REPORT OF THE IOTC SECRETARIAT ON THE YEAR 2020

Prepared by: IOTC Secretariat

PURPOSE OF THIS DOCUMENT

To inform the Standing Committee on Administration and Finance (SCAF) about the activities undertaken by the IOTC Secretariat in 2020. A list of acronyms is provided in Appendix 3.

TABLE OF CONTENTS

1. MEMBERSHIP OF THE IOTC IN 2020

1. **31 Contracting Parties**: Australia, Bangladesh, China, Comoros, Eritrea, European Union, France (OT), 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 and Yemen.

2. **2 Cooperating Non-Contracting Parties (CNCP)**: Liberia and Senegal.

2. MISSION AND STAFFING OF THE IOTC SECRETARIAT

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.*"

3. 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.

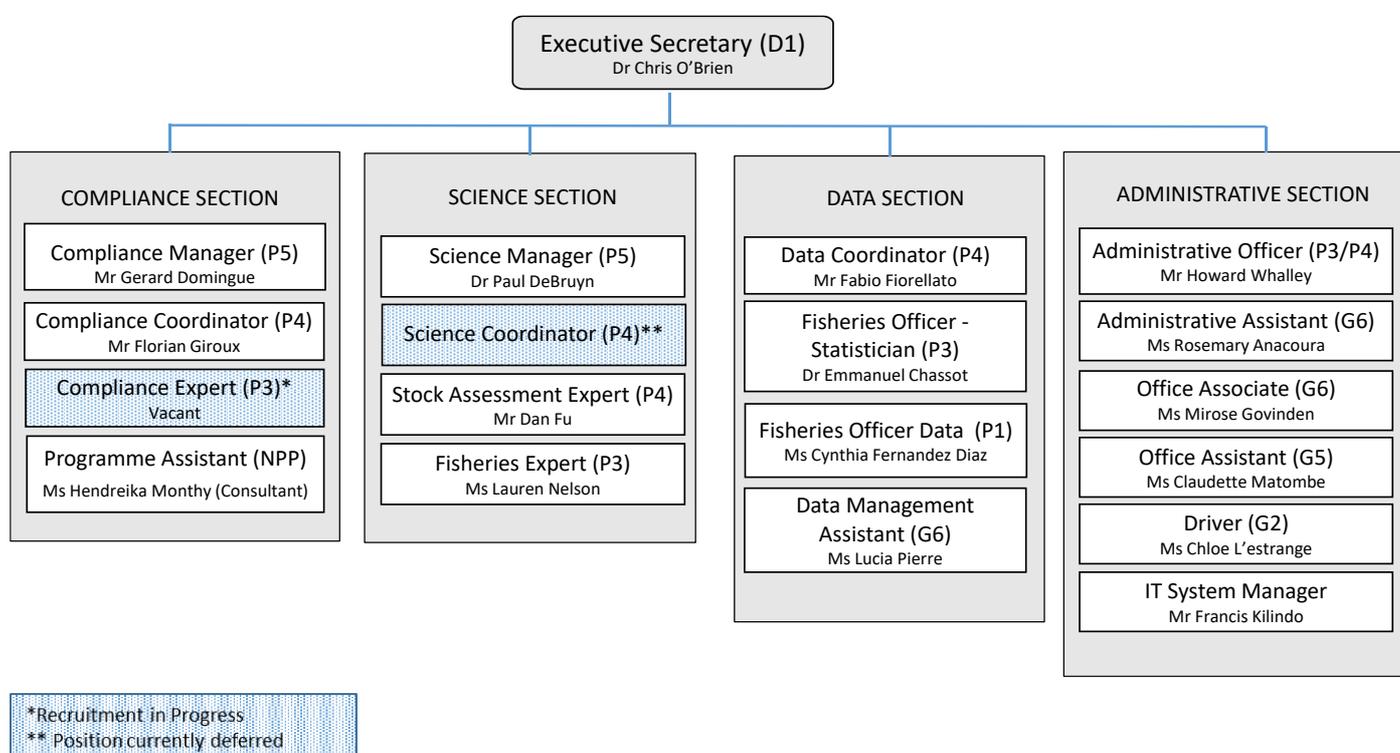4. The structure of the IOTC Secretariat in 2020 is provided in Figure 1.

*Recruitment in Progress
** Position currently deferred

Figure 1: IOTC Staff Structure 2020

Professional Staff – Recruitment activities

5. At the start of 2020, the P5 Compliance Manager, the P3 Fisheries Expert (Science Section) and the P3 Fisheries Officer (Data Section) positions were all vacant. The recruitment of the P4 Science Coordinator position was deferred by the Commission in 2020.

6. An internationally competitive recruitment process for the P5 Compliance Manager was completed in May 2020 with the appointment of Mr Gerard Domingue (Seychelles). As a result of this appointment, the P4 Compliance Coordinator post became vacant. After another internationally competitive recruitment process was completed in December 2020, Mr Florian Giroux (France) was appointed as the Compliance Coordinator. As a result of this appointment, the P3 Compliance Officer post became vacant in December (and at the time of this report, the recruitment was almost completed).

7. Ms Hendricka Monthly (Seychelles), a local consultant, was recruited in June 2020 to assist with data inputting duties in the Compliance Section

8. The recruitment processes for the P3 Fisheries Officer (Science) and the P3 Statistician (Data) were completed in the first half of 2020 with the recruitment of Ms Lauren Nelson (United Kingdom) and Mr Emmanuel Chassot (France) respectively.

General Service Staff – Recruitment activities

9. Ms Claudette Matombe (Seychelles) was recruited as the G5 Office Assistance in January 2020.

3. THE EFFECTS OF THE COVID-19 PANDEMIC ON THE WORK OF THE SECRETARIAT

10. Seychelles was relatively unaffected by the pandemic until December 2020 and although, as a precautionary step, Secretariat staff worked from their homes on various occasions, the work of the Secretariat proceeded mostly as normal. In-person meetings were not held after February; however, the TCMP was the only meeting to be cancelled. Except for the CoC and SCAF, which were held by email, all other meetings were held by videoconference. In-country capacity development activities requiring international travel also ceased after February, although some capacity development activities for compliance were able to be conducted in Seychelles and some support activities related to improving data were conducted virtually.

4. FUNCTIONAL AREAS OF WORK

11. To facilitate accountability, the activities of the IOTC Secretariat in 2020 have been grouped into six major functional areas which reflect the '*Program of work and budget*' approved by the Commission at its 24th Session in 2020, as follows:

    1. **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.
    2. **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.
    3. **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.
    4. **Support to meetings**: Logistic support in the facilitation of meetings, preparation of reports and maintenance of the meetings calendar
    5. **Information Technology**: Provide basic computer infrastructure, including maintenance of the network and servers, as well as Internet support.
    6. **Administration**: Financial administration in conjunction with FAO, administration of extra-budgetary funds, travel arrangements, general logistical support to the activities of the technical sections.

FUNCTIONAL AREA 3.1 SUPPORT TO SCIENTIFIC ACTIVITIES IN 2020

12. The IOTC Secretariat's scientific support services area was staffed as follows:
    - Science Manager (P5)
    - Stock Assessment Expert (P4)
    - Data Coordinator (P4)
    - Data Management Assistant (G6)
    - Fisheries Officer – Data (P1), working across Science and Compliance
    - Fishery Officer-Statistician (P3) – from May 2020
    - Fishery Officer-Science (P3) – from June 2020

The role of the IOTC Secretariat in scientific matters

13. The IOTC Secretariat currently provides the following services to 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 range of scientific activities, including research projects
- 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
- IOTC scientific meetings – Working Parties & Scientific Committee.

14. In 2020, seven Working Parties and one Scientific Committee meetings were organised and facilitated by the IOTC Secretariat (Table 1). The current Chairs and Vice-Chairs for each Committee and Working Party are listed in Appendix 1.

15. Appendix 2 lists the documents produced by the IOTC Secretariat in support of the scientific meetings held in 2020. 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.

Science activities

- IOTC Species ID guides: Work is ongoing to translate, typeset, format and print the IOTC Species ID guides into the priority languages identified by the SC. The current set of identification guides available is provided here: http://www.iotc.org/science/species-identification-cards.

- Cetacean by-catch: The IOTC Secretariat participated in a pre-meeting workshop of the WPEB to discuss cetacean by-catch issues in the Indian Ocean. The meeting was also facilitated by the IWC who provided expert consultation and input to the workshop.

- Bigeye thresher shark tagging: A consortium has been established to work jointly on a tagging project to evaluate the post-release mortality of bigeye thresher sharks and the effectiveness of the no retention measure in Resolution 12/09. Scientists are working with observers to deploy tags on sharks released according to routine practices from the fleets of Japan, China, Taiwan,China, EU,Portugal, EU,France and South Africa. Fifty-four pop-up archival satellite tags were purchased and are in the process of being deployed. An update was due to be provided in IOTC-2020-WPEB16-INF01 but this was withdrawn at the request of one of the collaborators. Instead a verbal update was provided and reflected in IOTC-2020-WPEB16-R.

- Skipjack tuna and yellowfin tuna stock assessments: The IOTC stock assessment scientist carried out a stock assessment of skipjack tuna (1950-2019) using stock synthesis III. The IOTC Stock assessment scientist also provided input into the updated yellowfin tuna assessment carried out using SS3 although he was not the principal modeller in this case.

- Swordfish stock assessment: The IOTC stock assessment scientist carried out a stock assessment of Swordfish (1950-2019) using stock synthesis III.

- Yellowfin tuna and bigeye tuna MSE: A Stock Assessment consultant (Dale Kolody) funded by a contribution from Australia conducted MSE for yellowfin and bigeye tuna. This voluntary contribution by Australia has provided ongoing funding for this work through to 2021.

- Skipjack tuna MSE: A Stock Assessment consultant (Charles Edwards) funded by the IOTC regular budget, conducted MSE for skipjack tuna. The consultant is working to update the skipjack harvest control rule and develop a fully specified MP based on the updated stock assessment for the species.

- Albacore MSE: A Stock Assessment consultant (Iago Mosqueira) funded by the IOTC regular budget, conducted MSE for albacore tuna. The consultant is working to update OM based on the updated stock assessment for the species.

- Swordfish MSE: Ms Daniela Rosa, partially funded by an EU grant administered by the IOTC Secretariat as well as funding from the IOTC regular budget continued the work on swordfish MSE.

- Population Structure of IOTC species in the Indian Ocean: In 2020 the stock structure project was completed, and the results presented to various IOTC working parties. The work has been conducted by a consortium led by CSIRO

and managed by the IOTC Secretariat.

- Biological Sampling Project: In 2020 a Contract was signed with a Consortium led by AZTI Tecnalia for the development and implementation of a sampling scheme to support the collection of biological samples and conduct analysis on these samples to provide improved estimates of age, growth and reproduction of tropical tunas, swordfish, and blue sharks for the Indian Ocean.

16. Other Scientific work funded by EU Grants: In addition to several of the components described above, the IOTC secretariat managed several additional scientific initiatives funded by EU grants. These included –

- Spatially Explicit Operating Models and Biological Parameters (using tagging data) – Presented to the WPTT(AS) - IOTC-2020-WPTT22(AS)-19

- Review of data collection and processing systems for size data from longline fleets in the Indian Ocean – Ongoing

- Implementation for the ROS as well as E-Monitoring (See document IOTC-2020-SC23-07).

- The results of the scoping study for the application of CKMR for a shark species in the Indian Ocean, led by AZTI Tecnalia was presented to the WPEB (IOTC-2020-WPEB16-13).

- The IOTC Secretariat initiated a project with two key objectives, namely to: (i) identify where and by which gears mobulid rays are most likely to be caught in IOTC fisheries, and (ii) develop awareness materials on best practices for the safe handling and release of mobulid rays. This was conducted through an external consultancy and presented to the WPEB (IOTC-2020-WPEB16-19).

Stock assessment consultants

- Dr. Shijie Zhou: Data poor methods and analysis of neritic tuna datasets.
- Dr Dale Kolody: yellowfin tuna and bigeye tuna management strategy evaluation (MSE) — funded by Australia.
- Dr Charles Edwards: skipjack tuna management strategy evaluation (MSE) — funded by IOTC regular budget.
- Dr. Simon Hoyle: funded by the IOTC regular budget, provided the results of the previously held workshop on joint CPUE analysis, to address contrary signals of abundance noted for the major tropical species between Taiwan, China, Japan, and Rep. of Korea. The consultant worked closely with scientists from the three fleets to understand and resolve the inconsistencies between the fleets; five papers on the results of developments in the collaborative CPUE were presented at WPTT22 and WPM11.

Data-related activities

Data-related activities: Capacity building and other initiatives

17. The IOTC Secretariat's data team continued to facilitate or provide direct support to developing coastal states using funds from the IOTC capacity building budget or other collaborating agencies. In particular, the Overseas Fishery Cooperation Foundation of Japan (OFCF) has provided resources and advice for the strengthening of data collection and reporting in more than 20 countries in the region since its inception in 2002. The Secretariat also cooperated with COI-SmartFish, the ABNJ Project, the ISSF, and other initiatives in the coordination and execution of capacity building activities in developing coastal states of the Indian Ocean. In addition, the IOTC Secretariat also works collaboratively with NOAA, CMS, IOSEA, CITES, WWF-Pakistan and WWF-USA on capacity building activities and to support the implementation of the Regional Observer Scheme in developing coastal states.

18. Table 2 provides a summary of the main capacity building activities undertaken in 2020, which can be broadly categorised into the following activities:

a) **Data compliance and support missions**: aimed at facilitating improvements in the validation and reporting of core statistical datasets to the IOTC Secretariat (i.e., nominal catches, catch-and-effort, and size data), assessing current shortcomings concerning the collection and management of fisheries data, and defining – with concerned CPCs – specific *plans of action* to deliver improvements on their levels of reporting.

In 2020, due to the pandemic, there was limited opportunities to provide on-site support to any CPC with respect to this field of activities. Nevertheless, as part of the usual scientific work of the IOTC, remote assistance and support has been provided to all members identified by the Working Parties and Scientific Committee as in need of improving their data reporting to the IOTC.

Data Section participated to two remote meetings organized by the EU (RCG-LP and DCF liaison meeting) and specifically focusing on data reporting issues detected for the EU fleets operating in the Indian Ocean.

Additionally, remote support was provided for the development of the IFAD concept note for the Agriculture and Fisheries Development Programme of the United Republic of Tanzania.

b) **Technical assistance missions**: capacity building in data collection, support for the development of national fisheries databases and statistical systems, or other issues related to fisheries data management.

Activities pertaining to this area were severely limited in 2020 by the pandemic, and mainly involved continuing support to WWF Pakistan for the evaluation of the results of their crew-based data collection programme.

c) **Support for implementation of the Regional Observer Scheme and implementation of the ROS Pilot Project**: capacity building activities cover several components of the ROS pilot project, including continued development and expansion of the IOTC ROS e-tools and feasibility study implementing electronic monitoring systems (EMS) and alternative data collection protocols on small-scale fisheries. Additional details on the activities and outcomes specific to the ROS and its Pilot Project delivered during 2020 are provided below.

Other data initiatives

19. Consolidated List of Authorized Vessels (CLAV): the IOTC Secretariat was originally identified as responsible for the coordination of activities concerning the CLAV, a regularly updated list of all authorized vessels of the five t-RFMOs. Since 2015, the CLAV has been further enhanced using funds from the FAO Common Oceans/ABNJ Tuna Project, with the main objective being to ensure that updates of the CLAV occur in as close-to real time as possible. During 2020, due to the lack of clarity on the funding source to further support the CLAV past the ABNJ Tuna Project end date, several technical issues encountered by the CLAV IT infrastructure could not be properly addressed and have affected the real-time incorporation of updated information in the CLAV database.

20. Electronic Monitoring and Reporting Information System (E-Maris): supports automatic integration of data and information from CPCs into the IOTC Secretariat's databases, and automatic cross-referencing and reports for various obligations relating to compliance and the provision of scientific data. Two IT experts were recruited by COI and commenced their work with the collection of user requirements and preliminary analysis of the final product deployment scenario. The actual development phase started in May 2019 and is currently about to enter the pilot phase with support from selected CPCs.

21. ISSF cannery data analysis: the IOTC Secretariat, as part of an ongoing agreement with ISSF dating back to 2010, has been receiving sales data from ISSF-affiliated canneries that include additional information on catches recorded in the Indian Ocean. During 2020, the data team developed a data cleaning and analysis tool that enables (internal) access to this rich information set to assess its suitability as an additional verification source for regular statistical data submissions. Several research activities are currently focusing on this topic, including the development of a joint IOTC-ICCAT analysis and a dissertation to be presented in 2021 by a MSc student at the University of Seychelles.

22. FAO / FIRMS Global Tuna Atlas: the IOTC, together with the other t-RFMOs, continued its contribution to the Global Tuna Atlas by providing updates on harmonized catch statistics, including georeferenced data, for the development of a global data set of tuna and tuna-like species across all oceans whose dissemination is planned for Q2 2021.

23. Regional Observer Scheme (ROS): A full update on developments, including details on the implementation of the ROS Pilot Project, is provided in paper IOTC-2020-SC23-07. While support to the ROS (including its pilot project) planned by the data team and consultants have had to be put on hold, key areas of progress this year include:

- Continuation of the incorporation of new and historical data in the Regional Observer Database, including the design of new data reporting templates to replace the outdated IOTC ROS "trip reports" and the resumed work on direct integration of *ObServe* data within the ROS regional database in collaboration with scientists from IRD.

- Further training in the electronic data collection and management interface has been carried out on-site in Kenya, as part of the delivery of the ROS training programme, and (remotely) in Sri Lanka.

- Aggregated ROS information (as per Resolution 12/02) and the results of its analysis have been presented during the WPEB16 and made publicly available through the meeting webpage.

- Finalization of the procurement of EMS equipment to be installed onboard the remaining two (out of six) gillnet/longline vessels in Sri Lanka.

- Finalization of a Letter of Agreement with ISSF (April 2020) with the purpose of identifying minimum standards for the design and implementation of EMS in Indian Ocean tuna fisheries, whose preliminary results were presented at the Working Party on Data Collection and Statistics and the SC in 2020.

- Continued support for the delivery of the training programme for national observer schemes, with the service providers preparing for the scheduled rounds of site visits in three of the six identified CPCs.

- Planning of a redesign exercise for the IOTC website section specifically related to the ROS, with the goal of creating a one-stop shop for all ROS related background information and assets (data reporting forms, data collection templates, observer manuals, supporting software etc.).

Table 1. Scientific Meetings held in 2020 and previous years. Numbers in brackets represent numbers for the previous working party meeting

| Meeting | Date and place | External Expert (invited) | No. of participants | | | | | | | | | | No. of documents (and for the previous meeting) |
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Temperate Tunas	Not held in 2020		16	26	–	27	_	29	_		19 23	0	Total : 0 (43) Working papers : 0(38) Information papers : 0 (5)
Technical Committee on Management Procedures	Cancelled								70	76	65		Total: ** (12) Working papers: ** (12) Information papers: 0 (0)
Neritic Tunas	6-8 July, by videoconference	Dr Shijie Zhou	28	35	42	37	31	20	26	18	18	43	Total: 19 (19) Working papers: 16 (19) Information papers: 3 (2)
Ecosystems and Bycatch	7-10 September by videoconference		49	48	32	37	38	34	39	39	41	108	Total: 35 (68) Working papers: 26 (51) Information papers: 9 (17)
Billfish	2-4 September by videoconference		27	23	24	21	23	18	25	18	25	55	Total: 22 (29) Working papers: 20 (28) Information papers: 2 (1)
Methods	14-15 October by videoconference		–	22	–	34	26	29	28	20	37	55	Total: 16 (28) Working papers: 14 (25) Information papers: 2 (3)
Tropical Tunas	19-23 October by videoconference	Dr Michael Schirripa	49	47	46	53	44	44	49	51	68	111	Total: 32 (60) Working papers: 27 (55) Information papers: 5 (5)
Tropical Tunas (data preparation	22-24 June by videoconference											62	
Data Collection & Statistics	30 November-3 December, by videoconference		21	–	23	30	20	32	45	46	41	76	Total: 22 (38) Working papers: 22 (29) Information papers: 0 (9)
Scientific Committee	7-11 December, by videoconference		50	54	75	62	71	65	63	74	43	141	Working papers: 12 (15) Executive Summaries: 26 (26) Information papers: 3 (5)

FUNCTIONAL AREA 3.2 SUPPORT TO COMPLIANCE ACTIVITIES IN 2020

Compliance Section Staffing

24. The IOTC Secretariat's compliance support services area was staffed by two full-time positions during 2020, with assistance provided by another staff member working across both the Compliance and Data Sections. In the second half of the year a local consultant was recruited to assist with data inputting duties in the Compliance Section. These are as follows:

- Compliance Manager (P5)
- Compliance Officer (P3)
- Fisheries Officer - Data (P1), working across both the Compliance and Data Sections
- Consultant – from June 2020

Role of the IOTC Secretariat in technical matters

25. The IOTC Secretariat currently provides the following services in the compliance processes of the Commission:

- Maintain all vessels' lists (Active, Authorised and IUU)
- Maintain the 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 (Catch Documentation Scheme 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 SCAF and Commission (compliance related activities)
- Supervise the implementation of Regional Observer Programme to monitor transhipments at sea, including dissemination of deployment reports to the fleets participating in the Programme.

26. In addition to the above listed core duties, staff of the Compliance Section supervised several projects undertaken by consultants through extra-budgetary funding, in response to work tasked to the IOTC Secretariat by the Commission.

Meetings supported by the Compliance team: the WPICMM and CoC

27. The 3rd Session of the Indian Ocean Tuna Commission's (IOTC) Working Party on Implementation of Conservation and Management Measures (WPICMM) was held in Kenya, from 12 to 14 February 2020. A total of 48 participants (17 Members and five observers) attended the Session. The meeting was preceded by the third meeting of the Catch Documentation Scheme Working Group (CDSWG), from 10 to 11 February 2020. A total of 30 participants (14 Members and one observer) attended the meeting.

28. The 17th Session of the Compliance Committee (CoC) of the Indian Ocean Tuna Commission (IOTC) was held in by correspondence, from 1–2 October 2020. 23 Contracting Parties (Members), 1 Cooperating Non-Contracting Parties, 5 Observers and 1 Invited Expert participated in the meeting.

29. The CDSWG, WPICMM and CoC meetings were facilitated by the Secretariat's Compliance team. Appendix 2 lists the documents produced by the IOTC Secretariat in support of the CDSWG, WPICMM and CoC meetings.

Other meetings

30. Staff members of the Compliance Section also participated in the following meetings in a number of virtual meetings throughout 2020.

Table 2. Missions undertaken by staff from the IOTC Secretariat during 2020 in relation with capacity building activities.

Country	Date	Staff	Description
Science and data			
Kenya	Feb	IOTC Data Coordinator	ROS Pilot Project activities (ROS e-tools): Hands-on training on the adoption of the IOTC ROS electronic tools for data collection, reporting and management during the ROS Pilot Project training in Mombasa.
Tanzania (remote)	June	IOTC Data Coordinator IOTC Compliance Manager	Agriculture and Fisheries Development Programme of the United Republic of Tanzania: Contribute to the refinement of the initial concept note from IFAD, by providing details on data collection and reporting requirements expressed by current IOTC resolutions, and by describing artisanal data collection use cases from other CPCs.
Sri Lanka (remote)	Sep	IOTC Science Manager IOTC Data Coordinator Marine Instruments AZTI-Tecnalia	ROS Pilot Project activities (EMS): Assess the status of implementation of the EMS trial on-board selected small-scale coastal gillnet/longline vessels, for what concerns: a) Finalization of the installation of EMS onboard 6 gillnet / longline vessels selected for the pilot trials. Assessment of current EMS data collection procedures and identification of the technical issues (complete or partial data loss) encountered during the pilot trials.
Compliance			
Tanzania, United Republic	12 – 21 Jan	SWIOFish 2 Project staff – MCS Expert	Follow-up Compliance Support Mission
Mozambique	23 Feb – 12 Mar	SWIOFish 2 Project staff – MCS Expert	Follow-up Compliance Support Mission
Seychelles	13 May	Compliance Manager	On the roles and functions of the IOTC and MCS related IOTC Resolutions – UNODC training for fisheries inspectors and coastguard personnel.
Seychelles	22 Jul	Compliance Officer	
Seychelles	6 Aug	Compliance Officer	
Seychelles	7 – 10 Dec	Compliance Officer	e-PSM and PSM training.

Compliance related activities

31. The IOTC Record of Authorised Vessels 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 under 15,200 records were processed during 2020; this includes the addition, deletion and updating the history of vessels in the record. This represents a decrease of about 9% over the number of records processed in the previous year. New, mandatory reporting requirements has resulted in increased efforts being directed to the processing of additional information.

32. 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. During 2020 a total of 4,353 records of active vessels were processed; representing a decrease of about 5% over the previous year.

These included both vessels reported by flag States and foreign vessels reported by coastal States under licensing agreements.

33. The Regional Observer Programme (ROP) to monitor transhipments at sea for large-scale tuna longline vessels is now in its thirteenth year of operation, and support by staff of the IOTC Secretariat to ensure its seamless functioning is now embedded in the daily activities of the IOTC Secretariat. The level of observer deployments during 2020 was significantly less than in the previous year, due travel restrictions as a result of COVID-19 pandemic. However, the levels of transhipments under this Programme during 2020 was significantly higher, in both numbers and quantity of fish transhipped, than in 2019.

Capacity building activities: Compliance Support Missions

34. **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 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. Due to travel restrictions throughout most of 2020, only two follow-up Compliance Support Mission were conducted in early 2020. Request to some CPCs to engage in virtual CSMs were not successful.

Capacity building activities: Training in Port State Measures

35. This other component is specific to the implementation of Resolution 16/11 *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. Due to travel restrictions throughout most of 2020, only one PSM/e-PSM mission was undertaken locally, in Seychelles.

Funding of Compliance related activities

36. Funding for these activities are being provided through cooperation with several initiatives, following presentation of the capacity building initiatives to potential financing agencies. Table 2 summarises all the missions relating to compliance.

37. The IOTC Secretariat:

a) signed in 2017 a Grant Agreement with the European Union for the provision of €150.000 to finance the Compliance Support Missions, to recruit consultants to undertake activities aimed at assisting Members in the discharge of their responsibilities to the Commission. Activities under this Grant Agreement concluded in early 2020.

b) received financing from the following project:

- 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) and other activities related to flag State obligations in 2020.

FUNCTIONAL AREA 3.3 COMMUNICATIONS AND PUBLIC INFORMATION

38. The IOTC Secretariat continues with the publication of all reports of the Commission and its subsidiary bodies on the IOTC website. All reports are published in electronic format only following the decision by the Commission at its 17th Session to go paperless.

FUNCTIONAL AREA 3.4 SUPPORT TO MEETINGS

Logistic support in the facilitation of meetings

39. The IOTC Secretariat supported 14 meetings in 2020 (Appendix 1).

40. Due to travel restrictions enforced by the COVID-19 crisis, new meeting formats were explored and introduced in 2020. These included, virtual working parties, teleconferences, meetings by correspondence and hybrid meetings using both virtual platforms and correspondence.

41. A technical hub was set up in Bangkok for the delivery of interpretation services and interpreters were hired directly from Thailand to service the TCAC06, S24 and SC23 meetings via a Zoom platform specially developed for FAO interpreters.

Preparation of reports

42. The IOTC Secretariat staff provided the necessary support to all IOTC meetings in 2020 related to the development and dissemination of meeting reports. 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. This process took a little longer in some cases due to the added time required for the editing and clearance process by correspondence. All final documents were readily available in French soon after the final adoption.

43. The IOTC Secretariat continues to work with several translators for the provision of translation services and in 2020 worked again with a pool of three translators. Documents are prepared in both languages of the Commission for the Sessions of the Commission, and all Committees.

44. Appendix 2 lists the documents produced by the IOTC Secretariat in support of all the 2020 meetings of IOTC bodies.

Meeting Participation Fund usage

45. The Secretariat administers the IOTC Meeting Participation Fund (MPF). The MPF currently serves nine scientific bodies (seven working parties, the Technical Committee on Management Procedures and the Scientific Committee); and six non-scientific bodies (the Technical Committee on Allocation Criteria, the Technical Committee on Performance Review, the Working Party on the Implementation of Conservation and Management Measures, the Standing Committee on Administration and Finance, the Compliance Committee and the Commission)

46. Due to COVID-19 travel restrictions there was no travel after February 2020. The meeting participation fund only supported the participation of individuals to the WGVMS WGCDS and WPICMM03 meetings held in Nairobi in February. Details are provided in IOTC-2021-SCAF18-06.

FUNCTIONAL AREA 3.5 INFORMATION TECHNOLOGY

47. The provision of computer infrastructure, including maintenance of the network and servers, as well as Internet support was provided by a consultant paid under the provisions of the Headquarters Agreement with the Republic of Seychelles. However, it must be noted that this payment is still pending. These services were also extended to general meeting support and IOTC website maintenance.

48. Following on from the IT infrastructure improvements in 2019, additional improvements were made to the monitoring software in 2020. Equipment purchases included two new desktop computers, and two new laptops. Improvements continued with the asset control mechanisms and some obsolete items were disposed of.

49. Internet bandwidth requirements increased significantly in 2020 because of an almost-full complement of staff and the need to facilitate videoconference meetings. After some market research and negotiation with the main local supplier, the internet capacity was increased by moving from a shared line (4:1 ratio) to a dedicated (individual) connection.

50. Improvements were made to the meeting room by adding a SMART television and other accessories to assist with virtual meetings. New USB headsets were also purchased to improve the sound quality during meetings.

51. Some technical improvements/modifications were made to the IOTC website after consultation with users and the webpages were updated.

FUNCTIONAL AREA 3.6 ADMINISTRATION

Administrative Staff

52. The IOTC Secretariat's Administrative Unit was staffed as follows:

- Administrative Officer (P3)
- Administrative Assistant (G6)
- Office Associate (G6)
- Administrative Assistant (G5)
- Driver/Receptionist (G2)
- IT System Manager (consultant)
- A part-time cleaner is also part of the administration team.

53. The Administrative Unit became fully staffed at the beginning of 2020 after the recruitment of the G5 Office Assistant.

Activities of the IOTC Administrative Unit

54. The human resources and administration functions of the IOTC are managed through various FAO electronic systems. The Global Resource Management System (GRMS) covers the administration of all funds, travel arrangements, HR support and procurement. Projects are managed through the Field Programme Management Information System and the integrated Management Information System is used to generate up-to date reports on all areas of administration. Using these systems and in liaison with FAO HQ, the unit provided administrative support to all activities of the Secretariat, in particular:
- Procurement of goods and services including tenders and contract processing
- Recruitment and management of staff and consultant contracts
- Financial management and reporting including budget monitoring, contribution tracking, asset control and banking
- Project management support and liaison with donors
- Travel of staff, consultants and meeting participants, and the management of the Meeting Participation Fund
- Meeting planning and logistics
- Correspondence and communication management
- IT support
- Data preparation for reports to the SCAF which advises the Commission on administrative and financial matters such as the financial status and the provisional budget for the ensuing year
- Facilities Management
- Guidance and advice to staff about IOTC and FAO rules and procedures.

New Systems and Procedures in 2020

55. New FAO Administrative Guidelines (V.4) were introduced in April 2020 which included a range of measures aimed at helping to deal with the issues encountered during the COVID-19 crisis. These included more flexible work arrangements, clearer travel rules and more flexibility concerning the rules for recruiting project consultants.

56. In 2020 FAO completed the rollout of the recruitment system, 'TALEO' and all recruitment of both staff and consultants is now managed through this system. TALEO ensures a more effective and transparent recruitment process from the screening of candidates to the final selection.

5. OTHER ACTIVITIES

Collaborations with other organisations

57. 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).

58. There was considerable interaction between the IOTC Secretariat, the Secretariats of the other tuna RFMOs and CCAMLR during 2020, with numerous exchanges of ideas and information on the best videoconference 'tool's and practices for virtual meetings. IOTC benefitted greatly from this collaboration and the Secretariat remains grateful for the tremendous RFMO community spirit.

59. Inter-Governmental Organisations (IGOs): The IOTC Secretariat maintains 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's known as ECOFISH and SWIOFISH 2.

60. In 2020, the Secretariat continued its collaboration with the Overseas Fishery Cooperation Foundation (OFCF) on improving statistical systems for tuna resources. This included receiving the final outputs on the work undertaken to develop a Fisheries Satellite Account for Seychelles and receiving support for the publication of species identification guides.

61. The Secretariat also continued its collaboration the GEF-FAO ANBJ Tuna Project.

6. SUGGESTED ACTION BY THE STANDING COMMITTEE ON ADMINISTRATION AND FINANCE

62. That the SCAF NOTE paper IOTC–2021–SCAF18–03 which provides the SCAF with an update on the activities of the IOTC Secretariat in 2020.

APPENDIX 1
2020: LIST OF IOTC MEETINGS AND CHAIRS

Meeting	Date / Location			CPC/Affiliation	Starting	Ending	Term
WPTmT	Not scheduled in 2020	Chair	Dr Jiangfeng Zhu	China	I2019	2021	2
		Vice-Chair	Dr Toshihide Kitakado	Japan	2019	2021	2
TCAC	15-16 September, by videoconference	Chair	Ms Nadia Bouffard	Independent	2020	-	-
TCPR	Not scheduled in 2020	Chair	-	-	-	-	
		Vice-Chair	-	-	-	-	
WPICMM	12-14 February, Kenya	Chair	Mr Roy Clarisse	Seychelles	2019	2021	2
		Vice-Chair	Mr Benedict Kiilu	Kenya	2019	2021	2
CoC	1-2 October, by videoconference	Chair	Ms Anne-France Mattlet	EU, France	2019	2021	1
		Vice-Chair	Dr. Indra Jaya	Indonesia	2019	2021	1
SCAF	25 September - 6 October, by email	Chair	Mr Hussain Sinan	Maldives	2018	2021	1
		Vice-Chair	Mr Muhammad Farhan Khan	Pakistan	2018	2021	1
TCMP	Cancelled	Co-Chairs	Commission and SC Chairs	-	-	-	-
Commission	2-6 November, by videoconference	Chair	Ms Susan Imende	Kenya	2018	2020	1
		Vice-Chair	Ms Jung Re Kim	Rep. of Korea	2019	2021	2
		Vice-Chair	Mr Adam Ziyad	Maldives	2018	2020	1
WPNT	6-8 July, by videoconference	Chair	Ms Ririk Sulistyaningsih	Indonesia	2019	2021	1
		Vice-Chair	Dr Farhad Kaymaram	I.R. Iran	2019	2021	1
WPB	2-4 September, by videoconference	Chair	Dr Denham Parker	S. Africa	2019	2021	1
		Vice-Chair	Dr Jie Cao	China	2019	2021	1
WPEB	7-10 September, by videoconference	Chair	Dr Sylvain Bonhommeau	EU,France	2019	2021	2
		Vice-Chair	Dr. Mohamed Koya	India	2019	2021	1
		Vice-Chair	Dr. Mariana Tolotti	EU,France	2019	2021	1
WPM	14-15 October, by videoconference	Chair	Dr Hilario Murua	ISSF	2019	2021	1

		Vice-Chair	Ms Daniela Rosa	EU	2019	2021	1
WPTT	22 – 24 June (Data Prep) and 19 – 23 October (Assessment), by videoconference	Chair	Dr Gorka Merino	EU,Spain	2018	2020	1
		Vice-Chair	Dr Shiham Adam	Maldives	2018	2020	1
WPDCS	30 November-2 December, by videoconference	Chair	Mr Stephen Ndegwa	Kenya	2019	2021	2
		Vice-Chair	Dr Julien Barde	EU,France	2019	2021	2
SC	7-11 December, Seychelles, by videoconference	Chair	Dr Toshihide Kitakado	S. Africa	2019	2021	1
		Vice-Chair	Dr Denham Parker	Japan	2019	2021	1

APPENDIX 2
2020: LIST OF DOCUMENTS PRODUCED BY IOTC SECRETARIAT STAFF

3rd Meeting of the Catch Documentation Scheme Working Group

IOTC-2020-CDSWG01	Provisional agenda of the CDSWG
IOTC-2020-CDSWG02	IOTC MCS CDS Study
IOTC-2020-CDSWG03	IOTC CDS presentation CDS Workshop Maputo
IOTC-2020-CDSWG04	IOTC CDS options
IOTC-2020-CDSWG05	Summary
IOTC-2020- CDSWG05-R	CDS WG Meeting Report

2nd Session of the Working party on the Implementation of Conservation and Management Measures

IOTC–2020–WPICMM03–01a	Provisional agenda of the 3rd WPICMM.
IOTC–2020–WPICMM03–01b	Annotated agenda of the 3rd WPICMM.
IOTC–2020–WPICMM03–02	List of documents of the 3rd WPICMM.
IOTC–2020–WPICMM03–03	VMS Possible Infractions with switch under the ROP.
IOTC–2020–WPICMM03–04	Progress report on the implementation of the WPICMM work plan and on the recommendations of the WPICMM02.
IOTC–2020–WPICMM03–05	Methodology for evaluation of CPCs national MCS programs against the minimum requirement for CMMs.
IOTC–2020–WPICMM03–06	Review of the final draft of the glossary of terms and definitions which should be used by Members when drafting proposals for Resolutions for the Commission.
IOTC–2020–WPICMM03–07	Legal scrubbing of the IOTC Resolutions.
IOTC–2020–WPICMM03–08a	Review the possible infractions detected under the Regional Observer Programme in 2019.
IOTC–2020–WPICMM03–08b	Results of investigation received from the fleets on the possible infractions detected under the Regional Observer Programme in 2019.
IOTC–2020–WPICMM03–09	Review of a proposal of a methodology to conduct the assessment of the possible infractions detected under the Regional Observer Programme.
IOTC–2020–WPICMM03–10	Review and update of Work Plan WPICMM.
IOTC–2020–WPICMM03–11	Assessment criteria for the Compliance Report for CoC17.
IOTC–2020–WPICMM03–11 Add1	Assessment criteria for Compliance Report[E] - Country Template for COC17.
IOTC–2020–WPICMM03–11 Add2	Country Compliance Report Template for COC17.
IOTC–2020–WPICMM03–12	Draft guidelines on how IOTC might operationalize the FAO voluntary guidelines on the marking of fishing gear.
IOTC–2020–WPICMM03–13	Proposal to amend appendix V of the IOTC Rules of Procedure – European Union.
IOTC–2020–WPICMM03–14	Cooperation Programme between the Indian Ocean Memorandum of Understanding on Port State Control and the Indian Ocean Tuna Commission.
IOTC-2020-WPICMM03-R	Report of the 3rd Session of the IOTC Working Party on Implementation of Conservation and Management Measures.

16th Session of the Compliance Committee

IOTC-2020-CoC17–01a	Provisional Agenda for the Seventeenth Session of the Compliance Committee.
IOTC-2020-CoC17–01a_Rev2	Final Agenda for the Seventeenth Session of the Compliance Committee.
IOTC-2020-CoC17–02_Rev8	Final list of documents for the Seventeenth Session of the Compliance Committee.
IOTC-2020-CoC17–03_Rev3	Summary report on the level of compliance.
IOTC-2020-CoC17–04a	Report on Transhipment Resolution 19/06 – Secretariat's Report.

IOTC-2020-CoC17–04b	A Summary of the IOTC Regional Observer Programme during 2019 – Contractor's Report.
IOTC-2020-CoC17–05_Rev1	Implementation of reporting obligations of nominal catch data (IOTC Resolution 18/07).
IOTC-2020-CoC17–06	Update on Progress Regarding Resolution 16/03 – On the Second Performance Review Follow–up.
IOTC-2020-CoC17–07a	Complementary elements for discussion under item 4 of the agenda for the Compliance Committee.
IOTC-2020-CoC17–07a_Add1	Information from Australia.
IOTC-2020-CoC17–07a_Add2	Communication from the fleet of Taiwan,China concerning the vessel Yong Qing Fa No. 666.
IOTC-2020-CoC17–07b	Summary report on possible infractions observed under the Regional Observer Programme in 2019.
IOTC-2020-CoC17–07c	Reporting of vessels in transit through BIOT waters for potential breach of IOTC Conservation and Management Measures.
IOTC-2020-CoC17–08	The IOTC Draft IUU Vessels List.
IOTC-2020-CoC17–9_Rev1	Summary of Compliance with the drifting FADs Management Plans.
IOTC-2020-CoC17–9 Add1	Collection of drifting Fish Aggregating Devices Management Plans.
IOTC-2020-CoC17–10_Rev1	Summary report on Compliance Support Activities.
IOTC-2020-CoC17–11	Implementation of Recommendations relevant to the Compliance Committee.
IOTC-2020-CoC17–12	Draft LoU between IOTC and IOMOU.
IOTC-2020-CoC17–13	IOTC Catch Documentation Scheme - Progress report and Terms of Reference for the Working Group.
IOTC-2020-CoC17-14	Proposal of Terms of Reference for developing a scheme to operationalise the FAO Voluntary Guidelines on the Marking of Fishing Gear (VGMFG).
IOTC-2020-CoC17–CR01	Australia
IOTC-2020-CoC17–CR02	Bangladesh
IOTC-2020-CoC17–CR03_Rev1	China
IOTC-2020-CoC17–CR04	Comoros
IOTC-2020-CoC17–CR05	Eritrea
IOTC-2020-CoC17–CR06	European Union
IOTC-2020-CoC17–CR07	France (territories)
IOTC-2020-CoC17–CR08	India
IOTC-2020-CoC17–CR09	Indonesia
IOTC-2020-CoC17–CR10	Iran, Islamic Republic of
IOTC-2020-CoC17–CR11_Rev1	Japan
IOTC-2020-CoC17–CR12	Kenya
IOTC-2020-CoC17–CR13	Korea, Republic of
IOTC-2020-CoC17–CR14	Madagascar
IOTC-2020-CoC17–CR15_Rev1	Malaysia
IOTC-2020-CoC17–CR16	Maldives
IOTC-2020-CoC17–CR17	Mauritius
IOTC-2020-CoC17–CR18	Mozambique
IOTC-2020-CoC17–CR19	Oman
IOTC-2020-CoC17–CR20	Pakistan
IOTC-2020-CoC17–CR21	Philippines
IOTC-2020-CoC17–CR22	Seychelles
IOTC-2020-CoC17–CR23	Sierra Leone
IOTC-2020-CoC17–CR24	Somalia

IOTC-2020-CoC17–CR25	South Africa
IOTC-2020-CoC17–CR26	Sri Lanka
IOTC-2020-CoC17–CR27	Sudan
IOTC-2020-CoC17–CR28	Tanzania, United Republic of
IOTC-2020-CoC17–CR29	Thailand
IOTC-2020-CoC17–CR30	United Kingdom (Territories)
IOTC-2020-CoC17–CR31	Yemen
IOTC-2020-CoC17–CR32	Liberia
IOTC-2020-CoC17–CR33	Senegal
IOTC-2020-CoC17-MRD	Meeting Response Document - CoC17
IOTC-2020-CoC17-R	Report of the 17th Session of the Compliance Committee.

17th Session of the Standing Committee on Administration and Finance

IOTC–2020–SCAF17–01a	Draft agenda for SCAF17.
IOTC–2020–SCAF17–01b	Final agenda for SCAF17.
IOTC–2020–SCAF17–01c	Annotated agenda for SCAF17.
IOTC–2020–SCAF17–02	List of documents.
IOTC–2020–SCAF17–03	Report of the IOTC Secretariat on the year 2019.
IOTC–2020–SCAF17–04	Financial Statement for 2019.
IOTC–2020–SCAF17–05	Contributions Outstanding.
IOTC–2020–SCAF17–06	IOTC Meeting Participation Fund
IOTC–2020–SCAF17–07	Provisional Program of work and budget for 2021 (and Indicative Budget for 2022).
IOTC-2020-SCAF17-09	Mid-term financial report 2020
IOTC-2020-SCAF17-10	Finalisation of the IOTC Financial Regulations (2019)
IOTC-2020-SCAF17-MRD	Meeting Response Document for SCAF17
IOTC-2020-SCAF17-R	Meeting report

23rd Session of the Commission

IOTC–2020–S24–01a	Draft agenda for S24 (v3Sep).
IOTC–2020–S24–01b	Draft agenda for S24 (v3Oct).
IOTC–2020–S24–01c	S24 pre-meeting discussion document.
IOTC–2020–S24–01d	Annotated agenda (v30Oct).
IOTC–2020–S24–02	List of documents (v20May).
IOTC–2020–S24–03	Progress on requests for action made by the Commission in 2019.
IOTC–2020–S24–04_rev3	Consultation towards the development of a proposal for a permanent procedure to select the Executive Secretary.
IOTC–2020–S24–05	Conservation and management measures that include a reference to the year 2020.
IOTC–2020–S24–06	Review of objections received under Article IX.5 of the IOTC Agreement.
IOTC–2020–S24–07	Replacement of the existing memorandum of understanding between the IOTC and the Secretariat for the Agreement on the Conservation of Albatrosses and Petrels (ACAP).
IOTC–2020–S24–08	Proposed Letter of Understanding between the Indian Ocean Memorandum of Understanding on Port State Control (IOMOU) and the Indian Ocean Tuna Commission (IOTC).
IOTC-2020-S24-R	Meeting report

22nd Working Party on Tropical Tuna (WPTT): Data preparatory meeting	
IOTC–2020–WPTT22(DP)–03	Outcomes of the 22nd Session of the Scientific Committee (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–05	Review of Conservation and Management Measures relevant to tropical tunas (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–06	Progress made on the recommendations of WPTT21 (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–07	Outcomes of the 3rd Session of the Technical Committee on management Procedures (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–08	Review of the statistical data and fishery trends for tropical tunas (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–09	Revision of the WPTT Program of Work (2021–2025) (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–10	Tag Data Processing for IOTC Tropical Tuna Assessments (IOTC Secretariat)
IOTC–2020–WPTT22(DP)–INF07	Review of size data from Indian Ocean longline fleets, and its utility for stock assessment (Hoyle S, Chang S-T, Fu D, Geehan J, Kim D-N, Lee S-I, Matsumoto T, Yeh Y-M and Wu R-F.).
IOTC-2020-WPTT22(DP)-R	Meeting report
10th Session of the IOTC Working Party on Neritic Tunas	
IOTC–2020–WPNT10–03	Outcomes of the 22nd Session of the Scientific Committee (IOTC Secretariat)
IOTC–2020–WPNT10–04	Outcomes of the 23nd Session of the Commission (IOTC Secretariat)
IOTC–2020–WPNT10–05	Review of current Conservation and Management Measures relating to neritic tuna species (IOTC Secretariat)
IOTC–2020–WPNT10–06	Progress made on the recommendations and requests of WPNT09 and SC22 (IOTC Secretariat)
IOTC–2020–WPNT10-07	Review of the statistical data available for the neritic tuna species (IOTC Secretariat)
IOTC–2020–WPNT10–08	Revision of the WPNT Program of Work (2021–2025) (IOTC Secretariat)
IOTC–2020–WPNT10–13	Assessment of Indian Ocean longtail tuna using data-limited methods (IOTC secretariat)
IOTC–2020–WPNT10–14	Assessment of Indian Ocean narrow-barred Spanish mackerel using data-limited methods (IOTC secretariat)
IOTC–2020–WPNT10–15	Assessment of Indian Ocean kawaka using data-limited methods (IOTC secretariat)
IOTC-2020-WPNT10-R	Meeting report
16th Session of the Working Party on Ecosystems and Bycatch	
IOTC-2020-WPEB16-03	Outcomes of the 22nd Session of the Scientific Committee (IOTC Secretariat)
IOTC-2020-WPEB16-04	Outcomes of the 23rd Session of the Commission (IOTC Secretariat)
IOTC-2020-WPEB16-05	Review of Conservation and Management Measures relevant to ecosystems and bycatch (IOTC Secretariat)
IOTC-2020-WPEB16-06	Progress made on the recommendations and requests of WPEB15 and SC22 (IOTC Secretariat)
IOTC-2020-WPEB16-07	Review of the statistical data and fishery trends for ecosystems and bycatch species (IOTC Secretariat)
IOTC-2020-WPEB16-08	Update on the implementation of the IOTC Regional Observer Scheme (IOTC Secretariat)
IOTC-2020-WPEB16-09	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-2020-WPEB16-10	Revision of the WPEB Program of Work (2020–2024) (IOTC Secretariat & Chairperson)
IOTC-2020-WPEB16-17	Preliminary Modelling for the Stock Assessment of Shortfin Mako Shark, *Isurus oxyrinchus* using CMSY and JABBA (Bonhommeau S, Chassot E, Barde J, de Bruyn P, Fiorellato F, Nelson L, and Fu D. and Nieblas A.E.)
IOTC-2020-WPEB16-19	A review of mobulid ray interactions with fisheries for tuna and tuna-like species in the Indian Ocean (Martin S)
IOTC-2020-WPEB16-R	Meeting report
18th Session of the IOTC Working Party on Billfish	
IOTC-2020-WPB18-03	Outcomes of the 22nd Session of the Scientific Committee (IOTC Secretariat)
IOTC-2020-WPB18-04	Outcomes of the 23rd Session of the Commission (IOTC Secretariat)

IOTC-2020-WPB18-05	Review of Conservation and Management Measures relevant to billfish (IOTC Secretariat)
IOTC-2020-WPB18-06	Progress made on the recommendations and requests of WPB17 and SC22 (IOTC Secretariat)
IOTC-2020-WPB18-07	Review of the statistical data and fishery trends for billfish species (IOTC Secretariat)
IOTC-2020-WPB18-08	Revision of the WPB Program of Work (2020-2024) (IOTC Secretariat)
IOTC-2020-WPB18-16	Preliminary Indian Ocean Swordfish Stock Assessment 1950-2018 (Stock Synthesis) (Fu D)
IOTC-2020-WPB18-R	Meeting report

11th Working Party on Methods

IOTC–2020–WPM11–02	List of documents of the 11th Working Party on Methods
IOTC–2020–WPM11–03	Outcomes of the 22nd Session of the Scientific Committee (IOTC Secretariat)
IOTC–2020–WPM11–04	Outcomes of the 23rd Session of the Commission (IOTC Secretariat)
IOTC–2020–WPM11–05	Review of Conservation and Management Measures relating to methods (IOTC Secretariat)
IOTC–2020–WPM11–06	Progress made on the recommendations and requests of WPM10 and SC22 (IOTC Secretariat)
IOTC–2020–WPM11–07	Revision of the WPM Program of Work (2020–2024) (IOTC Secretariat & Chairpersons)
IOTC-2020-WPM11-R	Meeting report

22nd Session of the Working Party on Tropical Tunas: Assessment Meeting

IOTC–2020–WPTT22(AS)–03	Review of the statistical data and fishery trends for tropical tunas (IOTC Secretariat)
IOTC–2020–WPTT22(AS)–04	Revision of the WPTT Program of Work (2021–2025) (IOTC Secretariat)
IOTC–2020–WPTT22(AS)–10	Preliminary Indian Ocean Skipjack Stock Assessment (Stock Synthesis) (Fu D)
IOTC–2020–WPTT22(AS)–21	Preliminary Stock Assessment for Yellowfin Tuna in the Indian Ocean: Hypothesis and Diagnostics (Urtizberea A, Cardinale M, Methot R, Fu D, Fernández C, Winker H, Kitakado T, Merino G).
IOTC-2020-WPT22-R	Meeting report

15th Working Party on Data Collection and Statistics

IOTC–2020–WPDCS15–03	Outcomes of the 22nd Session of the Scientific Committee (IOTC Secretariat)
IOTC–2020–WPDCS15–04	Outcomes of the 24th Session of the Commission (IOTC Secretariat)
IOTC–2020–WPDCS15–05	Review of current Conservation and Management Measures relating to the WPDCS (IOTC Secretariat)
IOTC–2020–WPDCS15–06	Progress on the recommendations of WPDCS14 (IOTC Secretariat)
IOTC–2020–WPDCS15–07	Report on IOTC Data Collection and Statistics (IOTC Secretariat)
IOTC–2020–WPDCS15–08	IOTC capacity building activities in support of developing coastal IOTC CPCs (IOTC Secretariat)
IOTC–2020–WPDCS15–09	Revision of the WPDCS Program of Work (2021–2025) (IOTC Secretariat, Chairperson & Vice-Chairperson)
IOTC-2020-WPDCS15-R	Meeting report

21st Session of the Scientific Committee

IOTC–2020–SC23–03	Outcomes of the 24th Session of the Commission (IOTC Secretariat)
IOTC–2020–SC23–04	Previous decisions of the Commission (IOTC Secretariat)
IOTC–2020–SC23–05	Report of the Secretariat – Activities in support of the IOTC science process in 2019 (IOTC Secretariat)
IOTC–2020–SC23–06	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–2020–SC23–07	2020: Update on the implementation of the regional observer scheme (IOTC Secretariat)
IOTC–2020–SC23–08	Revision of the program of work (2021–2025) for the IOTC science process (IOTC Secretariat)
IOTC–2020–SC23–09	Proposed schedule of Working Party and Scientific Committee meetings for 2021 and 2022 (IOTC Secretariat)
IOTC–2020–SC23–10	Progress on recommendations from SC21 (IOTC Secretariat)
IOTC-2020-SC23-R	Meeting report

APPENDIX 3
ACRONYMS USED IN THIS REPORT

CMM	Conservation and Management Measure (of the IOTC; Resolutions and Recommendations)
CNCP	Cooperating Non-Contracting Party, of the IOTC
CoC	Compliance Committee
CPs	Contracting Parties
CPCs	Contracting Parties and Cooperating non-Contracting Parties
FAO	Food and Agriculture Organization of the United Nations
IOTC	Indian Ocean Tuna Commission
IUU	Illegal, unreported and unregulated
MPF	Meeting participation fund
MSE	Management Strategy Evaluation
OFCF	Overseas Fishery Cooperation Foundation of Japan
SC	Scientific Committee
SCAF	Standing Committee on Administration and Finance
TCAC	Technical Committee on Allocation Criteria
TCMP	Technical Committee on Management Procedures
TCPR	Technical Committee on Performance Review
WPB	Working Party on Billfish
WPDCS	Working Party on Data Collection & Statistics
WPEB	Working Party on Ecosystems and Bycatch
WPICMM	Working party on the Implementation of Conservation and Management Measures
WPM	Working Party on Methods
WPNT	Working Party on Neritic Tunas
WPTmT	Working Party on Temperate tunas
WPTT	Working Party on Tropical Tunas