
ANNOTATED AGENDA FOR THE 12TH WORKING PARTY ON ECOSYSTEMS AND BYCATCH

Date: 12-16 September 2016

Location: Seychelles

Venue: STC conference centre, Victoria

Time: 09:00 – 17:00 daily

Chair: Dr Rui Coelho; **Vice-Chairs:** Dr Ross Wanless and Mr Reza Sahifar

1. **OPENING OF THE MEETING** (Chairperson)
2. **ADOPTION OF THE AGENDA AND ARRANGEMENTS FOR THE SESSION** (Chairperson)
 - IOTC-2016-WPEB12-01a: Draft: Agenda for the 12th Working Party on Ecosystems and Bycatch
 - IOTC-2016-WPEB12-01b: Draft: Annotated agenda for the 12th Working Party on Ecosystems and Bycatch
 - IOTC-2016-WPEB12-02: Draft: List of documents for the 12th Working Party on Ecosystems and Bycatch
3. **THE IOTC PROCESS: OUTCOMES, UPDATES AND PROGRESS**
 - 3.1 Outcomes of the 18th Session of the Scientific Committee (IOTC Secretariat)
 - IOTC-2016-WPEB12-03: Outcomes of the 18th Session of the Scientific Committee
 - 3.2 Outcomes of the 20th Session of the Commission (IOTC Secretariat)
 - IOTC-2016-WPEB12-04: Outcomes of the 20th Session of the Commission
 - 3.3 Review of Conservation and Management Measures relevant to Ecosystems and Bycatch (IOTC Secretariat)
 - IOTC-2016-WPEB12-05: Review of current Conservation and Management Measures relevant to ecosystems and bycatch
 - 3.4 Progress on the recommendations of WPEB11 (IOTC Secretariat)
 - IOTC-2016-WPEB12-06: Progress made on the recommendations and requests of WPEB11 and SC18
4. **REVIEW OF DATA AVAILABLE ON ECOSYSTEMS AND BYCATCH**
 - 4.1. Review of the statistical data available for ecosystems and bycatch species (IOTC Secretariat)
 - IOTC-2016-WPEB12-07: Review of the statistical data available for bycatch species
 - IOTC-2016-WPEB12-08: Improvements to the IOTC database (IOTC Secretariat)
 - 4.2. Regional Observer Scheme – update (IOTC Secretariat)
 - IOTC-2016-WPEB12-09: Update on the implementation of the IOTC Regional Observer Scheme
 - 4.3. Pilot projects under Resolution 16/04 (all)
5. **REVIEW OF NATIONAL BYCATCH ISSUES IN IOTC MANAGED FISHERIES AND NATIONAL PLANS OF ACTION** (sharks; seabirds; marine turtles) (CPCs and IOTC Secretariat)
 - 5.1. Review of applications for ‘*not applicable*’ NPOA status (IOTC Secretariat)
 - 5.2. Updated status of development and implementation of National Plans of Action for seabirds and sharks, and the implementation of the FAO guidelines to reduce marine turtle mortality in fishing operations (CPCs).
 - IOTC-2016-WPEB12-10: 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)
6. **NEW INFORMATION ON BIOLOGY, ECOLOGY, FISHERIES AND ENVIRONMENTAL DATA RELATING TO ECOSYSTEMS AND BYCATCH SPECIES**

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- 6.1. Review new information on environment and ecosystem interactions and modelling, including climate change issues affecting pelagic ecosystems in the IOTC area of responsibility (all)
- IOTC–2016–WPEB12–13: Trace elements in oceanic pelagic communities in the Western-Central Indian Ocean (N. Bodin, D. Lesperance, R. Albert, S. Hollanda, M. Degroote, C. Churlaud, P. Bustamante)
 - IOTC–2016–WPEB12–14: Progress of tuna regional fisheries management organizations in applying ecosystem-based fisheries management (M. J. Juan-Jordá, H. Murua, H. Arrizabalaga, N. K. Dulvy and V. Restrepo)
 - IOTC–2016–WPEB12–16: Estimating the composition and capture status of bycatch using Chinese longline observer data in the Indian Ocean (C. Gao and X. Dai)
- 7. GILLNET FISHERIES: PROBLEMS AND NEEDS** (recommendations from the SC / decisions of the Commission)
- 7.1. Regional review of the data available for gillnet fleets operating in the Indian Ocean (all)
- IOTC–2016–WPEB12–17: Composition and abundance of pelagic sharks caught by Indonesian drifting gillnet fisheries in the Indian Ocean (D. Novianto, A.F. Nugroho and R.R. Zedta)
 - IOTC–2016–WPEB12–40: Bycatch of the commercially important species of the tuna gillnet fisheries of Pakistan (M. Moazzam, M.W. Khan and R. Nawaz)
 - IOTC–2016–WPEB12–12: Iranian fishing vessels bycatch in IOTC area of competence in 2015 (R. Shahifar)
- 7.2. Training on species identification, bycatch mitigation and data collection for gillnet fleets – updates, plans of action and identification of other potential sources of assistance (all)
- 8. BLUE SHARK**
- 8.1. Review new information on blue shark biology, stock structure, bycatch mitigation measures, fisheries and associated environmental data (all)
- IOTC–2016–WPEB12–18: Estimates of intrinsic rate of population change and steepness for blue shark (*Prionace glauca*) in the Indian Ocean (D. Rosa & R. Coelho)
- 8.2. Review of new information on the status of blue shark (all)
- Nominal and standardised CPUE indices
 - IOTC–2016–WPEB12–19: Preliminary standardized CPUE of blue shark in the Indonesian tuna longline fishery estimated from scientific observer data, for the period 2005 – 2014 (D. Novianto, B. Setyadji & R. Coelho)
 - Stock assessments (including data poor approaches): preparation for 2017 assessment
 - IOTC–2016–WPEB12–36: Preliminary Analysis and Data Development for Blue Shark (*Prionace glauca*) Catch Reconstruction (J. Rice and S. Martin)
 - Selection of Stock Status indicators for blue shark
- 8.3. Development of management advice for blue shark and update of the Executive Summary for the consideration of the Scientific Committee (all)
- Consideration of options for alternative management measures for blue shark in the IOTC area of competence
- 9. OTHERS SHARKS AND RAYS**
- 9.1. Review new information on other shark and ray biology, stock structure, bycatch mitigation measures, fisheries and associated environmental data (all)
- IOTC–2016–WPEB12–20: Status of the Shark Fishery Ban in the Maldives and the Implementation of the National Plan of Action on Sharks- An update with notes on marine turtles (K. Ali)
 - IOTC–2016–WPEB12–21: Update of the Portuguese pelagic sharks research program in the Indian Ocean, including samples and data up to 2015 (R. Coelho, P. Lino and D. Rosa)
 - IOTC–2016–WPEB12–22: Growth, mortality and exploitation rates of shark species caught as bycatch in small-scale tuna fisheries in coastal Kenya (K.B. Kyalo)
 - IOTC–2016–WPEB12–23: Identification of fourteen pelagic shark species of the Indian ocean occurring around Sri Lanka; using morphological characters of their fins (R.A.M. Jayathilaka, S.S.K. Haputhanthri and H.A.C.C. Perera)
 - IOTC–2016–WPEB12–24: Shark caught by Thai tuna longline in the Indian Ocean during 2014-2015 (P. Luesrithawornsin, P. Lirdwitayaprasit and A. Wongkeaw)
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- IOTC–2016–WPEB12–39: Mitigation of Silky Shark Bycatch in Tropical Tuna Purse Seine Fisheries (ISSF)
 - IOTC–2016–WPEB12–35: Depredation in the Portuguese pelagic longline fleet in the Indian Ocean (R. Lechuga, D. Rosa & R. Coelho)
- 9.2. Review of mitigation measures contained in Resolution 13/06 for Oceanic whitetip shark
- IOTC–2016–WPEB12–25: Using FADs to estimate a population trend for the oceanic whitetip shark in the Indian Ocean (M. T. Tolotti, M. Capello, P. Bach, E. Romanov, H. Murua and L. Dagorn)
 - IOTC–2016–WPEB12–26: Hooking mortality of oceanic whitetip sharks caught in a pelagic longline fishery targeting swordfish in the SW Indian Ocean: comments on the efficiency of no-retention measures (R. Coelho)
 - IOTC-2016-WPEB12-37: Progress report on data mining for CITES-listed species, stock status and review of mitigation measures for Oceanic whitetip shark (*Carcharhinus longimanus*) (J.Rice)
- 9.3. Review of new information on the status of other sharks (all)
- Nominal and standardised CPUE indices
 - Selection of Stock Status indicators for other sharks
- 9.4. Development of management advice on the status of other shark stocks and update of other shark species Executive Summaries for the consideration of the Scientific Committee (all)
- Consideration of options for alternative management measures for other sharks in the IOTC area of competence

10. OTHER BYCATCH AND BYPRODUCT SPECIES INTERACTIONS

- 10.1. Review new information on other bycatch and byproduct, in terms of biology, ecology, fisheries interactions and bycatch mitigation measures (all)
- 10.2. Review of new information on the proposed retention of non-target species by various gears (all)
- 10.3. Marine turtles
- Review new information on marine turtle biology, ecology, fisheries interactions and bycatch mitigation measures (all);
 - IOTC–2016–WPEB12–27: Results from the First WCPFC Workshop on Joint Analysis of Sea Turtle Mitigation Effectiveness (S.Clarke, T.Peatman and S.Caillet)
 - Review of mitigation measures in 12/04 (all);
 - Development of management advice on the status of marine turtle species (all).
- 10.4. Seabirds
- Review new information on seabird biology, ecology, fisheries interactions and bycatch mitigation measures (all);
 - IOTC–2016–WPEB12–28: A status update of seabirds in the IOTC area (R. Wanless)
 - IOTC–2016–WPEB12–29: Interaction between seabirds and Spanish surface longline targeting swordfish in the Indian Ocean ($\geq 25^\circ$ South) during the period 2011-2015 (J. Fernández-Costa, A. Ramos-Cartelle, A. Carroceda and J. Mejuto)
 - IOTC–2016–WPEB12–30: Scoping Paper: Approaches for Measuring and Monitoring the Effectiveness of Seabird Conservation Measures in SBT Longline Fisheries (CCSBT Technical Group)
 - IOTC–2016–WPEB12–33: Lumo leads: a new, safe seabird mitigation device for pelagic longline fisheries (D.Rollinson)
 - IOTC–2016–WPEB12–34: ACAP advice for reducing the impact of pelagic longline fishing operations on seabirds (M. Favero, A. Wolfaardt and N. Walker)
 - IOTC–2016–WPEB12–31: ACAP seabird bycatch indicators, data needs, methodological approaches and reporting requirements (A. Wolfaardt, I. Debski, W. Misiak and N. Walker)
 - IOTC–2016–WPEB12–32: Data collection opportunities for assessing the use and effectiveness of seabird conservation measures (R.Wanless)
 - IOTC–2016–WPEB12–41: Addendum to the seabird identification cards for fishing vessels operating in the Indian Ocean (M.Moazzam, A.Riaz and R.Nawaz)
 - IOTC–2016–WPEB12–42: Incidental catch of seabirds and sea turtles by Taiwanese longline fleets in the Indian Ocean between 2009 and 2015 (H. Huang)
 - IOTC–2016–WPEB12–INF07: Examination of factors affecting seabird bycatch occurrence rate in southern hemisphere in Japanese longline fishery with using random forest (Y. Inoue, M. Kanaiwa, K.Yokawa, K. Oshima)

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- IOTC–2016–WPEB12–INF08: Modelling of bycatch occurrence rate of seabirds for Japanese longline fishery operated in southern hemisphere (Y. Inoue, M.Kanaiwa, K.Yokawa, K.Okamoto and K. Oshima)
 - IOTC–2016–WPEB12–INF09: Operational pattern of Japanese longliners in the south of 25S in the Atlantic and the Indian Ocean for the consideration of seabird bycatches (K.Yokawa, K. Oshima, Y. Inoue and N. Katsumata)
 - IOTC–2016–WPEB12–INF10: Information of seabirds bycatch in area south of 25 S latitude in 2010 from 2015 (N. Katsumata, K. Yokawa and K. Oshima)
 - Assessment of data submissions in response to IOTC circular 2016-043 (all);
 - Review of mitigation measures in 12/06 (all);
 - Development of management advice on the status of seabird species (all).

10.5. Marine mammals

- Review new information on marine mammal biology, ecology, fisheries interactions and bycatch mitigation measures (all);
- Development of management advice on the status of marine mammal species (all).

11. WPEB PROGRAM OF WORK

11.1. Revision of the WPEB Program of Work 2017–2021 (Chairperson and IOTC Secretariat)

- IOTC–2016–WPEB12–11: Revision of the WPEB Program of Work (2017–2021)

11.2. Development of priorities for an Invited Expert/s at the next Working Party on Ecosystems and Bycatch meeting (Chairperson)

12. OTHER BUSINESS

12.1. Update: Southern hemisphere stock status assessment of porbeagle shark (all)

12.2. Update: Ecosystem Based Fisheries Management (EBFM) joint meeting of tRFMOs (Chairperson)

12.3. Date and place of the 13th and 14th Sessions of the Working Party on Ecosystems and Bycatch (Chairperson and IOTC Secretariat)

12.4. Review of the draft, and adoption of the Report of the 12th Session of the Working Party on Ecosystems and Bycatch (Chairperson)