
REPORT OF THE IOTC SECRETARIAT ON THE YEAR 2022

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 2022. A list of acronyms is provided in [Appendix 4](#).

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1) MEMBERSHIP OF THE IOTC IN 2022

- 30 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, Somalia, South Africa, Sri Lanka, Sudan, Tanzania (United Rep. of), Thailand, United Kingdom and Yemen.
- 1 Cooperating Non-Contracting Parties (CNCP):** Liberia (granted in May 2022).

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.”

- 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 2022 is provided in Figure 1.

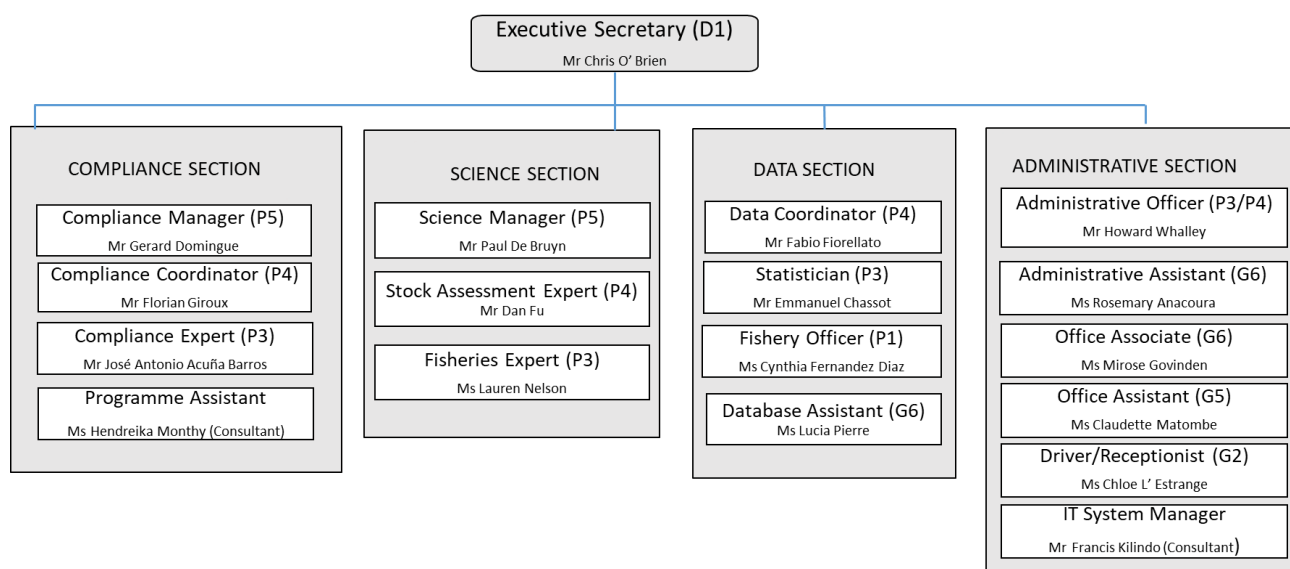


Figure 1: IOTC Staff Structure 2022

Professional Staff – Recruitment activities

- The IOTC Secretariat had its full complement of staff by the end of 2022.

General Service Staff – Recruitment activities

- The General Service Staff positions remained filled throughout 2022 except for the Driver, Ms Chloe L’Estrange who retired at the end of November after 24 years of service.

3) 2022 RELOCATION OF THE IOTC SECRETARIAT OFFICES

- On 15 October 2021, a major fire caused serious structural damage to Le Chantier Mall — the building that hosted the IOTC Secretariat. In December, the Seychelles Government informed the Secretariat that Le Chantier Mall was to close and the IOTC Secretariat would need to find new offices. A search for new premises began in January 2022 and in February the Secretariat moved into new offices in the Abis Centre 2 building located in Providence, where it now occupies the entire 2nd floor. This transition was described in IOTC-2022-SCAF19-02.

4) FUNCTIONAL AREAS OF WORK

8. To facilitate accountability, the activities of the IOTC Secretariat in 2022 have been grouped into six major functional areas which reflect the *'Program of work and budget'* approved by the Commission at its 25th Session in 2021, as follows:
1. **Support to meetings:** Logistic support in the facilitation of meetings, preparation of reports and maintenance of the meetings calendar.
 2. **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.
 3. **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.
 4. **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.
 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 4.1 SUPPORT TO MEETINGS

Logistic support in the facilitation of meetings

9. The IOTC Secretariat organised and supported 21 meetings in 2022 ([Appendix 1](#)) plus 3 meetings of a small working group on the Working Capital Fund and 3 meetings of Heads of Delegations to discuss yellowfin tuna.
10. Due to travel restrictions enforced by the COVID-19 pandemic, new meeting formats were explored and introduced in 2020 and these continued to be used in 2022. These included, virtual working groups, and working parties, teleconferences, meetings by correspondence and hybrid meetings using both virtual platforms and correspondence.
11. A technical hub based in Bangkok was used for the delivery of interpretation services, and interpreters were hired directly from Thailand to service the TCAC10, S26, CoC19, SCAF19, TCMP05, and SC24 meetings via a Zoom platform specially developed for FAO interpreters.

Preparation of reports

12. The IOTC Secretariat staff provided the necessary support to all IOTC meetings in 2022 related to the development and dissemination of meeting reports. All IOTC meeting reports were developed, finalised and disseminated efficiently and in the shortest timeframe possible 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 available in French soon after the final adoption.
13. The IOTC Secretariat continued to work with two translators for the provision of translation services. Documents are prepared in both languages of the Commission for the Sessions of the Commission, and all Committees.
14. [Appendix 3](#) lists the documents produced by the IOTC Secretariat in support of all the 2022 meetings of IOTC bodies.

Meeting Participation Fund usage

15. 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 five non-scientific bodies (the Technical Committee on Allocation Criteria, the Working Party on the Implementation of Conservation and Management Measures, the Standing Committee on Administration and Finance, the Compliance Committee and the Commission).

16. Use of the MPF in 2022 increased as COVID 19 travel restrictions were lifted. The numbers of attendees supported by the MPF in 2022 and other details are provided in IOTC-2023-SCAF20-05.

FUNCTIONAL AREA 4.2 SUPPORT TO SCIENTIFIC ACTIVITIES IN 2022

17. 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)
- Fishery Officer-Statistician (P3)
- Fishery Officer-Science (P3)

The role of the IOTC Secretariat in scientific matters

18. The IOTC Secretariat currently provides the following services to the scientific processes of the Commission:

- Advice and training in data collection and reporting.
- 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.

Science activities in 2022

19. In 2022, 12 technical (science) meetings and one Scientific Committee meeting were organised and facilitated by the IOTC Secretariat ([Appendix 1](#)). The numbers of attendees at each meeting are provided in IOTC-2022-SC25-R. The current Chairs and Vice-Chairs for each Committee and Working Party are listed in [Appendix 2](#).
20. [Appendix 3](#) lists the documents produced by the IOTC Secretariat in support of the scientific meetings held in 2022. 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.

Other 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. Funding for translating and delivering ID cards was provided by OFCF. The current set of identification guides available is provided here: www.iotc.org/science/species-identification-cards.
- Ecoregions workshop: The Secretariat participated in an ad hoc workshop of the WPEB, to discuss the definition of Ecoregions in the Indian Ocean for potential use in Ecosystems Based Fisheries Management (EBFM). The outcomes of that workshop were presented to the WPEB in document IOTC-2022-WPEB18-22_rev1.
- Driftnet/gillnet Multi-taxa Bycatch Mitigation Workshop: The Secretariat facilitated and participated in an ad hoc workshop of the WPEB, to discuss mitigation techniques to reduce incidental bycatch in gillnet/drift net fisheries in the Indian Ocean. The outcomes of the workshop are provided in document IOTC-2022-WPEB18-INF11.
- 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 have been purchased and are in the process of being deployed. An update was provided

in IOTC-2022-WPEB18-INF22.

- Bigeye tuna stock assessment: The IOTC stock assessment scientist carried out a stock assessment of bigeye tuna (1950-2021) using stock synthesis III. The results indicated that the stock is currently overfished and subject to overfishing. The updated bigeye assessment was not considered for management advice in 2022 as the bigeye tuna stock is managed according to the Management Procedure adopted in Res 22/03.
- Albacore tuna stock assessment: A Stock Assessment consultant funded by the IOTC regular budget, carried out a stock assessment of albacore tuna (1950 – 2020) using stock synthesis II. The consultant was aided by the IOTC Stock assessment scientist.
- Yellowfin and bigeye tuna MSE: A Stock Assessment consultant funded by a contribution from Australia conducted MSE for yellowfin and bigeye tuna.
- Skipjack MSE: A Stock Assessment consultant funded by the IOTC regular budget, conducted MSE for skipjack tuna. The consultant worked to update the skipjack harvest control rule and develop a fully specified MP based on the updated stock assessment for the species.
- Albacore and Swordfish MSE: A Stock Assessment contract with the University of Wageningen funded by the IOTC regular budget, conducted MSE for albacore tuna. The University is working to update the OM based on the updated stock assessment for albacore as well as develop an OM for Swordfish.
- Implementation for the ROS as well as E-Monitoring. In 2022 the project to implement the ROS in 4 member countries, was continued with support from grants provided by the EU.
- Standardising CPUE of tuna and billfish species: A consultant conducted a review of best practices for CPUE standardization and presented the results to the WPTT in 2022. The work provided general advice to analysts developing CPUE indices for IOTC stock assessments.
- Natural mortality estimates for tropical tunas: A consultant conducted a review of natural mortality estimates for Tropical tunas in the Indian Ocean. This information was presented to the WPTT in 2022
- CITES shark proposals: The Secretariat participated in a workshop to discuss how the CITES and RFMO processes could be better harmonized. The Secretariat also participated in the 7th FAO expert advisory panel for the assessment of commercially-exploited aquatic species proposals to amend appendices I and II of CITES. The Secretariat provided the information available for the species being considered.
- Global implementation of the United Nations’ shark conservation and management plan: The Secretariat participated in a workshop to discuss the status of NPOAs for sharks and their implementation. The Secretariat provided information on the submitted NPOAs for IOTC CPCs.
- Spatial stock assessment workshop: the IOTC Stock assessment scientist participated in a spatial stock assessment workshop that used Indian Ocean yellowfin tuna stock as a case study, and has developed several models based on simulated data to investigate the relative performance of the spatial/non-spatial assessment models.
- Close kin mark recapture workshop: the IOTC Stock assessment scientist participated in a CKMR training workshop organized by CSIRO. The workshop consists of a mix of training on CKMR theory and practical work, including how to build fundamental CKMR models in a variety of contexts. IOTC has recently completed several feasibility study on applying CKM abundance estimates to IOTC species including yellowfin tuna as well as major shark species.

Consultants

- Dr Charles Edwards: skipjack tuna management strategy evaluation (MSE) — funded by IOTC regular budget.
- Dr. Simon Hoyle: provided natural mortality estimates for tropical tuna stock assessments. He also investigated conducted an exercise to standardise CPUE of tuna and billfish species and provided general advice to analysts developing CPUE indices for IOTC stock assessments. This work was funded by the IOTC regular budget.
- Dr Iago Mosqueira (University of Wageningen): albacore tuna management strategy evaluation (MSE) — funded by IOTC regular budget.
- Dr Joel Rice: stock assessment of albacore tuna in the Indian Ocean - funded by IOTC regular budget.

21. In 2022, the Secretariat completed a multi-year project funded by the European Union (DG Maritime Affairs and Fisheries) that provided technical assistance to developing countries to improve implementation of at sea observer scheme, data collection and the work of the both the Scientific Committee and Compliance Committee.

Data activities in 2022

Data-related activities: Capacity building and other initiatives

22. The IOTC Secretariat continued with its mandate to provide direct support to and facilitate the work of developing coastal States, mainly through funds from the IOTC capacity building budget and other collaborating agencies.
23. The European Union and the Overseas Fishery Cooperation Foundation of Japan (OFCF) provided resources and advice for the strengthening of data collection systems. In addition, the IOTC Secretariat cooperated with several other stakeholders including the ABNJ Tuna Project, the International Seafood Sustainability Foundation, the World Bank, CMS and IOSEA, to coordinate and execute capacity building and research activities in developing coastal States of the Indian Ocean. The IOTC Secretariat also continued collaborations with NOAA, WWF-Pakistan, WWF-USA and SIOTI on capacity building activities to specifically support the implementation of the Regional Observer Scheme.
24. Table 1 provides a summary of the main capacity building activities undertaken in 2022, which can be broadly categorised into the following activities:

- a) **Data compliance and support missions:** these are 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), assess current shortcomings concerning the collection and management of fisheries data, and agree on a plan of action required for CPCs to deliver improvements in their levels of reporting.

Due to the travel restrictions still in place during 2022 in some areas of the region, on-the-field support could only be provided to Indonesia through two missions conducted in July and November 2022. However, staff from the data Section of the IOTC Secretariat has continued to be engaged in remote meetings with selected CPCs (e.g., Madagascar, Comoros) and international stakeholders (e.g., FAO, EU).

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

Due to the travel restrictions still in place during 2022 in some areas of the region, only limited on-the-field support could be provided on these matters to CPCs through direct on-site missions. However, some activities were still carried on through remote meetings and workshops with selected CPCs (e.g., Madagascar, Comoros) and with regional and international stakeholders.

- c) **Support for implementation of the Regional Observer Scheme and implementation of the ROS Pilot Project:** ROS-related capacity building activities cover several components, including the further development and improvements of the IOTC ROS e-tools, as well as studies on the implementation of electronic monitoring systems (EMS) in small-scale fisheries.

Work on the ROS electronic tools and ROS regional database is still ongoing, to account (among other things) for the feedback on malfunctioning and usability issues reported by end-users and establish direct integration mechanisms between *ObServe* and the ROS regional database (in collaboration with scientists from IRD).

Following a proposal on Minimum standards for the design and implementation of EMS in Indian Ocean tuna fisheries presented at the SC in 2020, the Secretariat has also supported and contributed to the and delivery of the 2nd ad-hoc Working Group on EMS (June 2022).

Other data initiatives

25. **Consolidated List of Authorized Vessels:** The IOTC Secretariat coordinates the activities of the Consolidated List of Authorized Vessels (CLAV), an evolving, global list of authorized vessels collated from data sourced by 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 of ensuring that its updates occur in as close-to real time as possible. As of today, the IT infrastructure supporting the CLAV and currently hosted by the IOTC Secretariat is only partially operative due technical reasons, and the system components responsible for data updates were temporarily put on hold,

resulting in the CLAV not having been updated. The IOTC Secretariat has set aside resources and time to resolve the issue by Q1 2023.

26. **FIRMS Global Tuna Atlas:** The IOTC continues with its contribution to the provision of updated and harmonized geo-referenced monthly catches and total catches of main IOTC species to the Global Tuna Atlas. The resulting product (which is now part of the offering of FAO / FIRMS) provides a combined global overview of the extent and magnitude of commercial tuna fisheries across all major oceans, including data sourced from the five t-RFMOs and the collated and harmonized dataset it manages has been used to support the work of the Working Party on Tropical Tunas, and IOTC Working Group on FADs, among others.
27. **Regional Observer Scheme:** key areas of progress during 2022 included:
- The Electronic Monitoring Systems trial project for small-scale fisheries in Sri Lanka has concluded. The equipment was successfully installed onboard four vessels and the final sets of equipment have been delivered but are still pending installation onboard two further vessels by the Sri Lanka Ministry of Fisheries and Aquatic Resources. Remote training sessions were delivered to selected Sri Lankan observers and their coordinators and preliminary data from the trials have been analysed.
 - A contract was awarded for the development of training materials and supporting national observer schemes in four IOTC CPCs between 2019 and 2020 but project activities were postponed in Q2 2020 due to travel restrictions resulting from the Covid-19 pandemic. Project activities resumed in Q3 2021 and a package of training manuals and supporting documents were presented at the WPDCS17. This project is now wrapping up. Full training has been completed in the four participating countries and pilot deployments have been conducted in two participating countries. The Secretariat expects to receive data from these deployments in the near future.
28. **Processing of cannery sales data from ISSF-affiliated companies:** since 2010, the IOTC Secretariat has been receiving quarterly summaries of the products offloaded at several canneries associated with the International Seafood Sustainability Foundation (ISSF). The highly variable nature of the data formats used by each company, together with the lack of dedicated personnel for its processing, has so far prevented a proper utilisation of this valuable information. However, the Secretariat and ISSF have been working to clean-up the data submissions with the aim of, eventually, being able to estimate species composition from cannery data and to compare these with official data submissions from all involved IOTC CPCs.
29. **Socio-economic data:** Since 2021 the IOTC Secretariat has been collaborating with the Fisheries Development Division of the Pacific Islands Forum Fisheries Agency (FFA) and the FAO GLOBEFISH project team to develop a procedure to exchange socio-economic data sets (e.g., monthly time series of FAO tuna price index) of interest for the scientific analyses conducted during the IOTC Working Parties. Price data are now available from the IOTC website for download.

FUNCTIONAL AREA 4.3 SUPPORT TO COMPLIANCE ACTIVITIES IN 2022

Compliance Section Staffing

30. The IOTC Secretariat's compliance support services area was staffed by three full-time positions during 2022, with assistance provided by a local consultant with data processing duties. The staff are as follows:
- Compliance Manager (P5)
 - Compliance Coordinator (P4)
 - Compliance Officer (P3)
 - Consultant

The Compliance Section also benefitted from the support of a consultant funded by the IOC-SWIOFish 2 (World Bank) Project, throughout 2022. His role was to provide support to the IOTC CPCs who are beneficiaries of the SWIOFish 2 Project. The SWIOFish 2 Project also supported one short-term consultant to undertake support activities related to the implementation of flag State responsibilities in beneficiary countries. However, the after effects of COVID-19 limited the number of activities planned for 2022.

Role of the IOTC Secretariat in technical matters

31. 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 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 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 Groups, 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 transshipments at sea, including dissemination of deployment reports to the fleets participating in the Programme.
32. 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: VMS and CDS Working Groups, the WPICMM and CoC

33. Two meetings of the Vessel Monitoring Systems Working Group (VMSWG) were called in 2022; 25 January and 29 September. The level of participations in the following the meetings varied from 16 to 24 participants (eight Member States, two Observers and Invited Experts).
34. The Catch Documentation Scheme Working Group (CDSWG) held two meetings in 2022; 14-15 February and 27 September. A total of 55 participants (17 Member States, three Observers and Invited Experts) attended the first meeting and 45 participants (12 Member States, three Observers and Invited Experts) attended the second meeting.
35. The 5th Session of the Indian Ocean Tuna Commission's (IOTC) Working Party on Implementation of Conservation and Management Measures (WPICMM) was held via videoconference, from 16 to 18 February 2022. A total of 89 participants (18 Members States, three Observers and Invited Experts) attended the Session.
36. The 19th Session of the Compliance Committee (CoC) of the Indian Ocean Tuna Commission (IOTC) was held in hybrid format (limited in person and videoconference), from 8 - 10 May 2022. 25 Contracting Parties (Members), 11 Observers and Invited Experts participated in the meeting.
37. The VMSWG, CDSWG, WPICMM and CoC meetings were facilitated by the Secretariat's Compliance team. [Appendix 3](#) lists the documents produced by the IOTC Secretariat in support of the VMSWG, CDSWG, WPICMM and CoC meetings.

Other meetings

38. Staff members of the Compliance Section also participated in a number of virtual meetings throughout 2022. The number of virtual meetings that compliance staff were invited to contribute to or expected to attend were more or less on par with 2021 the level. The range of time zones over which many of these meetings took place meant that staff members often had to give up their own time to participate.

Compliance related activities

39. 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 17,000 records were processed during

2022; this includes the addition, deletion and updating the history of vessels in the record. This represents a 33% increase over the number of records processed in the previous year. Substantial work has gone into encouraging CPCs to submit information on the reporting new requirements introduced in Resolution 19/04.

40. 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 2022 a total of 4,277 records of active vessels were processed: representing an increase of about 18% over the previous year. These included both vessels reported by flag States and foreign vessels reported by coastal States under licensing agreements.
41. The impact of COVID-19 pandemic on the Regional Observer Programme (ROP) to monitor transshipments at sea for large-scale tuna longline vessels eased very early in 2022; all approved carrier vessels' deployments were observed. The contract with the ROP Consortium was extended in May 2022, to cover the period May 2022 to April 2023. Since this was the last possible extension of the contract, staff of the Compliance Section with the support of the FAO Procurement Office, prepared and submitted a new Contract Service Request, which formed the basis for the tender launched in the UNGM website.
42. Further details of the new contract extension are provided in paragraph 37 of document [IOTC-2023-SCAF20-06](#).

Capacity building activities: Compliance Support Missions

43. **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. Two in-person and three virtual follow-up Compliance Support Mission were conducted 2022.

Capacity building activities: Training in Port State Measures

44. 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 on 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. Eight missions (one virtual and seven in person) were undertaken to train inspectors/government officials during 2022.

Capacity building activities: Professional internship programme

45. The IOTC Professional Internship Programme was launched with the support of the SWIOFISH 2 Project. The programme provides selected professionals with the opportunity to supplement their working knowledge with practical work assignments in a field related to the work and mandate of the IOTC Secretariat. This enables them to gain a better understanding of IOTC's mandate and work programmes. At the same time, the Programme provides the IOTC Secretariat with the assistance of qualified individuals specializing in relevant fisheries management fields.
46. An internship assignment is for a duration of three months and the intern is assigned to different fields of work according to his/her profile and to the needs of the IOTC Secretariat. The following countries have benefited from the internship programme:
- Mozambique: 1 September to 30 November 2019, and attendance of CoC19 in 2022;
 - Comoros: 1 to 17 March 2020 (internship was interrupted in April due to the COVID-19 pandemic) and 18 August to 31 October 2022. He is expected to attend CoC20 in May 2023.

Funding of Compliance related activities

47. Funding for these activities is being provided through cooperation with several initiatives, following presentation of the capacity building initiatives to potential financing agencies. Table 1 summarises all the missions relating to compliance, including those undertaken by consultants supported by the IOC-SWIOFish 2 (World Bank) Project.
48. The IOTC Secretariat received financing from the World Bank Project (SWIOFish 2) administered by 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 2022.

FUNCTIONAL AREA 4.4 COMMUNICATIONS AND PUBLIC INFORMATION

49. 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 4.5 INFORMATION TECHNOLOGY

50. The provision of computer infrastructure, including maintenance of the network and servers, as well as internet support continued to be provided by a consultant paid partially under the provisions of the Headquarters Agreement. These services were also extended to general meeting support and IOTC website maintenance.
51. The IT local infrastructure and all equipment was transferred to the new IOTC offices in the Abis Centre, Providence, at the start of 2022. New electrical and data lines were installed throughout the offices and a purpose-built IT room was installed. The transfer went extremely well with only a minimum downtime of a few hours for most services.
52. In April 2022, the IOTC website sustained a prolonged and intensive attack involving millions of access requests over several days just prior to the annual Commission meeting. This resulted in access to the website for many legitimate persons being delayed or timed out; and access to meeting documents not being as straight forward as normal. The Secretariat upgraded its defence software and eventually overcame the attack.
53. Equipment purchases included new desktop computers, new laptops and new UPS system components. Some network components were also purchased to set up the new offices. Asset control mechanisms remain in place and continue to be monitored carefully.
54. The Internet bandwidth is currently at a satisfactory level and is being monitored carefully, as online services and virtual meetings increase. The IOTC internet capacity is currently provided on a dedicated (individual) connection and the bandwidth requirements will be closely assessed again in 2023 in the search for future improvements.
55. The Secretariat now has a range of up-to-date equipment for virtual meetings. The meeting room in the new offices offers a smaller but adequate space with a SMART television connected to a high-definition camera and quality audio equipment and this has been used very frequently since the move.
56. Some technical improvements/modifications were made to the IOTC website after consultation with users and the webpages were updated.

Table 1. Missions undertaken by staff from the IOTC Secretariat during 2022 in relation with capacity building activities.

Country	Date	Staff	Description
Science and data			
Madagascar – by videoconference	March 2022	IOTC Data Assistant, IOTC Compliance Expert, Representatives from Madagascar	Support mission led by the Compliance Section of the Secretariat (with participation from the Data Section) to address some of the outstanding issues in terms of data collection and reporting identified for the county. The activities delivered include: <ul style="list-style-type: none"> i. General overview of IOTC; ii. Introduction to the main data collection and reporting requirements; iii. Discussion on the methodology of current sampling activities funded by World Bank; iv. Discussions on the inconsistencies detected between the various data sources leveraged by Madagascar.
Comoros – by videoconference	March 2022	IOTC Data Assistant, IOTC Compliance Expert, Representatives from Comoros	Support mission led by the Compliance Section of the Secretariat (with participation from the Data Section) to address some of the outstanding issues in terms of data collection and reporting identified for the county. The activities delivered include: <ul style="list-style-type: none"> i. General overview of IOTC; ii. Introduction to the main data collection and reporting requirements; iii. Discussion on quality of data submitted by Comoros; iv. Discussions on the inconsistency between the types of fisheries known to existing in Comoros and the information submitted to the IOTC Secretariat, with a view of revising historical data.
FAO – INFOFISH – by videoconference	September 2022	IOTC Fishery Officer (data) IOTC Data assistant	FAO Workshop on Fisheries Data Collection and Statistics (Africa, Mediterranean, Middle East): <ul style="list-style-type: none"> i. Discussion on various data collection systems in Africa, Mediterranean, and Middle East, including their setbacks and way forward to improve the current state-of-the-art; ii. IOTC data requirements and the capability of the CPCs to report data based on these.

European Union – by videoconference	June and September 2022	IOTC Fishery Officer (data)	<p>Annual meeting of the Regional Coordination Group on Large Pelagic (RCGLP):</p> <ol style="list-style-type: none"> i. Presentation of the status of data reported to IOTC by EU member fleets for the previous statistical year; ii. Revision of compliance status on data related requirements by CMMs, identifying potential issues and providing support for the improvement of future data submission to the Secretariat. <p>EU Liaison Meeting:</p> <ol style="list-style-type: none"> i. Presentation of the current state of preliminary data reported to IOTC by EU members' fleets; ii. Revision of IOTC data requirements, identification of issues and provision of support for the improvement of data submissions to the Secretariat.
Indonesia – Jakarta and Bali	July 2022	<p>IOTC SC Chair IOTC Data Coordinator IOTC Fishery Officer (data) IOTC Data Assistant FAO Capture Fishery Statistician</p> <p>Representatives from:</p> <ul style="list-style-type: none"> • Ministry of Marine Affairs and Fisheries of Indonesia • National research institutions • IPNLF 	<p>Continuation on the previous remote meetings held in 2021, to discuss the current state-of-the-art in terms of re-estimation procedures for Indonesia's annual catches.</p> <p>The main activities of the missions were:</p> <ol style="list-style-type: none"> i. Recall the reasons that led the IOTC Scientific Committee to request for a revision of Indonesia's artisanal catches; ii. Present the rationale of these re-estimations, including their more recent revisions; iii. Present the results of the re-estimations compared to official catch data for the period 2010-2020; iv. Discuss about past issues affecting data collection and reporting in Indonesia and how these have been or could be resolved; Assess the extent of the improvements in data collection and reporting introduced by the <i>One Data</i> initiative; v. Assess the methodology used to estimate industrial and coastal fisheries catch data.

Indonesia – Jakarta	November 2022	IOTC Data Coordinator IOTC Fishery Statistician IOTC Data assistant Representatives from: <ul style="list-style-type: none"> Ministry of Marine Affairs and Fisheries of Indonesia national research institutions IPNLF 	Follow-up to the mission conducted in July 2022 to further review and assess the progress in the re-estimation procedures proposed by Indonesia for their annual catches. The main activities of the mission were: <ol style="list-style-type: none"> Review and assess the methodologies leading to the latest catch estimation procedure proposed by Indonesia, which include revisions of catch series from 2010 to 2020, and comparing the results with current data from 1-RC forms and from IOTC re-estimations; Analyse the logbook and port sampling data collected for various Indonesian's fisheries, and assess their level of coverage and suitability for inclusion in the re-estimation procedure; Review the availability of shark data collected for Indonesian coastal fisheries, to corroborate the re-estimated level of catches for all sharks' species.
Compliance			
Sri Lanka (by videoconference)	25 August 2022	Compliance Manager	Training on completion of data reporting templates for Resolution 01/06 – <i>Bigeye Tuna Statistical Document Programme</i>
Kenya	20-22 September 2022	SWIOFish 2 Project staff – Compliance Expert	Follow-up Compliance Support Mission
Tanzania	27-30 September 2022	SWIOFish 2 Project staff – Compliance Expert	Follow-up Compliance Support Mission
Seychelles	27, 28, 30 June 2022	Compliance Coordinator Compliance Officer	Training of government officials of the Seychelles Fishing Authority on the use of the Offline port inspection report (PIR) application of the e-PSM application Delivery of tablets to the SFA enforcement division for use of the e-PSM offline PIR application.
Port Louis, Mauritius	16 - 21 June, 2022	Compliance Coordinator Compliance Officer	Training of government officials of the Port State Control Unit (PSCU) on the use of the Offline port inspection report (PIR) application and the e-PSM online platform. Training of PSCU officials on the port State inspection procedures included in the IOTC PSM manual and outlined in Resolution 16/11. Special focus was put on the monitoring of the landing and transhipping of catches in port. Delivery of inspection kits to improve port inspection material means and of tablets for completing and sharing digitally port

			inspection reports through the offline PIR application and the e-PSM platform.
Durban & Cap Town, South Africa	11 – 18 September 2022	Compliance Coordinator Compliance Officer	<p>Training of government officials of the Department of Forestry, Fisheries & the Environment, on the use of the offline port inspection report (PIR) application and the e-PSM online platform.</p> <p>Training of DFFE officials on the port State inspection procedures included in the IOTC PSM manual and outlined in Resolution 16/11. Special focus was put on the inspection of foreign vessels in port.</p> <p>Delivery of inspection kits to improve port inspection material means and of tablets for completing and sharing digitally port inspection reports through the offline PIR application and the e-PSM platform.</p>
Port Louis, Mauritius,	27 – 28 October 2022	Compliance Coordinator	<p>Training of Mauritius government officials of the Port State Control Unit (PSCU), on the use of the Module 3 on reporting to extract PSM data from the e-PSM online platform.</p>
Antsiranana, Madagascar	31 October – 1 November 2022	Compliance Coordinator	<p>Training of Malagasy government officials of the 'Centre de Surveillance des pêches (CSP)' on the use of the Offline port inspection report (PIR) application and the e-PSM online platform.</p> <p>Delivery of inspection kits to improve port inspection material means and of tablets for completing and sharing digitally port inspection reports through the offline PIR application and the e-PSM platform.</p>
Maputo, Mozambique	08-11 November 2022	Compliance officer	<p>Training of government officials of the INAMAR on the use of the offline port inspection report (PIR) application and the e-PSM online platform.</p> <p>Training of INAMAR officials on the port State inspection procedures included in the IOTC PSM manual and outlined in Resolution 16/11. Special focus was put on the inspection of foreign vessels in port.</p> <p>Delivery of inspection kits to improve port inspection material means and of tablets for completing and sharing digitally port inspection reports through the offline PIR application and the e-PSM platform.</p>
Maldives by videoconference	20-21 November, 2022	Compliance officer	<p>Training of Maldives government officials on the use of the Offline port inspection report (PIR) application and the e-PSM online platform.</p>

Malaysia	22-24 November 2022	Compliance Coordinator	<p>Training of government officials on the use of the offline port inspection report (PIR) application and the e-PSM online platform.</p> <p>Delivery of inspection kits to improve port inspection material means and of tablets for completing and sharing digitally port inspection reports through the offline PIR application and the e-PSM platform.</p>
Thailand	28-29 November 2022	Compliance Coordinator	<p>Training of government officials on the use of the offline port inspection report (PIR) application and the e-PSM online platform.</p> <p>Delivery of inspection kits to improve port inspection material means and of tablets for completing and sharing digitally port inspection reports through the offline PIR application and the e-PSM platform.</p>

FUNCTIONAL AREA 4.6 ADMINISTRATION

Administrative Staff

57. 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) – Retired 30 November 2022
- IT System Manager (consultant)

58. The Administrative Unit was fully staffed in 2022.

Activities of the IOTC Administrative Unit

59. 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 2022

60. The FAO Administrative Guidelines v8 were introduced in 2022 which included a range of measures aimed at helping to deal with the issues encountered during the COVID-19 pandemic. These included more flexible work arrangements, clearer travel rules and more flexibility concerning the rules for recruiting project consultants.
61. The TALEO recruitment system continues to ensure a more effective and transparent recruitment process from the screening of candidates to the final selection. It also provides an online repository and fast access to HR records.
62. FAO introduced 'Service Now', a new online portal for all service requests. The portal deals with all requests through HQ and the FAO Shared Services Centre as well as IT queries and is linked to Service Level Agreements with the aim of improving response times.

5) SUGGESTED ACTION BY THE STANDING COMMITTEE ON ADMINISTRATION AND FINANCE

That the SCAF:

- a) **NOTE** paper IOTC-2023-SCAF20-02 which provides the SCAF with an update on the activities of the IOTC Secretariat in 2022.

APPENDIX 1
2022: CALENDAR OF IOTC MEETINGS

Meeting	Date
Vessels Monitoring System Working Group (VMSWG)	25 January
Catch Document Scheme Working Group (CDSWG)	14-15 February
Working Party on Implementation of Conservation and Management Measures (WPICMM)	16-18 February
MSE Task Force	7-10 March
Working Party on Temperate Tunas (WPTmT) Data preparatory meeting	13-15 April
Compliance Committee (CoC)	8-10 May
Standing Committee on Administration and Finance (SCAF)	11 May
Report adoption: CoC (am) / SCAF (pm)	12 May
Technical Committee on Management Procedures (TCMP)	13-14 May
Commission (S26)	16-20 May
Working Party on Tropical Tunas – data preparation (WPTT-DP)	30 May – 3 June
Working Group on Electronic Monitoring Standards (WGEMS)	13 – 15 June
Technical Committee on Allocation Criteria (TCAC) 1 st meeting	20-23 June
Working Party on Neritic Tunas (WPNT)	4-8 July
Working Party on Temperate Tunas (WPTmT)	25-29 July
Working Party on Ecosystems and Bycatch (WPEB)	5-9 September
Working Party on Billfish (WPB)	12-15 September
Ad hoc Working Group on FADs (WGFAD)	3-5 October
Technical Committee on Allocation Criteria (TCAC) 2 nd meeting	10-13 October
Working Party on Methods (WPM)	19-21 October
Working Party on Tropical Tunas (WPTT)	24-29 October
Working Party on Data Collection and Statistics (WPDCS)	29 November – 3 December
Scientific Committee (SC)	5-9 December

APPENDIX 2
LIST OF MEETING CHAIRS IN 2022

Meeting			CPC/Affiliation	Starting	Ending	Term
Commission (S)	Chair	Ms Jung Re Kim	Rep. of Korea	2021	2023	1
	1 st Vice-Chair	Mr Adam Ziyad	Maldives	2021	2023	1
	2 nd Vice-Chair	Mr Qayiso Mketsu	South Africa	2021		
Compliance Committee (CoC)	Chair	Dr. Indra Jaya	Indonesia	2022	2024	1
	Vice-Chair	Mr Zahor El Kharousy	Tanzania, United Rep. of	2022	2024	1
Scientific Committee (SC)	Chair	Dr Toshihide Kitakado	S. Africa	2019	2023	2
	Vice-Chair	Dr Denham Parker	Japan	2019	2023	2
Standing Committee on Administration and Finance (SCAF)	Chair	Mr Hussain Sinan	Maldives	2018	2023	2
	Vice-Chair	Mr Muhammad Farhan Khan	Pakistan	2018	2023	2
Technical Committee on Allocation Criteria (TCAC)	Chair	Ms Nadia Bouffard	Independent	2020	-	-
Technical Committee on Management Procedures (TCMP)	Co-Chairs	Commission and SC Chairs	-	-	-	-
Technical Committee on Performance Review TCPR	Chair	-	-	-	-	
Working Party on Billfish (WPB)	Chair	Dr Denham Parker	S. Africa	2019	2023	2
	Vice-Chair	Dr Jie Cao	China	2019	2023	2
Working Party on Data Collection and Statistics WPDSCS	Chair	Dr Julien Barde	EU, France	2021	2023	1
	Vice-Chair	Mr Nuwan Gunawardane	Sri Lanka	2021	2023	1
Working Party on Ecosystems and Bycatch WPEB	Chair	Dr. Mariana Tolotti	EU,France	2021	2023	1
	Vice-Chair	Dr. Mohamed Koya	India	2021	2023	1
	2 nd Vice-Chair	Dr Charlene da Silva	South Africa	2021	2023	1
Working Party on Implementation of Conservation and Management Measures (WPICMM)	Chair	Mr Benedict Kiilu	Kenya	2023	2025	2
	Vice-Chair	Mr Hiroyuki Morita	Japan	2022	2024	1

Working Party on Methods (WPM)	Chair	Dr Hilario Murua	ISSF	2019	2023	2
	Vice-Chair	Vacant				
Working Party on Neritic Tunas (WPNT)	Chair	Ms Ririk Sulistyarningsih	Indonesia	2019	2023	2
	Vice-Chair	Dr Farhad Kaymaram	I.R. Iran	2019	2023	2
Working Party on Temperate Tunas (WPTmT)	Chair	Dr Toshihide Kitakado	Japan	2022	2028	1
	Vice-Chair	Dr Jiangfeng Zhu	China	2022	2028	1
Working Party on Tropical Tunas (WPTT)	Chair	Dr Gorka Merino	EU, Spain	2018	2023	2
	Vice-Chair	Dr Shiham Adam	IPNLF	2018	2023	2
Catch Documentation Scheme Working Group (CDSWG)	Chair	Dr Indra Jaya	Indonesia	2021	2023	1
Ad hoc Working Group on Electronic Monitoring Standards (WGEMS)	Chair	Dr Hilario Murua	ISSF	2021	2023	1
	Vice-Chair	Dr Don Bromhead	Australia	2021	2023	1
Ad hoc Working Group on FADs (WGFAD)	Co-Chair	Dr Gorka Merino	EU, Spain	2021	2023	1
	Co-Chair	Mr Avelino Munwane	Mozambique	2022	2024	1
Vessel Monitoring System Working Group (VMSWG)	Chair	Mr Stephen Ndegwa	Kenya	Nominated for the duration of the Working Group.		
	Vice-Chair	Mr. Shoukot Chowdhury	Bangladesh	2023	2025	1
Management Strategy Evaluation Task Force	Chair	WPM Chair				

APPENDIX 3
LIST OF DOCUMENTS PRODUCED BY IOTC SECRETARIAT STAFF IN 2022

26th Session of the Commission

IOTC-2022-S26-01a	Provisional agenda for S26 (v17 March).
IOTC-2022-S25-01b	Provisional agenda for S26 (v17April).
IOTC-2022-S26-01c	Provisional agenda for S26 (v16May)
IOTC-2022-S26-02	Progress on the requests for action made to the Secretariat.
IOTC-2022-S26-03	Regarding the procedure for the selection and appointment of the IOTC Executive Secretary
IOTC-2022-S26-03_add1	Regarding the development of a proposal for a permanent procedure to select the Executive Secretary
IOTC-2022-S26-06	Conservation and management measures that include a reference to the year 2022.
IOTC-2022-S26-07	Review of objections received under Article IX.5 of the IOTC Agreement.
IOTC-2022-S26-08	IOTC collaborative arrangements — an overview
IOTC-2022-S26-09	Proposed Letter of Intent between IOTC and the International Whaling Commission (IWC).
IOTC-2022-S26-10	Proposed MOU between IOTC and the Overseas Fishery Cooperation Foundation of Japan (OFCF Japan).
IOTC-2022-S26-11	Proposed MOU between IOTC and the Southern Indian Ocean Fisheries Agreement (SIOFA).
IOTC-2022-S26-R	Meeting report

Compliance Committee

IOTC-2022-CoC19-01a	Provisional Agenda for the Nineteenth Session of the Compliance Committee
IOTC-2022-CoC19-01b_Rev1	Provisional Annotated Agenda for the Nineteenth Session of the Compliance Committee
IOTC-2022-CoC19-02_Rev2	List of documents for the Nineteenth Session of the Compliance Committee
IOTC-2022-CoC19-03_Rev1	Summary report on the level of compliance
IOTC-2022-CoC19-04a	Report on Transshipment Resolution 21/02 – Secretariat’s Report
IOTC-2022-CoC19-04b	A Summary of the IOTC Regional Observer Programme during 2021 – Contractor’s Report
IOTC-2022-CoC19-05	Implementation of reporting obligations of nominal catch data (IOTC Resolution 18/07)
IOTC-2022-CoC19-06	Progress reports on the development of a scheme to operationalise the FAO voluntary guidelines on the marking of fishing gear & FADs
IOTC-2022-CoC19-06_Add1	Operationalisation of FAO Voluntary Guidelines for the Marking of Fishing Gear in the IOTC Area of Competence
IOTC-2022-CoC19-07a	Reporting of vessels in transit - United Kingdom
IOTC-2022-CoC19-07b	Summary report on possible infractions observed under the Regional Observer Programme in 2021
IOTC-2022-CoC19-07c	Project to estimate illegal fishing in the Indian Ocean Basin - Australia
IOTC-2022-CoC19-07d_Rev1	Complementary elements for discussion under item 6 of the agenda for the Compliance Committee

IOTC-2022-CoC19-07d_Add1	Additional information from the United Kingdom concerning five vessels mentioned in document IOTC-2022-CoC19-07d
IOTC-2022-CoC19-07d_Add2	Additional information from China
IOTC-2022-CoC19-08	The IOTC Draft IUU Vessels List
IOTC-2022-CoC19-08_Add1	Additional information from the United Kingdom concerning three vessels in the current IOTC IUU Vessels List and four vessels on the 2022 IOTC Draft IUU Vessels List
IOTC-2022-CoC19-09_Rev1	Implementation of Recommendations from CoC18 & S25
IOTC-2022-CoC19-09_Add1	Advice from FAO LEG on adoption of a HSBIS
IOTC-2022-CoC19-10	Summary of Compliance with the drifting Fish Aggregating Devices Management Plans
IOTC-2022-CoC19-10_Add1	Collection of drifting Fish Aggregating Devices Management Plans
IOTC-2022-CoC19-11_Rev2	Summary report on Compliance Support Activities
IOTC-2022-CoC19-12	Progress reports of the WPICMM, CDSWG & VMSWG.
IOTC-2022-CoC19-13	Summary of the implementation process and the progress of the legal scrubbing of the IOTC Resolutions
IOTC-2022-WPICMM05-11	Analyses of beneficial owners' information of authorised vessels
IOTC-2022-CDSWG	Reports from meetings of the IOTC Catch Documentation Scheme Working Group (CDSWG)
IOTC-2022-VMSWG	Reports from meetings of the IOTC Vessel Monitoring System Working Group (VMSWG)
IOTC-2022-WPICMM05-R_Rev1	Report of the Fifth Session of the IOTC Working Party on the Implementation of Conservation and Management Measures (WPICMM05)
IOTC-2022-WPICMM05-05_Rev1	WPICMM Work Plan ENDORSED by WPICMM05
IOTC-2022-CoC19-CR01_Rev1	Australia
IOTC-2022-CoC19-CR02_Rev1	Bangladesh
IOTC-2022-CoC19-CR03_Rev2	China
IOTC-2022-CoC19-CR04	Comoros
IOTC-2022-CoC19-CR05	Eritrea
IOTC-2022-CoC19-CR06	European Union
IOTC-2022-CoC19-CR07	France (OT)
IOTC-2022-CoC19-CR08	India
IOTC-2022-CoC19-CR09	Indonesia
IOTC-2022-CoC19-CR10	Iran, Islamic Republic of
IOTC-2022-CoC19-CR11	Japan
IOTC-2022-CoC19-CR12	Kenya
IOTC-2022-CoC19-CR13	Korea, Republic of
IOTC-2022-CoC19-CR14	Madagascar
IOTC-2022-CoC19-CR15	Malaysia
IOTC-2022-CoC19-CR16	Maldives
IOTC-2022-CoC19-CR17_Rev1	Mauritius
IOTC-2022-CoC19-CR18	Mozambique
IOTC-2022-CoC19-CR19_Rev1	Oman
IOTC-2022-CoC19-CR20	Pakistan
IOTC-2022-CoC19-CR21	Philippines

IOTC-2022-CoC19-CR22_Rev1	Seychelles
IOTC-2022-CoC19-CR23	Somalia
IOTC-2022-CoC19-CR24	South Africa
IOTC-2022-CoC19-CR25	Sri Lanka
IOTC-2022-CoC19-CR26	Sudan
IOTC-2022-CoC19-CR27_Rev1	Tanzania, United Republic of
IOTC-2022-CoC19-CR28	Thailand
IOTC-2022-CoC19-CR29_Rev3	United Kingdom
IOTC-2022-CoC19-CR30	Yemen
IOTC-2022-CoC19-R	Meeting report

Scientific Committee

IOTC-2022-SC25-03	Outcomes of the 26th Session of the Commission (IOTC Secretariat)
IOTC-2022-SC25-04	Previous decisions of the Commission (IOTC Secretariat)
IOTC-2022-SC25-05	Report of the Secretariat – Activities in support of the IOTC science process in 2022 (IOTC Secretariat)
IOTC-2022-SC25-06	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-2022-SC25-07	Update on the implementation of the regional observer scheme (IOTC Secretariat)
IOTC-2022-SC25-08	Revision of the program of work (2023–2027) for the IOTC science process (IOTC Secretariat)
IOTC-2022-SC25-09	Proposed schedule of Working Party and Scientific Committee meetings for 2023 and 2024 (IOTC Secretariat)
IOTC-2022-SC25-10	Progress on SC24 recommendations (IOTC Secretariat)
IOTC-2022-SC25-R	Meeting report

Standing Committee on Administration and Finance

IOTC-2022-SCAF19-01b	Draft agenda for SCAF19
IOTC-2022-SCAF19-02	Report of the IOTC Secretariat on the year 2021
IOTC-2022-SCAF19-03	Progress on requests for action made by the SCAF in 2021
IOTC-2022-SCAF19-04	Financial Statement for 2021
IOTC-2022-SCAF19-05	Contributions Outstanding
IOTC-2022-SCAF19-06	IOTC Meeting Participation Fund
IOTC-2022-SCAF19-07	Mid-Term Financial report 2022
IOTC-2022-SCAF19-08	Provisional Program of work and budget for 2023 (and Indicative Budget for 2024)
IOTC-2022-SCAF19-R	Meeting report

Technical Committee on Allocation Criteria

IOTC-2022-TCAC10-01	Draft Agenda v24May
IOTC-2022-TCAC10-R	Meeting Report

Technical Committee on Management Procedures

IOTC-2022-TCMP05-01a	Draft: Agenda of the 5 th Technical Committee on Management Procedure Meeting
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IOTC-2022- TCMP05-01b	Draft: Annotated agenda of the 5 th Technical Committee on Management Procedure Meeting
IOTC-2022- TCMP05-02	Draft: List of documents of the 5 th Technical Committee on Management Procedure (TCMP05)
IOTC-2022- TCMP05-03	Outcomes of the 4 th Technical Committee On Management Procedure
IOTC-2022- TCMP05-04	Outcomes of the 25 th Session of the Commission
IOTC-2022- TCMP05-05	Outcomes of the 24 th Session of the Scientific Committee
IOTC-2022- TCMP05-R	Meeting Report

Working Party on Billfish

IOTC-2022-WPB20-03	Outcomes of the 24th Session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPB20-04	Outcomes of the 26th Session of the Commission (IOTC Secretariat)
IOTC-2022-WPB20-05	Review of Conservation and Management Measures relevant to billfish (IOTC Secretariat)
IOTC-2022-WPB20-06	Progress made on the recommendations and requests of WPB19 and SC24 (IOTC Secretariat)
IOTC-2022-WPB20-07	
IOTC-2022-WPB20-07a-e	Review of the statistical data and fishery trends for billfish species (IOTC Secretariat)
IOTC-2022-WPB20-R	Meeting report

Working Party on Data Collection and Statistics

IOTC-2022-WPDCS18-03	Outcomes of the 24th session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPDCS18-04	Outcomes of the 26th session of the Commission (IOTC Secretariat)
IOTC-2022-WPDCS18-05	Review of current Conservation and Management Measures relating to the WPDCS (IOTC Secretariat)
IOTC-2022-WPDCS18-06	Progress on the recommendations of WPDCS17 (IOTC Secretariat)
IOTC-2022-WPDCS18-07	Report on IOTC Data Collection and Statistics (IOTC Secretariat)
IOTC-2022-WPDCS18-08	IOTC capacity building activities in support of developing coastal CPCs (IOTC Secretariat)
IOTC-2022-WPDCS18-09	Revision of the WPDCS Program of Work 2023-2027 (IOTC Secretariat)
IOTC-2022-WPDCS18-10	Updates on the implementation of the IOTC Regional Observer Scheme and its pilot project (IOTC Secretariat)
IOTC-2022-WPDCS18-11	Updated calculations of yellowfin tuna catch limits for 2022 / 2023 (IOTC Secretariat)
IOTC-2022-WPDCS18-12	Summary of updates on data-related requests from other Working Parties (IOTC Secretariat)
IOTC-2022-WPDCS18-13	Proposed updates to the definitions of fisheries in support to the reporting of statistical data to the IOTC (IOTC Secretariat)
IOTC-2022-WPDCS18-14	Improvements to the IOTC recommended data reporting forms (IOTC Secretariat)
IOTC-2022-WPDCS18-15	Draft revision of IOTC data reporting guidelines (IOTC Secretariat)
IOTC-2022-WPDCS18-16	Results of the implementation of the Small-Scale Fisheries matrix approach to selected IOTC fisheries (IOTC Secretariat)
IOTC-2022-WPDCS18-17	Finalized ROS data collection and reporting forms (IOTC Secretariat)
IOTC-2022-WPDCS18-24	Metadata for fisheries: ongoing work, examples and outlooks (J. Barde, S. Poulain, E. Chassot, F. Fiorellato, E. Blondel, B. Grasset)
IOTC-2022-WPDCS18-25	The yearly updates of the Global Tuna Atlas and the necessity to share conversion factors datasets (B. Grasset, J. Barde, E. Chassot)
IOTC-2022-WPDCS18-30	Note on the collaboration of the Secretariat with international partners on data-related matters (IOTC Secretariat)

IOTC-2022-WPDCS18-R	Meeting Report
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Working Party on Ecosystems and Bycatch

IOTC-2022-WPEB18-03	Outcomes of the 24th Session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPEB18-04	Outcomes of the 26th Session of the Commission (IOTC Secretariat)
IOTC-2022-WPEB18-05	Review of Conservation and Management Measures relevant to ecosystems and bycatch (IOTC Secretariat)
IOTC-2022-WPEB18-06	Progress made on the recommendations and requests of WPEB17 and SC24 (IOTC Secretariat)
IOTC-2022-WPEB18-07	Review of the statistical data and fishery trends for ecosystems and bycatch species (IOTC Secretariat)
IOTC-2022-WPEB18-08	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-2022-WPEB18-09	Revision of the WPEB Program of Work (2023–2027) (IOTC Secretariat & Chairperson)
IOTC-2022-WPEB18-22	Second IOTC Ecoregion Workshop: identification of regions in the IOTC convention area to inform the implementation of the ecosystem approach to fisheries management (M. J. Juan Jordá, A. E. Nieblas, H. Murua, E. Chassot, P. de Bruyn, D. Hayes, F. Marsac, U. Shahid, P. Thoya, S. Tsuji, E. Andonegi, M. Green, T. Kitakado, L. Nelson, M. Khan, L. Ramos Alonso, J. Moss, L. Lopetegui, Z. Hoque, L. Pierre, A. Sheikh)
IOTC-2022-WPEB18-INF11	Report of the multi-taxa gillnet bycatch mitigation workshop (Shahid U et al. and IOTC Secretariat)
IOTC-2022-WPEB18-INF14	Pre-workshop analysis in preparation for the 2022 IOTC Ecoregions Workshop: "Identification of regions in the IOTC convention area to inform the implementation of the ecosystem approach to fisheries management" (A. E. Nieblas, H. Murua, P. De Bruyn, E. Chassot, F. Fiorellato, M. J. Juan Jordá)
IOTC-2022-WPEB18-INF24	An overview of morphological data available on sharks at the IOTC Secretariat (Secretariat)
IOTC-2022-WPEB18-R	Meeting Report

Working Party on Implementation of Conservation and Management Measures

IOTC-2022-WPICMM05-01a_Rev2	Provisional Agenda v 24 01 2022
IOTC-2022-WPICMM05-01b_Rev1	Provisional Annotated Agenda v 24 01 2022
IOTC-2022-WPICMM05-02_Rev2	Draft list of Documents (v3)
IOTC-2022-WPICMM05-03	Progress report on the implementation of the WPICMM Work Plan and on the recommendations of the WPICMM04
IOTC-2022-WPICMM05-03_Add1	Review of the Terms of References for a comparative assessment of existing sanctioning systems in other organizations
IOTC-2022-WPICMM05-04	Report on possible infractions observed under the Regional Observer Programme in 2021
IOTC-2022-WPICMM05-04_Add1	Report on repeated possible infractions observed under the Regional Observer Programme in 2021
IOTC-2022-WPICMM05-04_Add2	Results of investigation received from the fleets on the possible infractions detected under the Regional Observer Programme (ROP) in 2021
IOTC-2022-WPICMM05-05	Review and update of the WPICMM Work Plan
IOTC-2022-WPICMM05-05_Rev1	WPICMM Work Plan Reviewed/Endorsed by WPICMM05
IOTC-2022-WPICMM05-06	Summary report on assessment criteria for the Compliance Report for CoC19
IOTC-2022-WPICMM05-06_Add1_Rev1	Assessment criteria for Compliance Report - Country Template for CoC19

IOTC-2022-WPICMM05-06_Add1_Rev1	Assessment criteria for Compliance Report - Country Template for COC19 - Reviewed/Endorsed by WPICMM05
IOTC-2022-WPICMM05-06_Add2	Country Compliance Report Template for CoC19
IOTC-2022-WPICMM05-06_Add2_Rev1	Country Compliance Report Template for CoC19 - Reviewed/Endorsed by WPICMM05
IOTC-2022-WPICMM05-07	Proposal to amend appendix V of the IOTC Rules of Procedure – European Union
IOTC-2022-WPICMM05-08	Progress of work and plan for 2022 of the Vessel Monitoring System (VMS) Working Group
IOTC-2022-WPICMM05-09	Progress of work and plan for 2022 of the Catch Documentation Scheme (CDS) Working Group
IOTC-2022-WPICMM05-10	Progress on the development of the e-MARIS application
IOTC-2022-WPICMM05-11	Analyses of beneficial owners information of authorised vessels
IOTC-2022-WPICMM05-12	Summary of the implementation process and the progress of the legal scrubbing of the IOTC Resolutions
IOTC-2022-WPICMM05-12_Add1	Legal scrubbing of IOTC Resolutions - Comments from CPCs
IOTC-2022-WPICMM05-13	Status of development of the IOTC scheme to operationalise the FAO voluntary guidelines on the marking of fishing gear
IOTC-2022-WPICMM05-13_Add1	Study report on the IOTC scheme to operationalise the FAO voluntary guidelines on the marking of fishing gear (Consultant's report)
IOTC-2022-WPICMM05-14_Rev3	Third revision: On the interpretation of Resolution 21-01
IOTC-2022-WPICMM05-R	Meeting Report

Working Party on Methods

IOTC-2022-WPM13(MSE)-07	Further evaluations of an empirical MP for Indian Ocean skipjack tuna (Edwards C)
IOTC-2022-WPM13(MSE)-R	Meeting Report
IOTC-2022-WPM13-03	Outcomes of the 24th Session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPM13-04	Outcomes of the 26th Session of the Commission (IOTC Secretariat)
IOTC-2022-WPM13-05	Review of Conservation and Management Measures relating to methods (IOTC Secretariat)
IOTC-2022-WPM13-06	Progress made on the recommendations and requests of WPM12 and SC24 (IOTC Secretariat)
IOTC-2022-WPM13-07	Revision of the WPM Program of Work (2023-2027) (IOTC Secretariat & Chairpersons)
IOTC-2022-WPM13-09	Presentations of empirical MPs for Indian Ocean skipjack tuna accounting for implementation error (Edwards C)
IOTC-2022-WPM13-R	Meeting Report

Working Party on Neritic Tunas

IOTC-2022-WPNT12-03	Outcomes of the 24th Session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPNT12-04	Outcomes of the 25th Session of the Commission (IOTC Secretariat)
IOTC-2022-WPNT12-05	Review of current Conservation and Management Measures relating to neritic tuna species (IOTC Secretariat)
IOTC-2022-WPNT12-06	Progress made on the recommendations and requests of WPNT11 and SC24 (IOTC Secretariat)
IOTC-2022-WPNT12-07	Review of the statistical data available for the neritic tuna species (IOTC Secretariat)
IOTC-2022-WPNT12-08	Revision of the WPNT Program of Work (2022-2026) (IOTC Secretariat)
IOTC-2022-WPNT12-INF02	Longtail tuna synopsis
IOTC-2022-WPNT12-INF03	Bullet tuna synopsis

IOTC-2022-WPNT12-INF04	Frigate tuna synopsis
IOTC-2022-WPNT12-R	Meeting Report

Working Party on Temperate Tunas

IOTC-2022-WPTmT08(DP)-03	Outcomes of the 24 th Session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPTmT08(DP)-04	Outcomes of the 25 th Session of the Commission (IOTC Secretariat)
IOTC-2022-WPTmT08(DP)-05	Review of Conservation and Management Measures relevant to temperate tuna (IOTC Secretariat)
IOTC-2022-WPTmT08(DP)-06	Progress made on the recommendations of WPTmT07 (IOTC Secretariat)
IOTC-2022-WPTmT08(DP)-07	Review of the statistical data and fishery trends for albacore (IOTC Secretariat)
IOTC-2022-WPTmT08(DP)-17	A review of the data availability, model configuration and parameterization of the 2019 Indian Ocean albacore tuna (<i>Thunnus alalunga</i>), stock assessment in the Indian Ocean. (Rice J)
IOTC-2022-WPTmT08(DP)-R	Meeting Report
IOTC-2022-WPTmT08-03	Revision of the WPTmT Program of Work (2020-2024) (IOTC Secretariat)
IOTC-2022-WPTmT08-04	Overview of Indian Ocean albacore fisheries (Secretariat)
IOTC-2022-WPTmT08-06_Rev2	Preliminary analysis of the variability in the length-weight relationship of Indian Ocean albacore (IOTC Secretariat, R.-F. Wu, J. Zhu, T. Nishida, S. Bonhommeau, T. Kitakado, S. Hoyle)
IOTC-2022-WPTmT08-09	Stock assessment of albacore tuna (<i>Thunnus alalunga</i>) in the Indian Ocean using Stock Synthesis (Rice J)
IOTC-2022-WPTmT08-R	Meeting report

Working Party on Tropical Tunas

IOTC-2022-WPTT24(DP)-03	Outcomes of the 24 th Session of the Scientific Committee (IOTC Secretariat)
IOTC-2022-WPTT24(DP)-04	Outcomes of the 25 th Session of the Commission (IOTC Secretariat)
IOTC-2022-WPTT24(DP)-05	Review of Conservation and Management Measures relevant to tropical tuna (IOTC Secretariat)
IOTC-2022-WPTT24(DP)-06	Progress made on the recommendations of WPTT23 (IOTC Secretariat)
IOTC-2022-WPTT24(DP)-07 – BET	
IOTC-2022-WPTT24(DP)-07 – TROPICALS	Review of bigeye tuna statistical data (IOTC Secretariat)
Overview of Indian Ocean tropical tuna fisheries	
IOTC-2022-WPTT24(DP)-16	Assessing the impact of the growth on estimates of fishing mortality for the Indian Ocean bigeye tuna (Fu D)
IOTC-2022-WPTT24(DP)-17	Proposed natural mortality ogives for the Indian Ocean bigeye tuna stock assessment (Hoyle S)
IOTC-2022-WPTT24(DP)-18	A preliminary report on Estimates of fecundity, age at maturity, sex ratios, spawning season, and spawning fraction for bigeye tuna to be provided to the Working Party on Tropical Tunas. (Zudaire I, Artetxe-Arrate I, Farley J, Murua H, Kukul D, Vidot A, Abdul Razzaque S, Ahusan M, Romanov E, Eveson P, Clear N, Luque P, Fraile I, Bodin N, Chassot E, Govinden R, Ebrahim A, Shahid U, Marsac F and Merino G)
IOTC-2022-WPTT24(DP)-19	Analysis of recruitment deviates of tropical tuna stock assessments (Merino, G., A. Urtizberea, D. Fu, H. Winker, M. Cardinale, M.V. Loretta, H. Murua, T. Kitakado, H. Arrizabalaga, R. Scott, G. Pilling, C. Minte-Vera, H. Xui, A. Laborda, M. Erauskin-Extraminiana, A. Uriarte, J. Santiago)
IOTC-2022-WPTT24(DP)-R	Meeting Report

IOTC-2022-WPTT24-03	Review of the statistical data and fishery trends for (a) tropical tunas (b) bigeye tuna (c) skipjack tuna and (d) yellowfin tuna. (IOTC Secretariat)
IOTC-2022-WPTT24-04	Fisheries Indicators for Indian Ocean tropical tuna (Secretariat)
IOTC-2022-WPTT24-05	Revision of the WPTT Program of Work (2023-2027) (IOTC Secretariat)
IOTC-2022-WPTT24-10	Preliminary Indian Ocean bigeye tuna stock assessment 1950-2021 (stock synthesis) (Fu D, Merino G and Winker H)
IOTC-2022-WPTT24-11	Using data-limited approaches to assess data-rich Indian Ocean bigeye tuna: Data quantity evaluation and critical information for management implications (Li Y, Zhu J, Dai X, Dan F)
IOTC-2022-WPTT24-16	Approaches for estimating natural mortality in tuna stock assessments: application to global yellowfin tuna stocks (Hoyle S, Williams A, Minte-Vera C, Maunder M)
IOTC-2022-WPTT24-INF04	Natural mortality ogives for the Indian Ocean bigeye and yellowfin tuna stock assessments (Hoyle S)
IOTC-2022-WPTT24-R	Meeting Report

Catch document Scheme Working Group

IOTC-2022-CDSWG06-01	Provisional Agenda
IOTC-2022-CDSWG06-02	Scope application CDS – Artisanal fisheries
IOTC-2022-CDSWG06-03	Discussion Paper updated
IOTC-2022-CDSWG06-04	Comparison of SD and CDS (prepared by Japan)
IOTC-2022-CDSWG06_R_Rev1	Meeting Report
IOTC-2022-CDSWG07-01a	Provisional Agenda
IOTC-2022-CDSWG07-02	Scope
IOTC-2022-CDSWG07-R	Meeting Report

Ad Hoc Working Group on the Development of Electronic Monitoring Programme Standards

IOTC-2022- WGEMS02-03	Electronic Monitoring related Terms and Definitions (WGEMS chairs and Secretariat)
IOTC-2022- WGEMS02-05	Minimum standards for designing and implementing Electronic Monitoring systems in Indian Ocean tuna fisheries (Murua H, Fiorellato F, Ruiz J, Chassot E and Restrepo V)
IOTC-2022- WGEMS02-R	Meeting Report

Ad hoc Working Group on FADs

IOTC-2022-WGFAD03-03	Review of the statistical data on FADs (IOTC Secretariat)
IOTC-2022-WGFAD03-R	Meeting Report

Vessel Monitoring System Working Group

IOTC-2022-VMSWG04-01	Agenda
IOTC-2022-VMSWG04-02	Status of progress and Work Plan
IOTC-2022-VMSWG04 R	Meeting report
IOTC-2022-VMSWG05-01	Agenda
IOTC-2022-VMSWG05-02	Draft TOR Costs for an IOTC VMS
IOTC-2022-VMSWG05-03	Secretariat's role (prepared by Seychelles)
IOTC-2022-VMSWG05-04	Proposed amendments to Resolution 15-03

IOTC-2022-VMSWG05 R	Meeting report
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Management Strategy Evaluation Task Force

IOTC-2022-WPM13(MSE)-01a	Agenda
IOTC-2022-WPM13(MSE)-R	Meeting Report

APPENDIX 4

ACRONYMS USED IN THIS REPORT

CDS	Catch Documentation Scheme
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
ISSF	International Seafood Sustainability Foundation
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
VMS	Vessel Monitoring System
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