
DRAFT: ANNOTATED AGENDA FOR THE 15TH WORKING PARTY ON ECOSYSTEMS AND BYCATCH

Updated: 14th August 2019

Date: 3 - 7 September 2019

Location: La Saline Les Bains, REUNION ISLAND

Venue: TAMARUN, 8 rue des Argonautes, La saline Les Bains, La Reunion

Time: 09:00 – 17:00 daily

Chair: Dr Sylvain Bonhommeau (EU, France); **Vice-Chair:** Dr Reza Shahifar (I.R. Iran) & Dr Ross Wanless (South Africa)

1. **OPENING OF THE MEETING** (Chairperson)
2. **ADOPTION OF THE AGENDA AND ARRANGEMENTS FOR THE SESSION** (Chairperson)
 - IOTC-2019-WPEB15-01a: Draft: Agenda for the 15th Working Party on Ecosystems and Bycatch
 - IOTC-2019-WPEB15-01b: Draft: Annotated agenda for the 15th Working Party on Ecosystems and Bycatch
 - IOTC-2019-WPEB15-02: Draft: List of documents for the 15th Working Party on Ecosystems and Bycatch
3. **THE IOTC PROCESS: OUTCOMES, UPDATES AND PROGRESS**
 - 3.1 Outcomes of the 21st Session of the Scientific Committee (IOTC Secretariat)
 - IOTC-2019-WPEB15-03: Outcomes of the 21st Session of the Scientific Committee
 - 3.2 Outcomes of the 23rd Session of the Commission (IOTC Secretariat)
 - IOTC-2019-WPEB15-04: Outcomes of the 23rd Session of the Commission
 - 3.3 Review of Conservation and Management Measures relevant to Ecosystems and Bycatch (IOTC Secretariat)
 - IOTC-2019-WPEB15-05: Review of current Conservation and Management Measures relevant to ecosystems and bycatch
 - 3.4 Progress on the recommendations of WPEB14 (IOTC Secretariat)
 - IOTC-2019-WPEB15-06: Progress made on the recommendations and requests of WPEB14 and SC21
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-2019-WPEB15-07: Review of the statistical data available for bycatch species
 - IOTC-2019-WPEB15-08: Update on the implementation of the IOTC Regional Observer Scheme
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-2019-WPEB15-09: Status of development and implementation of National Plans of Action for seabirds and sharks, and implementation of the FAO guidelines to reduce marine turtle mortality in fishing operations (IOTC Secretariat)
- IOTC-2019-WPEB15-11: The National Plan of Action (NPOA)-Sharks Development Progress In Kenya: Status and Challenges (Oddenyo, R. M., Mueni, E., Kiilu, B., Wambiji, N., Abunge, C., Kodia, M. A., Obota, C., Musembi, P., Muthiga, N. And Bernard, J)

5.3. Species identification tools

- IOTC-2019-WPEB15-12: fishIDER, a new fish identification and training tool for Indonesia (White W)

6. NEW INFORMATION ON BIOLOGY, ECOLOGY, FISHERIES AND ENVIRONMENTAL DATA RELATING TO ECOSYSTEMS AND BYCATCH SPECIES

- ### 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)

7. INDICATORS FOR OCEANIC WHITETIP AND SHORTFIN MAKO SHARKS AND STOCK ASSESSMENT OF SILKY SHARK

- ### 7.1. Review new information on shark and ray biology, stock structure, bycatch mitigation measures, fisheries and associated environmental data (all);

- IOTC-2019-WPEB15-13: Species composition of elasmobranchs in the surface and subsurface gillnet operation in the Northern Arabian Sea (Moazzam M)
- IOTC-2019-WPEB15-14: Drivers of at-haulback mortality of sharks caught during pelagic longline fishing experiments (Massey, Sabarros P, Rabearisoa, Bach P)
- IOTC-2019-WPEB15-15: Data filtering of Japanese logbook data in the Indian Ocean for analysis of species-specific sharks's data from 1993 to 2018. (Kai M)
- IOTC-2019-WPEB15-45: Pelagic sharks by-catch in Indian tuna fishery in 2018 (Mathew A)
- IOTC-2019-WPEB15-49: Bycatch analysis in Tuna drift gillnet fishery of Pakistan; comparison of shark catches to target catch (Shahid U)

- ### 7.2. Review of new information on the status of sharks (all);

- IOTC-2019-WPEB15-16: The second progress report on the implementation of the IOTC bigeye thresher shark post-release mortality study project (IOTC BTH PRM Project)
- IOTC-2019-WPEB15-17: Status of sharks in Sri Lankan fisheries (Fernando D)
- IOTC-2019-WPEB15-18: Standardized CPUE of blue shark (*Prionace glauca*) caught by Indonesian longline fleet in the Eastern Indian Ocean. (Jatmiko I)

- ### 7.3. Potential methods for data-limited stock assessment

- ### 7.4. Review of the indicators for the oceanic whitetip shark

- IOTC-2019-WPEB15-19: Second progress report on the post release mortality of the oceanic whitetip shark (POREMO project) discarded by EU purse seine and pelagic longline fisheries (Bach P, Sabarros P, Coelho R, Murua H, Krug I, Romanov E)

- ### 7.5. Review of the indicators for the shortfin mako shark

- IOTC-2019-WPEB15-21: Standardized CPUE of shortfin mako caught by Japanese longline fishery in the Indian Ocean from 1993 to 2018. (Kai M and Semba Y)
- IOTC-2019-WPEB15-22: Standardized CPUE of shortfin mako shark by Taiwanese large-scale tuna longline fishery in the Indian Ocean (Tsai W-P)

- IOTC-2019-WPEB15-20: Estimate of intrinsic rate of natural increase (r) of shortfin mako (*Isurus oxyrinchus*) based on life history parameters from Indian Ocean.(Semba Y, Yokoi H, and Kai M)

7.6. Review of the proposed stock assessment of silky shark

- IOTC-2019-WPEB15-24: Preliminary standardized catch rate of silky sharks caught by the Taiwanese large-scale longline fishery in the Indian Ocean (Tsai W-P)
- IOTC-2019-WPEB15-23: Silky Shark Population Trend in the Indian Ocean Derived from its Associative behaviour with Floating Objects (Tolotti M et al.)

7.7. Recommendations and executive summary for silky shark

8. ECOSYSTEM MODELING AND REPORT CARDS (recommendations from the SC / decisions of the Commission)

8.1. Report of the “Identification of regions in the IOTC convention area to inform the implementation of the ecosystem approach to fisheries management” Workshop.

- IOTC-2019-WPEB15-25: In Support of the IOTC Ecosystem Report Card: Indicators for Non-Retained Sharks and Rays (Tolotti M et al.)
- IOTC-2019-WPEB15-26: Three Ecosystem Indicators to Monitor the Ecological Impacts of Purse Seine Fisheries Operating in the Indian Ocean (Andonegi E)
- IOTC-2019-WPEB15-27: Developing ecosystem approach indicators, for assess Tuna fishing pressure component in the IOTC area of competence (Shahifar R)
- IOTC-2019-WPEB15-28: The development of the seabird component of the IOTC ecosystem report card. (Wolfaardt A et al)
- IOTC-2019-WPEB15-29: Selecting ecosystem indicators for fisheries targeting highly migratory species: An EU project to advance the operationalization of the EAFM in ICCAT and IOTC (Juan-Jorda M-J)
- IOTC-2019-WPEB15-30: In support of the IOTC ecosystem report card: advances in monitoring the impacts on and the state of the “foodweb and trophic relationships” ecosystem component (Juan-Jorda M-J)
- IOTC-2019-WPEB15-31: SIOTI support for the development of an ecosystem approach to fisheries management for Indian Ocean tuna fisheries (Juan-Jorda M-J)
- IOTC-2019-WPEB15-32: In support of the IOTC ecosystem report card: Monitoring the status of the ocean climate and environment, variability and trends (Marsac F and Shahifar R)
- IOTC-2019-WPEB15-50: In Support of the IOTC Ecosystem Report Card: Indicators for Marine Debris (Zudaire I, Grande M, Murua H, Ruiz I and Juan-Jorda M-J)

9. BYCATCH, SPECIES INTERACTIONS, AND ECOSYSTEM RISK ASSESSMENTS

9.1. Review new information on other bycatch and by-product, in terms of biology, ecology, fisheries interactions and bycatch mitigation measures (all)

- IOTC-2019-WPEB15-33: Progress on the Code of Good Practices on the Tropical Tuna Purse Seine Fishery in the Indian Ocean (Grande M, Ruiz J, Murua J, Murua H, Goñi N, Krug I, Salgado A, Arregui I, Zudaire I, Santiago J.)
- IOTC-2019-WPEB15-34: Preliminary Results of the Biofad Project: Testing Designs and Identifying Options to Mitigate Impacts of Drifting Fish Aggregating Devices on the Ecosystem (Tolotti M et al.)
- IOTC-2019-WPEB15-35: Depredation of purpleback flying squid (*Sthenoteuthis oualaniensis*) on tuna caught by gillnet fisheries in the Northern Arabian Sea: a major cause of concern for fishermen (Moazzam M)
- IOTC-2019-WPEB15-36: Present Status of threatened and conserved species entanglement in multiday tuna fishery in Sri Lanka (Jayasinghe R.P.P.K., Bandaranayake K.H.K., Weerasekera S.J.W.W.M.M.P., and Haputhantri S.S.K.)

- IOTC-2019-WPEB15-37: Towards improvement in monitoring, reporting and management of Fish Aggregating Devices in the Indian Ocean Purse Seine Tuna Fishery (Nieblas A-E)
- IOTC-2019-WPEB15-38: Preliminary evaluation of degradability for natural material ropes potentially used on fish aggregating devices (FADs) in tuna purse seine fishery (Zhou C)
- IOTC-2019-WPEB15-39: Hook and bait type effects on surface pelagic longline retention and hooking mortality rates: A meta-analysis for target, bycatch and vulnerable fauna interactions (Santos C C, Rosa D and Coelho R)
- IOTC-2019-WPEB15-40: Analysing the bycatch taxonomic structure changes from observers data on board Spanish purse seiners in the Indian Ocean (Báez J C, Ramos M L and Abascal F)
- IOTC-2019-WPEB15-46: Bycatch landings in Phuket Ports by foreign tuna longline fishing vessel, 2018 (Hoimuk S, Maeroh K and Somkliang N)
- IOTC-2019-WPEB15-48: Issues related to adoption of subsurface gillnetting to reduce bycatch in Pakistan (Moazzam M and Khan M F)
- IOTC-2019-WPEB15-51: Ecological Impacts of Tuna Fisheries of Lakshadweep, the Archipelagic Territory of India Situated in the Central Indian Ocean (Koya M, Abdul Azeez P, Rohit P, Abdussamad E M, and Rajesh K M)

9.2. Seabirds

- Review new information on seabird biology, ecology, fisheries interactions and bycatch mitigation measures (all);
- IOTC-2019-WPEB15-41: ACAP advice for reducing the impact of pelagic fishing operations on seabirds (ACAP Secretariat)
- IOTC-2019-WPEB15-47: Report of the Final Global Seabird Bycatch Assessment Workshop: Seabird Component (ABNJ/Birdlife)
- IOTC-2019-WPEB15-INF13: Towards mitigation of seabird bycatch in longline pelagic fisheries: do current mitigation measures have an effect? (Jimenez S, Domingo A, Winker H, Parker D, Gianuca D, Neves T, Coelho R and Kerwath S)

9.3. Marine turtles (all)

- Review new information on marine turtle biology, ecology, fisheries interactions and bycatch mitigation measures (all);
- IOTC-2019-WPEB15-42: Machine learning approach to estimate species composition of unidentified sea turtles that were recorded on the Japanese longline observer program (Okamoto K, Kanaiwa M, and Ochi D)

9.4. Marine mammals (all)

- Review new information on marine mammal biology, ecology, fisheries interactions and bycatch mitigation measures (all);
- IOTC-2019-WPEB15-44: Guidelines for best practice in the safe and humane handling and release of bycaught small cetaceans from fishing gear (Hamer D)
 - Development of management advice on the status of marine mammal species (all).
 - Report on the IWC meeting on bycatch
- IOTC-2019-WPEB15-43: Report of the IWC Workshop on Bycatch Mitigation Opportunities in the Western Indian Ocean and Arabian Sea (IWC)

10. WPEB PROGRAM OF WORK

10.1. Revision of the WPEB Program of Work 2020–2024 (Chairperson and IOTC Secretariat)

- IOTC-2019-WPEB15-10: Revision of the WPEB Program of Work (2020–2024)

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

11. OTHER BUSINESS

- 11.1. Update: Progress on work promoting the regional observer scheme of IOTC (IOTC Secretariat)
- 11.2. Date and place of the 16th and 17th Sessions of the Working Party on Ecosystems and Bycatch (Chairperson and IOTC Secretariat)
- 11.3. Election of a Chairperson and Vice-Chairperson for the next biennium (IOTC Secretariat)
- 11.4. Review of the draft, and adoption of the Report of the 15th Session of the Working Party on Ecosystems and Bycatch (Chairperson)