the MPF in 2017, with 2016, 2015 and 2014 participant numbers presented for comparison.

Meeting	2014	2015	2016	2017
Compliance Committee	13	11	19	15
Standing Committee on Administration and Finance	12	11	19	15
Session of the Commission	13	13	19	15

4.4 Science activities (2017)

20. CITES data mining and indicator development: This work was part of the WPEB Program of Work and funded by CITES. The main objectives of this workshop were to conduct data mining to compile historical data for CITES-listed oceanic whitetip (*Carcharhinus longimanus*) and hammerhead sharks, namely *Sphyrna lewini*, *S. mokarran* and *S. zygaena* and develop descriptive indicators related to stock status. The final report was completed in March 2017 and was made available to the WPEB13 through paper IOTC-2017-WPEB13-INF01.
21. Neritic tuna growth meta-analysis workshop: In July 2017, a workshop was held to improve the estimates of growth for neritic tuna species. Estimates of growth for neritic tuna species in the Indian Ocean are highly variable so the WPNT requested a meta-analysis to take place using the raw length data to obtain a combined picture of parameters related to growth in the Indian Ocean. Full details of the data and methods used are provided in IOTC–2017–WPNT07–14.
22. Data Limited Tool training workshop: In May 2017 a training workshop in data-limited stock assessment methods was organised by the IOTC Secretariat. The training course was developed and funded by the FAO-ABNJ Common Oceans Tuna Project, and was tailored specifically for the Indian Ocean tuna fisheries. The course provided an introduction to data-limited stock assessment methodologies; introduction to simulation testing concepts such as operational modelling, observation error models, closed-loop testing, performance metrics, trade-offs and value of information analysis; implementation of data-limited assessment methods for real data-limited fisheries, diagnostics, graphing outputs, management procedures selection and an introduction to simulation testing procedures of alternative harvesting options. The workshop was attended by 16 people, and financial support was provided for developing CPCs from the FAO ABNJ Tuna Project.
23. Blue shark catch reconstruction: The IOTC Secretariat worked with the stock assessment consultant to develop statistical approaches for the estimation of historic blue shark catches.
24. Stock assessments were carried out in 2017 on the following stocks:

- Blue shark (consultant)
 - Swordfish (IOTC stock assessment scientist)
 - Skipjack (IOTC stock assessment scientist)
 - Neritic tuna stock assessments: data-poor stock assessment methods were used by the IOTC Secretariat to assess the status of stocks of longtail tuna, and narrow-barred Spanish mackerel.
25. IOTC Species Identification (ID) guides: Work is ongoing to translate, typeset, format and print the IOTC Species ID guides into the priority languages identified by the SC. An update on current progress is available in IOTC-2016-SC19-07.
26. Cetacean Identification (ID) guides: A consultant was hired to develop a set of cetacean ID guides for the Indian Ocean. The Marine Mammal Commission will be supporting translation of the guides into priority languages identified by the WPEB13 and also covering the printing expenses. The priority languages identified are Japanese, Chinese (Mandarin and Taiwanese), French and Spanish for species names and French, Spanish, Persian, Urdu, Sinhalese and Tamil, Hindi, Bahasa Indonesian, Arabic and Swahili for the entire booklet.
27. IOTC FAD working group: An internal IOTC working group on FADs was held prior to the joint working group as recommended by the SC19. The one-day meeting was co-Chaired by the Chair of the Commission and the Chair of the Scientific Committee and the data received by the Secretariat were reviewed and discussed by the group, particularly in light of the potential for estimating the total number of active FADs. The room for interpretation regarding the categories of FADs was observed by the group, who considered that the WPDCS should play a key role in revising these classifications to ensure that they are mutually exclusive and prevent the possibility of double-counting FADs. One of the main points of agreement from the group was the need for consistent terminology and definitions when referring to FAD-related activities, such as ‘non-entangling’ and ‘biodegradable’, a consensus that was echoed at the joint tRFMO meeting. A further item noted was the loop-hole within Resolution 15/08 whereby a date for commencing the implementation of non-entangling FADs is provided, however, no date is provided by which they should have been fully implemented.

Joint tRFMO activities

28. Ecosystem Based Fisheries Management: In December 2016, the IOTC Secretariat, with the SC and WPEB Chairpersons, attended a joint meeting of tuna RFMOs on the Implementation of the Ecosystem Approach to Fisheries Management. The current status of the application of EBFM in each tRFMO was discussed and compared in light of the differing underlying RFMO Agreements and Conventions, institutional structures, Member participation and fisheries. Examples of successful implementation of EBFM at the national level were discussed based on case studies presented from Australia and the USA. The challenges to taking similar approaches in international tuna fisheries were discussed and potential solutions to overcome these were reviewed as part of a draft framework. The full report is available online as document: IOTC-2017-WPEB13-INF09.
29. Joint FAO/CITES/RFMO and RFB workshop: In March 2017 the IOTC Secretariat and Chair of the WPEB attended a joint workshop to discuss relevant outcomes of the 17th meeting of the Conference of Parties to CITES (particularly those concerning sharks), evaluate the 2013-2016 CITES project outputs and discuss opportunities for future collaboration. Results of the joint IOTC-CITES 2016 project were presented and discussed.
30. SeaBird Bycatch Assessment Workshop: In early 2017, the IOTC Secretariat attended two regional seabird bycatch assessment workshops which aimed to strengthen the capacity of national scientists and institutions to manage and conduct analyses of seabird bycatch data and the effectiveness of bycatch mitigation measures and develop harmonised assessment methods to facilitate annual seabird bycatch assessments by RFMOs and/or CPCs and for the global assessment of current bycatch levels.
31. Joint FAD working group: A joint tRFMO meeting was held in Madrid in April 2017 between IOTC, ICCAT and IATTC. This provided an overview of the different stages that each tRFMO has reached in the research and management of FAD fisheries. While a substantial amount of research has taken place in IATTC, the IOTC remains the only tRFMO to have taken the practical step of implementing a limit on the number of active FADs that may be used. A summary table of key priority areas for future work at the level of the CPC, RFMO and across tRFMOs through a Kobe-type process was prepared and agreed on by Members of each tRFMO. EU funding was provided to support the attendance of developing CPCs at this meeting.

Stock assessment consultants

32. Dr. Joel Rice: blue shark catch reconstruction and stock assessment.
33. Dr Dale Kolody: yellowfin and bigeye tuna management strategy evaluation (MSE) — co-funded by the FAO ABNJ Tuna Project.
34. Dr. Simon Hoyle: collaborative longline CPUE. A follow-up CPUE workshop was arranged to examine the contrary signals of abundance noted for the major tropical species between Taiwan, China, Japan, and Rep. of Korea, and to update and develop the collaborative longline CPUE for tropical and temperate tunas. Five papers on the results of developments in the collaborative CPUE were presented at WPTT19 and WPM08 — funded by the European Union (DG-Mare).

4.5 Data-related activities**4.5.1 Data-related activities: Capacity building and other initiatives**

35. Integrated IOTC database: the data management workflow has been finalized and testing is under way. The possibility of integrating the database data upload facilities within the context of the e-MARIS platform (see below), as well as the inclusion of metadata standards to facilitate the dissemination of information within the scientific community have been explored.
36. The regular suite of datasets were supplied for all scientists engaged in stock assessment activities, in addition to reports on status of IOTC databases for the relevant Working Parties, the Scientific Committee, and for preparation of the Country Reports of the Compliance Committee. In addition to the standard fishery datasets, the IOTC Secretariat continues to periodically update the RTTP tagging dataset to incorporate any new information on recaptures received.
37. The IOTC Secretariat continues to facilitate or provide direct support to developing coastal states using funds from the IOTC capacity building budget or other collaborating agencies. Funding by the European Union (DG-Mare) is currently being used to fund a number of science and data related capacity building activities, including implementation of the Regional Observer Pilot Project, and Management and Strategy Evaluation frameworks.
38. The Overseas Fishery Cooperation Foundation of Japan (OFCF) has also provided resources and advice for the strengthening of data collection systems in more than 20 countries in the region since its inception in 2002, and is currently implementing Phase 5 of the Project focused on the compilation of fisheries satellite accounts, which aim to measuring the economic impact of fisheries at the national level. In recent years the IOTC Secretariat has also cooperated with COI-SmartFish, the FAO BOBLME Project, the FAO ABNJ Tuna Project, the ISSF, NOAA and WWF in the coordination and execution of capacity building activities in developing coastal states of the Indian Ocean, and also the implementation of the Regional Observer Scheme.
39. Following is a summary of the capacity building activities undertaken during 2017^[1]:
 - Indonesia: final workshop and evaluation of the pilot sampling project of artisanal fisheries (March)
 - IOTC Data compliance and support missions, including:
 - Sri Lanka (April)
 - Maldives (July)
 - I.R. Iran (November)
 - Kenya (December)
 - Pilot project to facilitate the acquisition of sports fishery data in the Western Indian Ocean (January-September).
 - IOTC Regional Observer Scheme e-Reporting tools: finalization of development and delivery of a training workshop in Sri Lanka (December)

4.5.2 Other data initiatives

40. **CLAV**: The IOTC Secretariat is responsible for the coordination of activities concerning the global Consolidated List of Authorized Vessels (CLAV), a regularly updated list including the authorized vessels of the five t-RFMOs. Collaboration between the IOTC Secretariat and FAO-FIPS continued in 2017 with the goal of exploring new, additional uses of the platform as a tool to combat IUU fishing.
41. **E-Mar**is: an integrated, electronic reporting system that supports automatic integration of data and information from CPCs into the IOTC Secretariat's databases, and automatic cross-referencing and reports for various obligations, in

^[1] For more information on these activities refer to: IOTC capacity building activities in support of developing coastal IOTC CPCs: 2017 activities. IOTC–2017–WPDCS13-08, or email: iotc-secretariat@fao.org.

particular related to the provision of scientific data. A consultation and validation workshop with CPCs was held in October 2017 in Cape Town.

Table 4. Missions of staff from the IOTC Secretariat during 2017 in relation with capacity building activities in the Indian Ocean.

Country	Date	Staff	Description
<i>Science and Data</i>			
Kenya	13-17 Feb	IOTC Fisheries Statistician	Technical assistance mission: review of Kenya's Catch Assessment Survey methodology, and evaluation of provisional results.
Indonesia	14-17 Mar	IOTC Fisheries Statistician, IOTC Consultant	Final workshop of the IOTC-OFCF-BOBLME pilot sampling project of artisanal fisheries in Indonesia.
Sri Lanka	22-27 Apr	IOTC Fisheries Statistician, IOTC Data Assistant	i.) Scoping mission to evaluate the feasibility of implementation of Electronic Monitoring Systems on Sri Lankan gillnet/coastal longline vessels. ii.) Data compliance and support mission
Pakistan	16-19 May	IOTC Fisheries Statistician	i.) Attend the WWF Transparency and Traceability of tuna fisheries workshop. ii.) Provide technical support for the collection, and reporting of WWF-Pakistan's crew based observer scheme. iii.) Scoping mission to evaluate the feasibility of implementation of Electronic Monitoring Systems on Pakistani gillnet vessels
Maldives	15-19 Jul	IOTC Fisheries Statistician	Data compliance and support mission: assistance for revision of neritic tuna and tropical tuna catch reconstruction.
La Réunion, Mauritius, and Kenya	20-27 Aug; 27 Aug–3 Sept; 3-9 Sept	IOTC Fisheries Statistician, IOTC Data Coordinator, IOTC Consultant	Improve the acquisition of catch and effort, and size data from Sports and recreational fisheries in the Western Indian Ocean.
South Africa	22-28 Oct	IOTC Data Coordinator	Consultation and validation workshop on the development of an integrated electronic Monitoring and Reporting Information System (e-MARIS).
I.R. Iran	8-16 Nov	IOTC Data Coordinator, IOTC Fisheries Statistician	Data compliance and support mission, including support for implementation of the Regional Observer Scheme.
Kenya	10-14 Dec	IOTC Data Coordinator	i.) Technical assistance mission to evaluate Kenya's new integrated fisheries database statistical system. ii.) Catch Assessment Survey and IOTC Sport Fisheries Project back-stopping mission
Sri Lanka	9-14 Dec	IOTC Fisheries Statistician, IOTC Data Assistant	Delivery of a first workshop for the adoption of the Electronic ROS data collection, reporting and management tools.
Thailand	9-13 Jan	Compliance Officer	Implementation of Port State Measures (PSM) and e-PSM application training
Indonesia	16-20 Jan	Compliance Officer	Implementation of PSM and e-PSM application training
Mozambique	6-10 Feb	Compliance Officer	Follow-up Compliance Support Mission and Implementation of PSM
Mauritius	20-24 Feb	Compliance Officer	Follow-up Compliance Support Mission and Implementation of PSM
Comoros	7-9 Mar	Compliance Officer	Follow-up Compliance Support Mission
Thailand	26-28 Jul	Compliance Coordinator	Follow-up Compliance Support Mission

Kenya	22-26 Aug	Compliance Coordinator	Follow-up Compliance Support Mission
Pakistan	26-28 Sept	Compliance Coordinator	Compliance Support Mission
South Africa	27 Sept-1 Oct	Compliance Officer	Implementation of PSM and e-PSM application training
Thailand	11-15 Dec	Compliance Officer	Follow-up implementation of PSM and e-PSM application training

4.5.3 Management Strategy Evaluation

42. The IOTC Scientific Committee and its Working Party on Methods (WPM) has been tasked with undertaking the process of a management strategy evaluation to develop management procedures for discussion at the Technical Committee on Management Procedures. In support, the IOTC Secretariat has undertaken multiple capacity building exercises at times in partnership with WWF under the umbrella of the FAO Common Oceans ABNJ Tuna Project, to reinforce the capacity of coastal CPC's to participate in the process.

4.6 IOTC publications and information products

4.6.1 IOTC Website

43. The new IOTC website continues to be the major means for communicating information to IOTCs a broad range of stakeholders. The website remains in its current form and location as the Secretariat has not received any instructions from FAO to move it into the corporate FAO website framework.

5. SUPPORT TO COMPLIANCE ACTIVITIES

5.1 Role of the IOTC Secretariat in technical matters

44. The IOTC Secretariat currently provides the following services in the compliance processes of the Commission:
- Maintain all vessels' lists (Active, Authorised and IUU);
 - Maintain Bigeye Tuna Statistical Document Programme (validation information and tables of import/re-export of statistics);
 - Maintain the e-PSM application
 - Advice and training in the implementation of CMMs (Compliance Support Mission);
 - Advice and training in the implementation of PSM (Port State Measures training)
 - Training on the use of a specialised application for implementing port State Measures (e-PSM application);
 - Preparation and reporting on the status of compliance by CPCs;
 - Drafting and production of the Workshops, Working Party and Compliance Committee reports;
 - Coordinate the work of ad-hoc Working Groups (High-seas boarding and inspection and vessel monitoring system);
 - Preparation of meeting documents for the Working Party and the Compliance Committee;
 - Assist in the preparation of meeting documents for the Commission (compliance related activities).

5.2 Compliance Section Staffing

45. The IOTC Secretariat's compliance support services area was staffed by three (3) positions during 2017. These are as follows:
- Fishery Officer (Compliance Coordinator) (P4)
 - Fishery Officer (Compliance Officer) (P3)
 - General Clerk (Compliance Assistant) (G6) – this post was vacant for the last six months of the year
46. The *IOTC Record of Authorised Vessels* has increased significantly and often requires additional attention from the IOTC Secretariat to ensure its accuracy. The processing and quality assurance of IOTC data sets continues to require substantial resources from the IOTC Secretariat, and often involves repeat requests for clarification of data issues between IOTC Secretariat staff and data liaison officers in national fisheries organisations. Just over 13,600 records were processed during 2017; this includes the addition, deletion and updating the history of vessels in the record. The number of records processed during 2017 represents a more than two-fold increase over the number of records processed in the previous year. Collaboration with the Administrator of the Consolidated List of Authorised Vessels (CLAV) continues to result in the identification of additional errors and subsequent corrections of a number of entries into the database.

47. The maintenance of the *IOTC Record of Active Vessels* also requires the active follow-up by staff of the IOTC Secretariat to ensure timely data submissions by CPCs. Discrepancies and inconsistencies in the datasets are the main issues that require staff to resolve, through contacts with the various parties involved.
48. The *Regional Observer Programme (ROP)* to monitor transshipments at sea for large-scale tuna longline vessels is approaching its tenth year of operation, and support by staff of the IOTC Secretariat to ensure its seamless functioning is now entrenched in the daily activities of the Secretariat. The level of activities under this Programme during 2017 remained on par with that of 2016. A new tender for the at-sea Transshipment Programme was launched by the FAO, on behalf of the IOTC, in the last quarter of 2017.

5.3 Capacity building activities: Compliance Support Missions

49. *Follow-up Compliance Support Missions (CSM)* are intended to bring the work of the Commission and the Compliance Committee closer to the CPCs. The follow-up CSM are a combination of capacity building and planning exercise to engage in activities that would support the issues that were identified during the review of country based Compliance Report at the last session of the Compliance Committee. The follow-up CSMs are carried by the IOTC Secretariat staff over a period of three days, to an audience composed of national officers in offices involved in the implementation of IOTC Resolutions. The outcome is a Compliance Action Plan and an agreed timeline with the CPC on addressing outstanding compliance issues. During 2017, six follow-up CSMs were conducted in the following countries: Comoros, Kenya, Mauritius, Mozambique, Tanzania and Thailand. The first CSM to Pakistan also took place in 2017. Further follow-up missions are planned for the 2018/19 intersessional period.

5.4 Capacity building activities: Training in Port State Measures Resolution

50. The other component is specific to the implementation of Resolution 10/11 *on Port State Measures to prevent, deter and eliminate illegal, unreported and unregulated (IUU) fishing*. This training is primarily intended for field personnel and their supervisors, as it focuses more in the operational aspects of the Resolution on Port State Measures. It implements at national level, a training course for government officials on IOTC Port State Measures for CPCs in the region. To support this activity, one training package has been developed relating to the implementation of Port State Measures to prevent, deter and eliminate illegal, unreported and unregulated (IUU) fishing activities.
51. With the support of the World Bank, the IOTC Secretariat has developed an electronic Port State Measures application (e-PSM), accessible through the IOTC web site, to support the implementation of IOTC Resolutions on PSM. The e-PSM application became functional in May 2016. As required by the paragraph 3 of the Resolution 16/11, the IOTC Secretariat has provided training to over 400 individuals from 13 IOTC member States (Port States and industry), to use the application. As of 31st December 2017, 2277 vessel files have been created following call in port. The application is being used by 37 flag States, 13 IOTC port States and 1,255 vessels' representatives (fishing agents/vessel master).

5.5 Funding of Compliance related activities

52. Funding for these activities are being provided through cooperation with several initiatives, following presentation of the capacity building initiatives to potential financing agencies. Table 4 summarises all the missions relating to compliance.
53. The IOTC Secretariat has:
- a) signed a Grant Agreement with the European Union for the provision of €150.000 to finance the Compliance Support Missions and other activities in 2017.
 - b) received financing from the following agencies/projects:
 - World Wide Fund (WWF) provided support to update the content and print the CMMs training package (2 manuals and 31 implementation sheets), World Bank Project (SWIOFISH) through the Indian Ocean Commission with financing support to undertake, in qualifying countries, Compliance Support Missions, PSM trainings, develop a monitoring and reporting information system, e-MARIS, legal assistance to transpose IOTC CMMs into national legislation in accordance to Article X of the IOTC Agreement.
 - The FAO Project “Sustainable management of tuna fisheries and biodiversity conservation in the Areas Beyond National Jurisdiction (ABNJ)”, supported by the Global Environmental Facility (GEF), (assisted with the further development of CLAV and various other capacity building activities including national training on the e-PSM application).

6. COMMUNICATIONS AND PUBLIC INFORMATION

6.1 Documents (papers and reports)

54. The IOTC Secretariat continues with the publications of all reports of the Commission and its subsidiary bodies (Working Parties and Committees). All reports are currently published in electronic format only, following the decision by the Commission at its 17th Session to go paperless.

7. SUPPORT TO MEETINGS

7.1 Logistic support in the facilitation of meetings

55. The IOTC Secretariat continues to work with several translators for the provision of translation services, and preparation of documents in both languages of the Commission for the Sessions of the Commission, and all Committees. In order to reduce staff costs, the translation of documents to the official languages of the Commission (English and French) has been outsourced as necessary. Unless there is a substantial increase in the workload relating to translation, the current approach is an effective way of proceeding under the current budget limits.

7.2 Preparation of reports

56. The IOTC Secretariat staff provided the necessary support to all IOTC meetings in 2017 related to the development and dissemination of meeting reports. In 2017, all IOTC meeting reports were developed, finalised and disseminated efficiently and in a short timeframe to ensure CPCs had access to the most recent meeting findings and recommendations soon after the completion of a meeting (usually within one week).

8. INFORMATION TECHNOLOGY

57. The provision of computer infrastructure, including maintenance of the network and servers, as well as Internet support was providing by a consultant paid under the provisions of Headquarters Agreement with the Republic of Seychelles. These services were also extended to general meeting support and IOTC website maintenance. At the end of 2017, the IT Expert resigned and a replacement is expected to commence in May 2018. While website security and backup services have not been affected, some delays in website postings and maintenance have been experienced.

9. ADMINISTRATION

58. The personnel and financial administration of the IOTC is managed through the FAO ERP system called the GRMS. This includes the administration of extra-budgetary funds, travel arrangements, general logistical support to the activities of the technical sections.

10. OTHER ACTIVITIES

10.1 Contacts with other organisations

59. The IOTC Secretariat routinely maintains contacts with other organisations in the region with the purpose of coordinating scientific activities to the extent possible. This is essential to avoid duplication of efforts with similar organisations (e.g. other tuna RFMOs – CCSBT, IATTC, ICCAT and WCPFC).
60. **Inter-Governmental Organisations (IGOs):** The IOTC Secretariat maintains close links with the Indian Ocean Commission (IOC) primarily through the discussions of possible future coordination and cooperation in fisheries projects involving tuna fisheries. The IOTC Secretariat is currently involved in a number of joint activities with the IOC Project Integrated Regional Fisheries Strategy (IRFS) also known as SmartFish, mostly on Compliance issues, but it is expected that there will be collaboration on data-collection activities between the IRFS and IOTC.
61. **Non-Governmental Organisations (NGOs):** The IOTC Secretariat also maintains close links with a number of NGOs, such as INFOFISH, WWF, IPNLF, PEW and ISSF.
62. In 2017, the Secretariat worked with the Overseas Fishery Cooperation Foundation to extend the current MOU with IOTC for another year, and the FAO ANBJ Tuna Project to work on the yellowfin and bigeye MSE.

11. RECOMMENDATION/S

63. That the SCAF NOTE paper IOTC–2018–SCAF15–03 which provides the SCAF with an update on the activities of the IOTC Secretariat in support of the Commission in 2017.

APPENDIX 1

2017: LIST OF CHAIRS, VICE-CHAIRS AND THEIR RESPECTIVE TERMS FOR ALL IOTC BODIES

Group	Chair / Vice-Chair	Chair	CPC/Affiliation	1 st Term commencement date	Term expiration date (End date is until replacement is elected)	Comments
Commission	Chair	Dr Ahmed Mohammed Al-Mazroui	Oman	01-May-15	End of Com. in 2019	2 nd term
	Vice-Chairs	Ms Jung Re Kim	Rep. of Korea	26-May-17	End of Com. in 2019	1 st term
		Mr Saut Tampubolon	Indonesia	01-May-15	End of Com in 2019	2 nd term
CoC	Chair	Mr Hosea Gonza Mbilinvi	Tanzania	05-May-17	End of CoC in 2019	1 st term
	Vice-Chair	Mr Anne-France Mattlet	EU, France	05-May-17	End of CoC in 2019	1 st term
SCAF	Chair	Dr Benjamin Tabios	Philippines	31-May-14	End of SCAF in 2018	2 nd term
	Vice-Chair	Mr Hussain Sinan	Maldives	31-May-14	End of SCAF in 2018	1 st term
TCAC	Chair	Mr Don MacKay	Independent consultant	21-Feb-16	End of TCAC in 2018	2 nd term
	Vice-Chair	n.a.	n.a.	n.a.	n.a.	n.a.
SC	Chair	Dr Hilario Murua	EU,Spain	28-Nov-15	End of SC in 2019	2 nd term
	Vice-Chair	Dr Shiham Adam	Maldives	28-Nov-15	End of SC in 2019	2 nd term
WPB	Chair	Dr Rui Coelho	EU, Portugal	14-Sept-17	End of WPB in 2019	1 st term
	Vice-Chair	Dr Evgeny Romanov	EU,France	05-Sep-15	End of WPB in 2019	2 nd term
WPTmT	Chair	Dr Jiangfeng Zhu	China	21-Jul-16	End of WPTmT in 2018	1 st term
	Vice-Chair	Dr Toshihide Kitakado	Japan	21-Jul-16	End of WPTmT in 2018	1 st term
WPTT	Chair	Dr Shiham Adam	Maldives	19-Nov-14	End of WPTT in 2018	2 nd term
	Vice-Chair	Dr Gorka Merino	EU,Spain	19-Nov-14	End of WPTT in 2018	2 nd term
WPEB	Chair	Dr Sylvain Bonhommeau	EU,France	8-Sept-17	End of WPEB in 2019	1 st term
	Vice-Chair	Dr Reza Sharifar; Dr Ross Wanless	I.R. Iran / BirdLife	11-Sept-15	End of WPEB in 2019	2 nd term
WPNT	Chair	Dr Farhad Kaymaram	I.R. Iran	29-May-15	End of WPNT in 2019	2 nd term
	Vice-Chair	Dr Mathias Igulu	Tanzania	29-May-15	End of WPNT in 2019	2 nd term
WPDCS	Chair	Mr Stephen Ndegwa	Kenya	28-Nov-17	End of WPDCS in 2019	1 st term
	Vice-Chair	Dr Julien Barde	EU,France	28-Nov-17	End of WPDCS in 2019	1 st term
WPM	Chair	Dr Toshihide Kitakado	Japan	21-Oct-15	End of WPM in 2019	2 nd term
	Vice-Chair	Dr Iago Mosqueira	EU	21-Oct-15	End of WPM in 2019	2 nd term
WPICMM	Chair	Mr Roy Clarisse	Seychelles	7-Mar-18	End of WPICMM in 2019	1 st term
	Vice-Chair	Mr Benedict Kiilu	Kenya	7-Mar-18	End of WPICMM in 2019	1 st term

APPENDIX 2

2017: LIST OF PAPERS WITH PARTICIPATION FROM IOTC SECRETARIAT STAFF

Document number	Title
<i>14th Session of the Compliance Committee</i>	
IOTC–2017–CoC14–01a	Draft Agenda for the Fourteenth Session of the Compliance Committee
IOTC–2017–CoC14–01b	Draft Annotated Agenda for the Fourteenth Session of the Compliance Committee
IOTC–2017–CoC14–02	Draft list of documents for the Fourteenth Session of the Compliance Committee
IOTC–2017–CoC14–03	Summary report on the level of compliance
IOTC–2017–CoC14–04a	Report on Transshipment Resolution 14-06 – Secretariat’s Report
IOTC–2017–CoC14–04b	A Summary of the IOTC Regional Observer Programme During 2016 – Contractor’s Report
IOTC–2017–CoC14–05_Rev2	Report on the implementation of a limitation of fishing capacity of Contracting Parties and Cooperating non-Contracting Parties.
IOTC–2017–CoC14–05 Add1	Collection of fleet development plans
IOTC–2017–CoC14–05 Add2	Updated Fleet Development Plan of China
IOTC–2017–CoC14–06	Performance review update (Resolution 16/03 – on the performance review follow-up)
IOTC–2017–CoC14–07	The IOTC Provisional IUU Vessels List
IOTC–2017–CoC14–08a_Rev1	Complementary elements for discussion under item 7 of the agenda for the Compliance Committee
IOTC–2017–CoC14–08b	Summary report on possible infractions observed under the Regional Observer Programme
IOTC–2017–CoC14–08b Add1	Identification of repeated possible infringements under the Regional Observer Programme
IOTC–2017–CoC14–08b Add2	Response to 2016 possible infractions from Seychelles under the regional observer programme
IOTC–2017–CoC14–08c	Reporting of vessels in transit through UK (OT) waters for potential breach of IOTC Conservation and Management Measures.
IOTC–2017–CoC14–09_Rev1	Summary report on Compliance Support Activities
IOTC–2017–CoC14–10_Rev1	Summary of Compliance with the drifting FADs Management Plans
IOTC–2017–CoC14–10 Add1	Collection of drifting Fish Aggregating Devices Management Plans
IOTC–2017–CoC14–11	Implementation of Recommendations relevant to the Compliance Committee
<i>14th Session of the Standing Committee on Administration and Finance</i>	
IOTC–2017–SCAF14–03	Report of the IOTC Secretariat: 2016
IOTC–2017–SCAF14–04	Financial Statement: Fiscal Year 2016
IOTC–2017–SCAF14–05	Provisional Program of work and budget for 2018 (and Indicative Budget for 2019)
IOTC–2017–SCAF14–06	Update on Progress Regarding Resolution 16/03 – on the Second Performance Review Follow-Up
IOTC–2017–SCAF14–07	Contributions Outstanding: 2016
IOTC–2017–SCAF14–08	IOTC Meeting Participation Fund: 2017 expected and 2018 proposal
IOTC–2017–SCAF14–09	Financial Statement and progress: 2017
<i>21st Session of the Commission</i>	
IOTC–2017–S21–04	Implementation of decisions of the Commission in 2016
IOTC–2017–S21–05	On the migration of the IOTC website
IOTC–2017–S21–06	Applications for membership in accordance with article IV.2 of the Agreement, and for acquisition of the Cooperating Non-Contracting Party status
IOTC–2017–S21–07	Programme of work and budget of the Commission for the ensuing financial period
IOTC–2017–S21–08	Update on progress regarding Resolution 16/03 – on the performance review follow-up
IOTC–2017–S21–09	Transfer of Capacity between CPCs
IOTC–2017–S21–10	A Pilot Project for the IOTC Regional Observer Scheme
IOTC–2017–S21–11	Conservation and Management Measures requiring action by the Commission in 2017
IOTC–2017–S21–12	Review of objections received under Article IX.5 of the IOTC Agreement
IOTC–2017–S21–13	Principles for an amended procedure for the selection and appointment of the Executive Secretary of the IOTC (Australia)

Document number	Title
6th Session of the IOTC Working Party on Neritic Tunas	
IOTC–2017–WPNT07–03	Outcomes of the 19th Session of the Scientific Committee (IOTC Secretariat)
IOTC–2017–WPNT07–04	Outcomes of the 21st Session of the Commission (IOTC Secretariat)
IOTC–2017–WPNT07–05	Review of current Conservation and Management Measures relating to neritic tuna species (IOTC Secretariat)
IOTC–2017–WPNT07–06	Progress made on the recommendations and requests of WPNT06 and SC19 (IOTC Secretariat)
IOTC–2017–WPNT07–07	Review of the statistical data available for the neritic tuna species (IOTC Secretariat)
IOTC–2017–WPNT07–08	Revision of the WPNT Program of Work (2018–2022) (IOTC Secretariat)
IOTC–2017–WPNT07–14	A hierarchical Bayesian approach to estimate growth parameters from length data of narrow spread (S. Zhou, S. Martin, D. Fu)
IOTC–2017–WPNT07–15	Assessment of Indian Ocean longtail tuna (<i>Thunnus tonggol</i>) using data poor catch-based methods (IOTC Secretariat)
IOTC–2017–WPNT07–17	Assessment of Indian Ocean narrow-barred Spanish mackerel (<i>Scomberomorus commerson</i>) using data poor catch-based methods (IOTC Secretariat)
Session of the IOTC Working Party on Temperate Tunas	
No meeting in 2017	
15th Session of the IOTC Working Party on Billfish	
IOTC–2017–WPB15–03	Outcomes of the 19 th Session of the Scientific Committee (IOTC Secretariat)
IOTC–2017–WPB15–04	Outcomes of the 21 th Session of the Commission (IOTC Secretariat)
IOTC–2017–WPB15–05	Review of Conservation and Management Measures relevant to billfish (IOTC Secretariat)
IOTC–2017–WPB15–06	Progress made on the recommendations and requests of WPB14 and SC19 (IOTC Secretariat)
IOTC–2017–WPB15–07_Rev1	Review of the statistical data and fishery trends for billfish species (IOTC Secretariat)
IOTC–2017–WPB15–08	Revision of the WPB Program of Work (2018–2022) (IOTC Secretariat)
IOTC–2017–WPB15–20_Rev1	An age-, sex- and spatially-structured stock assessment of the Indian Ocean Swordfish fishery 1950-2015, using stock synthesis (IOTC Secretariat)
13th Session of the Working Party on Ecosystems and Bycatch	
IOTC–2017–WPEB13–04	Outcomes of the 21 st Session of the Commission (IOTC Secretariat)
IOTC–2017–WPEB13–05	Review of Conservation and Management Measures relevant to ecosystems and bycatch (IOTC Secretariat)
IOTC–2017–WPEB13–06	Progress made on the recommendations and requests of WPEB12 and SC19 (IOTC Secretariat)
IOTC–2017–WPEB13–07	Review of the statistical data and fishery trends for ecosystems and bycatch species (IOTC Secretariat)
IOTC–2017–WPEB13–08	Update on the implementation of the IOTC Regional Observer Scheme (IOTC Secretariat)
IOTC–2017–WPEB13–09	Status of development and implementation of National Plans of Action for seabirds and sharks, and implementation of the FAO guidelines to reduce marine turtle mortality in fishing operations (IOTC Secretariat)
IOTC–2017–WPEB13–10	Revision of the WPEB Program of Work (2018–2022) (IOTC Secretariat & Chairperson)
IOTC–2017–WPEB13–23	Approaches to the reconstruction of catches of Indian Ocean blue shark (J.Rice, S.Martin, F.Fiorellato)
19th Session of the Working Party on Tropical Tunas	
IOTC–2017–WPTT19–03	Outcomes of the 19th Session of the Scientific Committee (IOTC Secretariat)
IOTC–2017–WPTT19–04	Outcomes of the 21th Session of the Commission (IOTC Secretariat)
IOTC–2017–WPTT19–05	Review of Conservation and Management Measures relevant to tropical tunas (IOTC Secretariat)
IOTC–2017–WPTT19–06	Progress made on the recommendations of WPTT18 (IOTC Secretariat)
IOTC–2017–WPTT19–07	Review of the statistical data and fishery trends for tropical tunas (IOTC Secretariat)
IOTC–2017–WPTT19–08	Revision of the WPTT Program of Work (2018–2022) (IOTC Secretariat)
IOTC–2017–WPTT19–37	CPUE standardizations of the Seychelles Indian Ocean longline fleet 2004-2015 (Fu D, Lucas J, Assan C, Govinden R)

Document number	Title
IOTC–2017–WPTT19–47	Indian Ocean Skipjack tuna stock assessment 1950-2016 (stock synthesis) IOTC Secretariat).
8th Working Party on Methods	
IOTC–2017–WPM08–03	Outcomes of the 19 th Session of the Scientific Committee (IOTC Secretariat)
IOTC–2017–WPM08–04	Outcomes of the 21 st Session of the Commission (IOTC Secretariat)
IOTC–2017–WPM08–05	Review of Conservation and Management Measures relating to methods (IOTC Secretariat)
IOTC–2017–WPM08–06	Progress made on the recommendations and requests of WPM07 and SC19 (IOTC Secretariat)
IOTC–2017–WPM08–07	Revision of the WPM Program of Work (2018–2022) (IOTC Secretariat & Chairpersons)
13th Working Party on Data Collection and Statistics	
IOTC–2017–WPDCS13–03	Outcomes of the 19 th Session of the Scientific Committee (IOTC Secretariat)
IOTC–2017–WPDCS13–04	Outcomes of the 21 th Session of the Commission (IOTC Secretariat)
IOTC–2017–WPDCS13–05	Review of current Conservation and Management Measures relating to the WPDCS (IOTC Secretariat)
IOTC–2017–WPDCS13–06	Progress on the recommendations of WPDCS12 (IOTC Secretariat)
IOTC–2017–WPDCS13–07	Report on IOTC Data Collection and Statistics (IOTC Secretariat)
IOTC–2017–WPDCS13–08	IOTC capacity building activities in support of developing coastal IOTC CPCs (IOTC Secretariat)
IOTC–2017–WPDCS13–09	Revision of the WPDCS Program of Work (2018–2022) (IOTC Secretariat, Chairperson & Vice-Chairperson)
IOTC–2017–WPDCS13–25_Rev1	Data collection and management tools to support the Regional Observer Scheme pilot project (Anello E, Fiorellato F)
IOTC–2017–WPDCS13–35_Rev1	Progress report of the Consolidated List of Authorized Vessels at October 2017 (Jara-Senn F, Fiorellato F)
IOTC–2017–WPDCS13–36_Rev1	Evaluation of the Kenya catch assessment survey (Ndegwa S, Geehan J)
IOTC–2017–WPDCS13–37	Estimation of EEZ catches in the IOTC database: report on the availability and quality of catch estimates (IOTC Secretariat)
IOTC–2017–WPDCS13–38_Rev2	Standardization of metadata, data formats, access protocols and statistical visualization of SS3 stock assessment outputs (Nieblas A-E, Bonhommeau S, Imzilen T, Fu D, Fiorellato F, Barde J)
20th Session of the Scientific Committee	
IOTC–2017–SC20–03	Outcomes of the 21 st Session of the Commission (IOTC Secretariat)
IOTC–2017–SC20–04	Previous decisions of the Commission (IOTC Secretariat)
IOTC–2017–SC20–05 Rev_1	Report of the Secretariat – Activities in support of the IOTC science process in 2017 (IOTC Secretariat)
IOTC–2017–SC20–06 Rev_1	Status of development and implementation of national plans of action for seabirds and sharks, and implementation of the FAO guidelines to reduce marine turtle mortality in fishing operations (IOTC Secretariat)
IOTC–2017–SC20–07	Update on the implementation of the regional observer scheme (IOTC Secretariat)
IOTC–2017–SC20–08	Update on progress regarding Resolution 09/01 – on the performance review follow-up (IOTC Secretariat)
IOTC–2017–SC20–09 Rev_1	Revision of the program of work (2018–2022) for the IOTC science process (IOTC Secretariat)
IOTC–2017–SC20–10 Rev_1	Proposed schedule of Working Party and Scientific Committee meetings for 2018 and 2019 (IOTC Secretariat)
IOTC–2017–SC20–11	Update on the conditioning of an operating model for the Indian Ocean swordfish (I. Mosqueira, D. Rosa, D. Fu, R. Coelho)
IOTC–2017–SC20–12 Rev_1	Calculation of the skipjack catch limit for the period 2018-2020 using the HCR adopted in Resolution 16/02 (H Murua et al.)
IOTC–2017–SC20–13	Progress on SC19 recommendations (IOTC Secretariat)
IOTC–2017–SC20–14	Scientific advice to support the implementation of IOTC Resolution 16/06