

REPORT OF THE SECRETARIAT – ACTIVITES IN SUPPORT OF THE IOTC SCIENCE PROCESS IN 2011

PREPARED BY: IOTC SECRETARIAT, 24 NOVEMBER 2011

PURPOSE

To inform the Scientific Committee (SC) of work undertaken by the IOTC Secretariat in 2011.

DISCUSSION

Staffing

Deputy Secretary – Science Manager: Dr. David T. Wilson joined the Secretariat in February 2011, following a recruitment process by FAO that took thirteen months to complete. The Selection Panel consisted of the IOTC Executive Secretary, the former Chair of the Commission (Mr. Rondolph Payet), the former Chair of the Working Party on Billfish (Mr. Jan Robinson), and Dr. Peter Miyake, from Japan.

Stock Assessment Expert: The Stock Assessment Expert's (Dr. Dale Kolody) contract ends on 11th December 2011 and the recruitment process to replace him has commenced.

IOTC meetings – Working parties

In 2011, six Working Party meetings were organised and facilitated by the IOTC Secretariat (Table 1). A one day Session of the Working Party on Methods was scheduled to occur in conjunction with the Working Party on Tropical Tunas (WPTT), however, due to a lack of resources, the meeting was cancelled. Papers intended for presentation at the WPM were incorporated into the 13th Session of the WPTT. The current Chairs and Vice-Chairs for each Committee and Working Party are provided at [Attachment A](#).

Table 1. Scientific Meetings held in 2011, prior to the 15th Session of the IOTC Scientific Committee meeting. Numbers in brackets represent numbers for the previous working party meeting.

Working Party	Date and place	No. of participants (previous meeting)	Meeting Participation Fund (previous meeting)	No. of documents (previous meeting)
Billfish	4–8 July, Seychelles	27 (12)	5 (0)	Total: 41 (18) Working papers: 28 (15) Information papers: 11 (3)
Temperate Tunas	20–22 September, Rep. of Korea	16 (15)	2 (–)	Total: 25 (12) Working papers: 19 (9) Information papers: 6 (3)
Tropical Tunas	16–23 October, Maldives	49 (39)	13 (11)	Total: 84 (55) Working papers: 67 (55) Information papers: 17 (0)
Ecosystems and Bycatch	24–27 October, Maldives	49 (37)	7 ¹ (9 ²)	Total: 92 (43) Working papers: 57 (26) Information papers: 35 (17)
Neritic Tunas	14–16 November, India	28 (–)	9 ³ (–)	Total: 42 (–) Working papers: 31 (–) Information papers: 11 (–)
Data Collection and Statistics	8–10 December, Seychelles	pending (28)	pending (5)	Total: 18 (13) Working papers: 11 (10) Information papers: 7 (3)
Scientific Committee	12–17 December	pending (41)	pending (7)	n.a.

Appendix A lists the documents produced by the Secretariat in support of Working Party meetings held in 2011. In addition, the 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.

¹ 3 scientists attended both the WPTT and WPEB

² 6 scientists attended both the WPTT and WPEB

³ another 7 scientists were supported by IOTC through the Capacity Building funds as they were also attending the capacity building workshop

The Secretariat also supported the participation of invited experts that were selected to attend each of the Working Party meetings in 2011, with the exception of the Working Party on Data Collection and Statistics. The names and affiliations of each of the Invited Experts for 2011 are provided in Table 2.

Table 2. Invited Experts for Working Party meetings in 2011.

Working Party	Date and place	Name	Affiliation
Billfish	4–8 July, Seychelles	Dr. Toshihide Kitakado	Tokyo University of Marine Science and Technology – Japan
Temperate Tunas	20–22 September, Rep. of Korea	Dr. Simon Hoyle	Secretariat of the Pacific Community – SPC–OFP
Tropical Tunas	16–23 October, Maldives	Dr. Joe Powers Ms. Paige Eveson	Louisiana State University – USA CSIRO – Australia
Ecosystems and Bycatch	24–27 October, Maldives	Dr. Evgeny Romanov Dr. Enric Cortes	CAPRUN-ARDA – La Réunion NMFS-NOAA – USA
Neritic Tunas	14–16 November, India	Dr. Shane Griffiths	CSIRO - Australia
Data Collection and Statistics	8–10 December, Seychelles	Nil	Nil

The Stock Assessment Expert (SAE) assisted in the coordination of Working Party activities for the main IOTC species (WPTT, WPB, WPTMT), contributing a number of supporting analyses, full stock assessments for swordfish and skipjack, and discussion papers on improving the IOTC stock assessment process (see list of WPs in [Attachment B](#)). The SAE also represented the IOTC in the broader fisheries community, e.g. by participating as an invited expert in the meeting on stock recruit steepness and natural mortality organized by the International Seafood Sustainability Foundation (ISSF), and coordinating a priority list of developments for improving tag analyses within Stock Synthesis assessment software.

IOTC meetings – Capacity building workshop

At its 15th Session in 2011, the Commission agreed to further support capacity building activities among its Members by implementing adequate capacity building and support programmes. As a result, the Secretariat organised a workshop on “*Bridging the Gap between IOTC Science and Management*”, and hired the services of a consultant to develop and deliver what we hope will be the first of many workshops, from 17–18 November, 2011, in Chennai, India. The aims of the two day workshop were to 1) improve the level of comprehension among IOTC Members on how the scientific process informs the management of IOTC species and ecosystems; and 2) increase the awareness of IOTC Members to their obligations, as stipulated in the Commissions’ Conservation and Management Measures.

The workshop covered a range of topics including:

- Structure and functioning of the IOTC
- Current status of IOTC stocks
- Communicating IOTC science to managers
- Lessons to be learnt from other fisheries management structures
- How to interpret science advice as a manager
- Country level implications arising from stock assessment results and management options analyses
- How the Commission uses Science advice to develop Conservation and Management Measures
- Implications of current Conservation and Management Measures for CPCs
- Effects of poor compliance with IOTC requirements on the provision of scientific advice and management.

The target audience for the workshop was national scientists and middle managers, who support IOTC Commissioners, from developing coastal states. The workshop was attended by 34 participants from 10 CPCs.

IOTC meetings – Meeting Participation Fund

The IOTC Meeting Participation Fund (MPF) was established during the 14th Session of the Commission (2010), held in Busan, Republic of Korea, through Resolution 10/05 *on the establishment of a meeting participation fund for developing IOTC Members and Non-contracting Cooperating Parties (CPCs)*. The MPF was established for the purposes of supporting scientists and representatives from IOTC Members and Cooperating non-Contracting Parties (CPCs) who are developing States to attend and/or contribute to the work of the Commission, the Scientific Committee and its Working Parties. The MPF was initially financed by an allocation of USD\$200,000 from IOTC’s accumulated funds in 2010 and was subsequently replenished to USD\$200,000 by the Commission at its 15th Session held in Colombo, Sri Lanka.

Noting that the intention of the MPF was to utilise the funds, as a first priority, to support the participation of scientists from developing CPCs in scientific meetings of the IOTC, including Working Parties, in 2011, the Secretariat facilitated the participation of 33 individuals from 15 developing CPCs of IOTC to the five Working Party meetings held (not including the WPDCS as numbers not yet available at time of publication) as detailed in Table 1. The level of participation by MPF recipients in 2011 was up from 19 MPF participants to Working Party meetings in 2010. MPF and capacity building recipients

in 2011 presented 38 working documents and 2 information papers to the various Working Party meetings, as detailed in Table 1.

Data-related activities – General

A large proportion of the time of the Data Section staff is currently devoted to the acquisition and edition of the data required under the IOTC Resolutions. These data are utilized in monitoring compliance or in scientific analyses necessary for the assessment of the status of the stocks.

The IOTC databases are constantly revised as necessary. The migration of data from the old structure to the new structure could not be achieved in 2011, due to lack of time.

The regular suite of datasets have been supplied timely for all scientists engaged in stock assessment activities and reports on Status of IOTC databases produced for relevant Working Parties and Scientific Committee, and for the preparation of the Country Reports of the Compliance Committee. The Data Coordinator has been elected as the Chair for the Working Party on Data Collection and Statistics for the biennium, illustrating the important role that the Secretariat continues to play in the data acquisition and analysis.

In addition to the standard fishery datasets, the Secretariat has completed an update of the tagging datasets. These included a revision of the Maldives datasets and the incorporation of all the release and recovery data generated by the pilot and small-scale tuna tagging projects in the main IOTC tagging database, which was developed under the framework of the Regional Tuna Tagging Programme in the Indian Ocean (RTTP-IO). To undertake these tasks, the Secretariat was assisted by two consultants; Dr. Guillermo Moreno for the cleaning and validation of the Maldivian datasets, and Mr. Pierre Peries for the consolidation of databases generated by the small-scale tagging projects. More validation of the data from the small-scale projects still need to be undertaken, as well as the incorporation of historical tagging datasets (data from the Maldivian tagging projects developed in the 1980s and 1990s).

Data-related activities – Compliance

There exists a significant gap in the availability of fisheries statistics from the different fisheries and fishing gears employed in the IOTC Area. Nonetheless, at its 2011 Session, the Commission expressed its concerns on the generally low level of compliance to the submission of mandatory fisheries statistics. While there have been some recent improvements in the submission of fisheries statistics relating to nominal catch and catch and effort, there is still an important lack of data reported by CPCs in relation to size frequency data. The level of compliance also remains extremely low with regards to the submission of data relating to species caught incidentally by tuna fishing operations, that is, marine turtles, seabirds and sharks. It should be noted that the Commission has adopted specific conservation and management measures for these species.

Data-related activities – IOTC-OFCF Project

The Secretariat continues offering support to developing coastal states through the IOTC-OFCF Project, which has provided resources and advice for the strengthening of data collection systems in more than 20 countries in the region since its inception in 2002.

In the context of the IOTC-OFCF Project, the Data Coordinator visited Iran, (March and September 2011) and Sri Lanka (August 2011) to discuss with national officials the implementation of data management systems in these countries (Table 3). In addition, the Data Coordinator travelled to Rome in February 2011, to Chair the tRFMO Technical Meeting on the Consolidation of Lists Of Authorized Vessels, and to San Diego in July to present the results of this work to the Kobe III Meeting.

The Secretariat is also the leading agency in the establishment of a global list of tuna vessels, consolidated between the five tuna regional fishery management organizations, with the Data Coordinator acting as the Chair of the technical group coordinating these activities and coordinating updates of the Consolidated List of Authorized Vessels.

The Third Phase of the IOTC-OFCF⁴ Project continued its operations during 2011. This phase of the project is being conducted with a smaller budget than that available during the first phase and, therefore, the range of activities has been scaled down accordingly. The main activities conducted in 2011 were:

- a) Assistance to the execution of a fisheries census in Comoros (December 2010 - February 2011): The results of the census were presented to the WPTT in 2011 and will be used in the estimation of catch for the artisanal fisheries of Comoros, in combination with data collected through the on-going sampling survey, conducted using funds from the Commission. These activities are carried out by the “Centre National des Ressources Halieutiques” of Comoros.
- b) Assisting the design and implementation of a Centralized Database System in Sri Lanka (October 2011-March 2012): The Project provided the Ministry of Fisheries and Aquatic Resources of Sri Lanka with the funds necessary to carry out this work, including: (i) execution of this work by a local consultant company; and (ii) purchase of the software and hardware required. A follow-up mission by the Project is scheduled in December, after the meeting of the SC.
- c) Assisting the strengthening of the Centralized Database System in the Islamic Republic of Iran (November 2011 – March 2012): The Project provided the Fisheries Organization of Iran (SHILAT) with funds to purchase the software and hardware required for the execution of this activity. The Fisheries Organization will use its own funds to hire a

⁴ Overseas Fishery Cooperation Foundation of Japan

local consultant to extend the capabilities of the existing database, to facilitate data management and reporting of statistics as per the IOTC format in a timely manner.

In addition, the IOTC received requests for assistance from Iran (2011) and Sri Lanka (2009) in the strengthening of sampling activities in these countries. In both cases, the IOTC presented draft Terms of Reference for the activities proposed. To date, the National Aquatic Resources and Development Agency of Sri Lanka has not finalized revision of the proposal. The implementation of sampling activities in Iran is currently under consideration. Finally, the IOTC data assistant attended a one month training program, entitled: Leadership training course on fisheries resource management, organised by the Overseas Fishery Cooperation Foundation of Japan. Topics covered in the course ranged from the fisheries statistics system in Japan to GIS systems.

All these activities involved, in addition to the OFCF expert attached to the Secretariat, the participation of the Data Coordinator, and the Fisheries Expert.

More details on the activities of the IOTC-OFCF Project were presented to the Working Party on Data Collection and Statistics (IOTC–2011–WPDCS08–06)

Table 3. IOTC and IOTC–OFCF missions in 2011

Country	Date	Staff	Description
Comoros	Jan 13–22	Project Manager Fisheries Expert	Inception of the Fisheries Census and Sampling Projects
Iran	Mar 24–Apr 3	Data Coordinator	Fact finding mission data collection, processing, and reporting systems for driftnet fisheries
Sri Lanka	Aug 15–25	Project Manager Data Coordinator	Inception of the Data Management Project
Iran	Sep 2–8	Project Manager Data Coordinator	Inception of the Project to strengthen the Centralized database system
Sri Lanka (planned)	Dec18–23	Project Manager Data Coordinator	Monitoring of database design and development

Data-related activities – Study on improvement of catch reporting systems including data collection on artisanal fisheries

At the 14th Session of the Commission Members agreed to set aside USD\$400,000 to support the implementation of port sampling schemes in accordance with Resolution 10/04, which was superseded by Resolution 11/04 *on a regional observer scheme*. In addition, the funds were to be used to support a pilot project to assess the feasibility of improving the data reporting from artisanal fisheries to produce reporting in near real time.

During 2010 and 2011, the IOTC Secretariat, under the framework of the IOTC-OFCF Project or on its own, implemented activities in some countries of the IOTC Region with the objective to enhance data collection and reporting systems. These activities included implementation of a fleet census and catch sampling in Comoros, and strengthening of data management systems in Comoros, the Islamic Republic of Iran, and Sri Lanka.

In order to assist the feasibility study work, the Secretariat hired the services of a consultant, Dr. Guillermo Moreno, in April 2011, for a period of six months. Dr. Moreno visited nine coastal countries in the IOTC Region, namely India, Indonesia, Iran (IR), Kenya, Madagascar, Maldives, Mozambique, Sri Lanka, and Tanzania, all having important fisheries for tropical tunas. Document IOTC–2011–SC14–38, prepared by the IOTC Secretariat, presents a summary of situation in the countries covered by the Consultant, plus assessment of the situation in other coastal countries or fisheries operated in the IOTC Region.

Data-related activities – Yellowfin tuna – stock assessment

Following the recommendation of the Working Party on Tropical Tunas in 2010, which was endorsed by the Scientific Committee at its 13th Session, a Stock Assessment consultant (Dr. Adam Langley) was hired again to conduct stock assessment analyses on yellowfin tuna, which were presented and received favourably by participants at the 13th Session of the WPTT. As a result, the WPTT made the following recommendation:

WPTT13.39 (para.198) The WPTT thanked Dr. Adam Langley (consultant) for his contributions and expertise on integrated stock assessment models, and **RECOMMENDED** that his engagement be renewed for the coming year.

Data-related activities – Skipjack tuna – stock assessment

In collaboration with scientist from the Marine Research Center in the Maldives, the SAE conducted a CPUE analysis of the logbook data coming from the pole-and-line fishery in Maldives. The Secretariat supported the work of a local consultant to complete the preparation of the data. The CPUE analysis was followed by the first stock assessment on skipjack tuna conducted under IOTC, which was presented by the SAE at the WPTT13.

Other activities

Consolidated List of Authorized Vessels (CLAV)

As from early 2011, the IOTC Secretariat has been responsible for the coordination of activities concerning the global Consolidated List of Authorized Vessels (CLAV), a regularly updated list including the authorized vessels of the five t-RFMOs. The IOTC Data Coordinator acted as moderator in a joint t-RFMO technical meeting, held in February 2011 in Rome (Italy). ISSF provided funds to facilitate the assistance of database experts from the five t-RFMO. The meeting agreed on a mechanism for the exchange of lists of authorized vessels for the CLAV, including standards for the exchange of data and frequency of updates. The report of the meeting can be downloaded from ([click here](#)). The CLAV has been updated once a month since the Rome Meeting, and summaries of the work conducted and results have been disseminated regularly, including through the IOTC Newsletter. In addition, a progress report was presented to the KOBE III Meeting in San Diego (July 2011).

At present the IOTC Secretariat and FAO-FIDI are working together in the streamlining of the software used for the matching of duplicates and display of information. An IT Consultant from the FAO, Mr. Fabio Fiorellatto, visited the Seychelles in June 2011, to work with the IOTC Data Coordinator in adapting the FAO Vessel Record Management Framework to be used for updates of the CLAV. The ISSF provided funds to support part of this work. It is expected that a new version of the software be available by the first quarter of 2012.

KOBE process

The Secretariat participated in the first meeting of the Bycatch Joint Technical Working Group (Deputy Secretary) and the third joint meeting of the tuna Regional Fisheries Management Organisations (KOBE III) (Executive and Deputy Secretary) and the the Data Coordinator funded via ISSF. The Chairman of the Working Party on Ecosystems and Bycatch also attended the meetings, funded via NOAA. The outcomes of these two meetings are discussed in documents IOTC–2011–SC14–06 and IOTC–2011–SC14–07.

Tagging symposium

As requested by the Commission in 2011, the Secretariat initiated the preparatory work towards convening a Tagging Symposium in November 2012. The aim of the Symposium, financed by extra-budgetary funds by the IOTC (accumulated funds) and the European Union, is to encourage and support additional in-depth analyses of the tagging data generated by the Indian Ocean Tuna Tagging Programme (IOTTP), and presenting them to a wider audience of scientists and general public. The Secretariat coordinated the establishment of a Steering Committee that includes members of the scientific community, from the Secretariat, and external invited scientists. A list of research activities to be conducted was drawn by members of the Steering Committee, and a Grant Agreement with the EU was signed in the past few weeks to secure the proposed funding.

Contacts with other organizations

The Secretariat routinely maintains contacts with other organizations in the region with the purpose of coordinating scientific activities to the extent possible. This is essential to avoid duplication of efforts with similar organizations. The Executive Secretary and Deputy Secretary maintains regular contacts with the other tuna RFMOs (CCSBT, IATTC, ICCAT, and WCPFC), although in 2011, did not participate in the meetings of the other tuna RFMOs.

As mentioned above, the Secretariat maintains close links with the **Commission de l’Océan Indien** (COI) primarily through the discussions of possible future coordination and cooperation in fisheries projects involving tuna fisheries. The Secretariat is currently involved in a number of joint activities with the IOC Project Integrated Regional Fisheries Strategy (IRFS), mostly on Compliance issues, but it is expected that there will be collaboration on data-collection activities between the IRFS and IOTC.

The **Southwest Indian Ocean Fishery Commission** (SWIOFC) is an advisory body under the FAO umbrella that deals with non-tuna species in the EEZ of the member countries. The **Southwest Indian Ocean Fishery Project** (SWIOFP) is a multinational project partly financed by the World Bank and Global Environment Fund. Although neither of these institutional arrangements have a mandate to manage tuna fisheries, they can contribute actively to the scientific work of IOTC and assist in its management actions, so coordination is essential. To the extent possible the Secretariat attends the meetings of these two organizations. As examples of cooperation, SWIOFC has convened the meeting of its Scientific Committee in conjunction the IOTC cooperation so that national scientists from common Members could attend both meetings. In the case of SWIOFP, it has supported participation of scientists from the region in various meetings of IOTC, and has supported training of observers that would participate in the Regional Observer Scheme.

The Secretariat continues its coordination with various intergovernmental and non-governmental organizations interested in the activities of the Commission, including:

- the **Indian Ocean Sea Turtle Memorandum of Understanding**, an intergovernmental organizations for the protection of sea turtles
- **BirdLife International**
- **World Wildlife Fund, Traffic**
- the **International Sustainability Seafood Foundation**, and has established contacts with the **Agreement on the Conservation of Albatrosses and Petrels** (ACAP) a multilateral agreement to coordinate international activity to mitigate threats to albatross and petrel populations.

IOTC publications and information products

Documents

In 2011, the Secretariat produced **79** (compared to **28** in 2010) papers/reports ([Attachment B](#)) in support of the IOTC Science process, not including the reports of the various working parties. It was not possible to complete the production of a Data

Summary as the elevated workload did not allow the Secretariat to complete the task as planned. However, the Data Section of the IOTC Secretariat devoted a lot of time to extending the amount of information presented to the different IOTC meetings, in particular information on fisheries trends and other indicators. The IOTC Secretariat will use the information presented in these reports in the preparation of a Data Summary, as soon as time allows. In support of the work of the species' Working Parties, datasets in standard formats were distributed to scientists interested in conducting analyses. The main datasets were available for download from the IOTC website prior to the meeting of the Working Party.

IOTC Website

The IOTC website continues to be a portal for communicating science related information to a variety of audiences. The Secretariat is currently working closely with a local web design company to develop a new website, as requested by the Commission. The design team is currently working on a more user friendly format, which will facilitate user access to a range of information including a number of new databases.

Identification cards – sharks, seabirds and marine turtles

Following recommendations from the Working Party on Ecosystem and Bycatch and the Scientific Committee to develop identification cards for sharks, marine turtles and seabirds, the Secretariat has developed and finalized the identifications cards for sharks, seabirds and marine turtles, thanks to the help of the following experts:

Sharks –Chairman of the WPEB, Dr. Chares Anderson and Vice-Chair Dr. Evgeny Romanov. These identification cards are developed with sharks and rays illustrations by Roger Swainston and from a collaborative work from the Institut de Recherche pour le Développement (IRD) and the French National Natural History Museum (MNHN).

Seabirds – Birdlife International – Dr. Ross Wanless, from the Secretariat of the Agreement on the Conservation of Albatrosses and Petrels – Mr. Barry Baker and from the Royal Society for the Protection of Birds – Ms. Cleo Small. These identification cards were developed with seabird drawings given by Random House Struik which has the copyright on the illustrations.

Marine turtles –IOASEA MoU - Mr. Douglas Hyke and his team, from IFREMER La Réunion – Mr. Jérôme Bourjea, and from KELONIA – Mr. Stephane Ciccione.

The identifications cards for sharks and marine turtles are joint publications of the IOTC and the SPC, as these cards were based on the designs developed by SPC a few years ago and adapted to the context of the Indian Ocean.

The identification cards are intended to be used primarily by scientific observers under the framework of the IOTC Regional Observer Scheme (Resolution 11/04 *on a Regional Observer Scheme*), however they could also be distributed and used by fishers in order to record and report interactions with sharks, marine turtles and seabirds. The identification cards have been produced in both English and French. The Secretariat has been enquiring about the possibility of printing these cards either in Seychelles or in Mauritius, however, no printers have indicated that they are in a position to produce the cards. As a result, the Secretariat trying to identifying other printing companies to print an initial batch of the identification cards with the remaining IOTC project funds available (~USD\$25,000). However, the IOTC does not have the financial means to print cards for all the CPCs. Pdf files of the identification cards will be made available via the IOTC website for CPCs to print and disseminate them to their observers, samplers and fishers.

RECOMMENDATION

That the Scientific Committee **NOTE** the report of the IOTC Secretariat for 2011.

ATTACHMENTS

[Attachment A](#): List of Chairs, Vice-Chairs and their respective terms for IOTC Science meeting.

[Attachment B](#): List of papers with participation from Secretariat staff in the year 2011.

ATTACHMENT A

List of Chairs, Vice-Chairs and their respective terms for IOTC Science meeting

Group	Chair/Vice-Chair	Chair	CPC/Affiliation	Term commencement date	Term expiration date (End date is until replacement is elected)	Comments
SC	Chair	Dr. Francis Marsac	EU,France	10 November 2006	End of SC in 2011	3rd term - 1 year extension
	Vice-Chair	Dr. Tsutomu Nishida	Japan	10 November 2006	End of SC in 2011	3rd term - 1 year extension
WPB	Chair	Mr. Jerome Bourjea	La Reunion/France	08 July 2011	End of WPB in 2013	1st term
	Vice-Chair	Mr. Miguel Santos	EU,Portugal	08 July 2011	End of WPB in 2013	1st term
WPTmT	Chair	Dr. Zang Geun Kim	Korea, Rep. of	22 September 2011	End of WPTmT in 2013	1st term
	Vice-Chair	Dr. Tsutomu Nishida	Japan	22 September 2011	End of WPTmT in 2013	1st term
WPTT	Chair	Dr. Hilario Murua	EU,Spain	25 October 2010	End of WPTT in 2012	1st term
	Vice-Chair	Dr. Shiham Adam	Maldives, Rep. of	23 October 2011	End of WPTT in 2013	1st term
WPEB	Chair	Dr. Charles Anderson	UK/Independent	14 October 2010	End of WPEB in 2013	2nd term
	Vice-Chair	Dr. Evgeny Romanov	La Reunion/France	27 October 2011	End of WPEB in 2013	1st term
WPNT	Chair	Dr. Prathibha Rohit	India	27 November 2011	End of WPNT in 2013	1st term
	Vice-Chair	Mr. Farhad Kaymaram	I.R. Iran	27 November 2011	End of WPNT in 2013	1st term
WPDCS	Chair	Mr. Miguel Herrera	Secretariat	04 December 2010	End of WPDCS 2012	2nd term
	Vice-Chair	Vacant	Vacant	Vacant	Vacant	Vacant
WPM	Chair	Vacant	Vacant	Vacant	Vacant	Vacant
	Vice-Chair	Vacant	Vacant	Vacant	Vacant	Vacant
WPFC	Chair	Not active	Not active	Not active	Not active	Not active
	Vice-Chair	Not active	Not active	Not active	Not active	Not active

ATTACHMENT B

List of papers with participation from IOTC Secretariat staff in the year 2011

Document number	Title
<i>Ninth Session of the IOTC Working Party on Billfish</i>	
IOTC–2011–WPB09–03	Outcomes of the Thirteenth Session of the Scientific Committee (Secretariat)
IOTC–2011–WPB09–04	Outcomes of the Fifteenth Session of the Commission (Secretariat)
IOTC–2011–WPB09–05	Progress made on the recommendations of WPB08 (Secretariat and Chair)
IOTC–2011–WPB09–06	Review of the statistical data available for the billfish species (M. Herrera and L. Pierre — Secretariat)
IOTC–2011–WPB09–07	Preparation of data input files for the stock assessments of Indian Ocean Swordfish (M. Herrera and L. Pierre — Secretariat)
IOTC–2011–WPB09–08	Review of fishery trends for billfish species (M. Herrera and J. Million — Secretariat)
IOTC–2011–WPB09–09_rev1	Kenyan Sports Fishing Sailfish Catches (S. Ndegwa and M. Herrera)
IOTC–2011–WPB09–13	Review of CPUE issues for the 2011 Indian Ocean swordfish stock assessment (D. Kolody)
IOTC–2011–WPB09–17	An age-, sex- and spatially-structured stock assessment of the Indian Ocean swordfish fishery 1950-2009, including special emphasis on the south-west region (D. Kolody)
IOTC–2011–WPB09–21	Template for the ‘Executive Summary’ for billfish species (Secretariat and Chair)
IOTC–2011–WPB09–22	Review of current Conservation and Management Measures for billfish species (Secretariat and Chair)
<i>Third Session of the Working Party on Temperate Tunas</i>	
IOTC–2011–WPTmT03–03	Outcomes of the Thirteenth Session of the Scientific Committee (Secretariat)
IOTC–2011–WPTmT03–04	Outcomes of the Fifteenth Session of the Commission (Secretariat)
IOTC–2011–WPTmT03–05	Progress made on the recommendations of WPTmT02 (Secretariat and Chair)
IOTC–2011–WPTmT03–06	Review of the statistical data available for albacore (M. Herrera and L. Pierre — Secretariat)
IOTC–2011–WPTmT03–07	Review of fishery trends for temperate tunas (M. Herrera and J. Million — Secretariat)
IOTC–2011–WPTmT03–09	Template for resource Executive Summaries (Secretariat and Chair)
IOTC–2011–WPTmT03–10	Review of current Conservation and Management Measures relating to temperate tuna species (Secretariat and Chair)
IOTC–2011–WPTmT03–19	A note on the ASPIC Fox model and Indian Ocean albacore assessment (D. Kolody and S. Hoyle)
<i>Thirteenth Session of the Working Party on Tropical Tunas</i>	
IOTC–2011–WPTT13–03	Outcomes of the Thirteenth Session of the Scientific Committee (Secretariat)
IOTC–2011–WPTT13–04	Outcomes of the Fifteenth Session of the Commission (Secretariat)
IOTC–2011–WPTT13–05	Progress made on the recommendations of WPTT12 (Secretariat and Chair)
IOTC–2011–WPTT13–06	Review of the statistical data available for the tropical tuna species (M. Herrera, L. Pierre and J. Million — Secretariat)
IOTC–2011–WPTT13–07a	Preparation of catch-at-size and catch-at-age files for the stock assessments of tropical tunas (M. Herrera and L. Pierre — Secretariat)
IOTC–2011–WPTT13–07b	Preparation of data input files for the assessments of Indian Ocean yellowfin tuna stock (M. Herrera and J. Million — Secretariat)
IOTC–2011–WPTT13–08	Review of fishery trends for tropical tunas species (M. Herrera and J. Million — Secretariat)
IOTC–2011–WPTT13–09	Template for the ‘Executive Summary’ of tropical tuna species (Secretariat and Chair)
IOTC–2011–WPTT13–10	Review of current Conservation and Management Measures for tropical tuna species (Secretariat and Chair)
IOTC–2011–WPTT13–22 Rev_1	A Bayesian observation error model for otolith reading: The case study of yellowfin tuna (<i>Thunnus albacares</i>) in the Indian Ocean (E. Dortel, F. Massiot-Granier, E. Chassot, E. Morize, J. Million and E. Rivot)
IOTC–2011–WPTT13–29	Maldivian skipjack pole and line fishery catch rate standardization 2004–2010 (D. Kolody and S. Adam)
IOTC–2011–WPTT13–31	Integrated stock assessment (SS3) of Indian Ocean skipjack tuna 1950–2009 (D. Kolody, J. Million, and M. Herrera)
IOTC–2011–WPTT13–33	Can length-based selectivity explain the two stage growth curve observed in Indian Ocean YFT and BET? (D. Kolody)
IOTC–2011–WPTT13–36 Rev_1	Stock assessment of yellowfin tuna in the Indian Ocean using MULTIFAN-CL (A. Langley, M. Herrera and J. Million)
IOTC–2011–WPTT13–47	A comparison of stock assessment practices in tuna-RFMOs (H. Murua, P. de Bruyn and D. Kolody)
IOTC–2011–WPTT13–62	Proposed workshop on Indian Ocean longline CPUE standardization methods (Secretariat)
IOTC–2011–WPTT13–63	Presenting IOTC stock status advice from multiple models to the broader fisheries community (Secretariat)
IOTC–2011–WPTT13–INF16	Evaluation of three harvest control rules for bigeye tuna (<i>Thunnus obesus</i>) fisheries in the Indian Ocean (Y. Tong, D. Kolody, C. Xinjun and C. Yong)
<i>Seventh Session of the Working Party on Ecosystems and Bycatch</i>	
IOTC–2011–WPEB07–03	Outcomes of the Thirteenth Session of the Scientific Committee (Secretariat)
IOTC–2011–WPEB07–04	Outcomes of the Fifteenth Session of the Commission (Secretariat)

IOTC–2011–WPEB07–05	Report of the First Bycatch Joint Tuna Technical Working Group (Secretariat)
IOTC–2011–WPEB07–06	Recommendations arising from the KOBE III meeting (Secretariat)
IOTC–2011–WPEB07–07	Progress made on the recommendations of WPEB06 (Secretariat and Chair)
IOTC–2011–WPEB07–08	Review of the statistical data available for the bycatch species (M. Herrera and L. Pierre — Secretariat)
IOTC–2011–WPEB07–09	Update on the Regional Observer Scheme (Secretariat)
IOTC–2011–WPEB07–10	Outcomes of the Circle Hook Symposium 4–6 May 2011, Miami, USA (Secretariat)
IOTC–2011–WPEB07–11 Rev_1	Status of the development of identification cards for sharks, seabirds and marine turtles (Secretariat)
IOTC–2011–WPEB07–12	Status of development and implementation of National Plans for Action for Seabirds and Sharks (Secretariat)
IOTC–2011–WPEB07–13	Review of current Conservation and Management Measures relating to ecosystems and bycatch (Secretariat and Chair)
IOTC–2011–WPEB07–14	Status of sharks in the Indian Ocean (Secretariat)
IOTC–2011–WPEB07–15	Status of marine turtles in the Indian Ocean (Secretariat)
IOTC–2011–WPEB07–16	Status of seabirds in the Indian Ocean (Secretariat)
IOTC–2011–WPEB07–55	CPC reporting of bycatch data as per IOTC Conservation and Management Measures (Secretariat)
<i>First Session of the Working Party on Neritic Tunas</i>	
IOTC–2011–WPNT01–03	Outcomes of the Thirteenth Session of the Scientific Committee (Secretariat)
IOTC–2011–WPNT01–04	Outcomes of the Fifteenth Session of the Commission (Secretariat)
IOTC–2011–WPNT01–05	Review of the statistical data available for the neritic tuna species (M. Herrera and L. Pierre — Secretariat)
IOTC–2011–WPNT01–07	Template for a resource Executive Summary (Secretariat)
IOTC–2011–WPNT01–08	Review of current Conservation and Management Measures relating to neritic tuna species (Secretariat)
<i>Eighth Session of the Working Party on Data Collection and Statistics</i>	
IOTC–2011–WPDCS08–03	Outcomes of the Thirteenth Session of the Scientific Committee and of the Fifteenth Session of the Commission (Secretariat)
IOTC–2011–WPDCS08–04	Progress made on the recommendations of WPDCS07 (Secretariat)
IOTC–2011–WPDCS08–05 Rev_1	Review of current Conservation and Management Measures relating to data collection and statistics (Secretariat)
IOTC–2011–WPDCS08–06	Report on IOTC Data Collection and Statistics (Secretariat)
IOTC–2011–WPDCS08–07	Evaluation of IOTC statistics for major longline fisheries in the Indian Ocean (Secretariat)
IOTC–2011–WPDCS08–09	Draft proposal of minima data requirements for handline, trolling and sport fisheries (Secretariat)
<i>Fourteenth Session of the Scientific Committee</i>	
IOTC–2011–SC14–03	Outcomes of the Fifteenth Session of the Commission
IOTC–2011–SC14–04	Previous decisions of the Commission
IOTC–2011–SC14–05	Report of the Secretariat – Activities in support of the IOTC science process in 2011
IOTC–2011–SC14–06	Report of the First Meeting of the Bycatch Joint Technical Working Group
IOTC–2011–SC14–07	Recommendations arising from the KOBE III meeting
IOTC–2011–SC14–33	Status of development and implementation of National Plans Of Action for seabirds and sharks (Secretariat)
IOTC–2011–SC14–34	National Implementation of the regional observer scheme by CPCs (Secretariat)
IOTC–2011–SC14–35	On the implementation of the precautionary approach (Secretariat)
IOTC–2011–SC14–36	Development of a Management Strategy Evaluation process for the IOTC (Secretariat, in the absence of a Chair WPM)
IOTC–2011–SC14–37	Update on progress regarding Resolution 09/01 – on the performance review follow-up (Secretariat and Chair)
IOTC–2011–SC14–38	Evaluation of data collection and reporting systems for artisanal fisheries in the Indian Ocean (Secretariat)
IOTC–2011–SC14–39	Evaluation of the IOTC time-area closure (Chair WPTT and Secretariat)
IOTC–2011–SC14–42	Proposed schedule and priorities of Working Party and Scientific Committee meetings for 2012 and 2013 (Secretariat)
IOTC–2011–SC14–43	Rules for the appointment of an invited expert (Chair SC and Secretariat)
IOTC–2011–SC14–44	Peer review of IOTC stock assessments (Chair SC and Secretariat)
IOTC–2011–SC14–INF02	Kobe Strategy Matrix (Secretariat)