

## LIST OF DOCUMENTS FOR THE 15<sup>TH</sup> WORKING PARTY ON ECOSYSTEMS AND BYCATCH

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IOTC-2019-WPEB15-01a_Rev1	Agenda of the 15th Working Party on Ecosystems and Bycatch
IOTC-2019-WPEB15-01b_Rev4	Annotated agenda of the 15th Working Party on Ecosystems and Bycatch
IOTC-2019-WPEB15-02_Rev5	List of documents of the 15th Working Party on Ecosystems and Bycatch
IOTC-2019-WPEB15-03	Outcomes of the 21 <sup>st</sup> Session of the Scientific Committee (IOTC Secretariat)
IOTC-2019-WPEB15-04	Outcomes of the 23rd Session of the Commission (IOTC Secretariat)
IOTC-2019-WPEB15-05	Review of Conservation and Management Measures relevant to ecosystems and bycatch (IOTC Secretariat)
IOTC-2019-WPEB15-06	Progress made on the recommendations and requests of WPEB14 and SC21 (IOTC Secretariat)
IOTC-2019-WPEB15-07_Rev2	Review of the statistical data and fishery trends for ecosystems and bycatch species (IOTC Secretariat)
IOTC-2019-WPEB15-08_Rev1	Update on the implementation of the IOTC Regional Observer Scheme (IOTC Secretariat)
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-WPEB15-10	Revision of the WPEB Program of Work (2020–2024) (IOTC Secretariat & Chairperson)
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.)
IOTC-2019-WPEB15-12	fishIDER, a new fish identification and training tool for Indonesia (White W)
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_Rev1	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-WPEB15-16_Rev1	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 ( <i>Prionace glauca</i> ) caught by Indonesian longline fleet in the Eastern Indian Ocean. (Jatmiko I)
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)
IOTC-2019-WPEB15-20	Estimate of intrinsic rate of natural increase ( <i>r</i> ) of shortfin mako ( <i>Isurus oxyrinchus</i> ) based on life history parameters from Indian Ocean.(Semba Y, Yokoi H, and Kai M)
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-WPEB15-23_Rev1	Silky Shark Population Trend in the Indian Ocean Derived from its Associative behaviour with Floating Objects (Tolotti M et al.)

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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-WPEB15-25_Rev1	In Support of the IOTC Ecosystem Report Card: Indicators for Non-Retained Sharks and Rays (Tolotti M et al.)
IOTC-2019-WPEB15-26_Rev1	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-WPEB15-33	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 ( <i>Sthenoteuthis oualaniensis</i> ) 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-WPEB15-41	ACAP advice for reducing the impact of pelagic fishing operations on seabirds (ACAP Secretariat)
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)
IOTC-2019-WPEB15-43	Report of the IWC Workshop on Bycatch Mitigation Opportunities in the Western Indian Ocean and Arabian Sea (IWC)
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)
IOTC-2019-WPEB15-45_Rev1	Pelagic sharks by-catch in Indian tuna fishery in 2018 (Mathew A)
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-WPEB15-47	Report of the Final Global Seabird Bycatch Assessment Workshop: Seabird Component (ABNJ/Birdlife)
IOTC-2019-WPEB15-48	Issues related to adoption of subsurface gillnetting to reduce bycatch in Pakistan (Moazzam M and Khan M F)

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IOTC-2019-WPEB15-49 WITHDRAWN	Bycatch analysis in Tuna drift gillnet fishery of Pakistan; comparison of shark catches to target catch (Shahid U)
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)
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)
<b>Information papers</b>	
IOTC-2019-WPEB15-INF01	Draft ecoregions for the IOTC convention area and main outcomes from the 2019 IOTC Ecoregions Workshop (Juan-Jorda M-J)
IOTC-2019-WPEB15-INF02	Draft ecoregions for the IOTC convention area, proposed in preparation for the 2019 IOTC Ecoregions Workshop: "Identification of regions in the IOTC convention area to inform the implementation of the ecosystem approach to fisheries management" (Nieblas, A-E, Juan Jorda M-J, Murua H, Fiorellato F and de Bruyn P.)
IOTC-2019-WPEB15-INF03	Global spatial risk assessment of sharks under the footprint of fisheries (Queiroz, N. et al)
IOTC-2019-WPEB15-INF04	A Preliminary Stock Assessment for the Silky Shark in the Indian Ocean Using a Data-Limited Approach (J. Ortiz de Urbina, T. Brunel, R. Coelho, G. Merino, D. Rosa, C. Santos, H. Murua, P. Bach, S. Saber, D. Macias)
IOTC-2019-WPEB15-INF05	A Preliminary Stock Assessment for the Shortfin Mako Shark in the Indian Ocean Using Data-Limited Approaches (T. Brunel, R. Coelho, G. Merino, J. Ortiz de Urbina, D. Rosa, C. Santos, H. Murua, P. Bach, S. Saber, D. Macias)
IOTC-2019-WPEB15-INF06	Potential Indicator for Non-Retained Sharks in Support of an ICCAT Ecosystem Report Card (Coelho R, Santos C, Rosa D and Lino P G.)
IOTC-2019-WPEB15-INF07	IOTC manual for tagging bigeye thresher shark (BTH) with pop-up satellite archival tags (PSAT) to evaluate post-release mortality (PRM) - English
IOTC-2019-WPEB15-INF08	IOTC manual for tagging bigeye thresher shark (BTH) with pop-up satellite archival tags (PSAT) to evaluate post-release mortality (PRM) - Chinese
IOTC-2019-WPEB15-INF09	Crew based observer programme of WWF-Pakistan-a source of data collection on cetacean bycatch (Moazzam M)
IOTC-2019-WPEB15-INF10	Occurrence and Distribution of Leatherback Turtle ( <i>Dermochelys coricea</i> ) in the Coastal and Offshore waters of Pakistan (Moazzam M and Nawaz R)
IOTC-2019-WPEB15-INF11	Distribution and abundance of loggerhead turtles ( <i>Caretta caretta L.</i> ) from Pakistan (Moazzam M and Nawaz R)
IOTC-2019-WPEB15-INF12	The Distribution of Whales in the Northern Arabian Sea along the Coast of Pakistan Obtained through Crew-Based Observer Programme- Results of the 2018 fishing season Pakistan (Moazzam M and Nawaz R).
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)
IOTC-2019-WPEB15-INF14	Important Marine Mammal Areas (IMMAs) in the Indian Ocean (di Sciara G, Hoyt E, Tetley M, Minton G, Martin J and Dulau V)
IOTC-2019-WPEB15-INF15	Collaboration between longline fisheries and a sea turtle care centre in Reunion Island (Barret M, Jean C, Dalleau M, Hoarau L and Ciccione S)
IOTC-2019-WPEB15-INF16	Bycatch and Ecosystem-based management in the Southeast United States (Porch C)
IOTC-2019-WPEB15-INF17	Important Marine Mammal Areas" Western and North East Indian Ocean, South East Asian Seas and Arabian Seas (IMMA team)