

## LIST OF DOCUMENTS FOR THE 20<sup>TH</sup> WORKING PARTY ON ECOSYSTEMS AND BYCATCH

Document	Title
IOTC-2024-WPEB20(DP)-01a	Agenda of the 20th Working Party on Ecosystems and Bycatch
IOTC-2024-WPEB20(DP)-01b_rev3	Annotated agenda of the 20th Working Party on Ecosystems and Bycatch Assessment Meeting
IOTC-2024-WPEB20(DP)-02_rev3	List of documents of the 20th Working Party on Ecosystems and Bycatch Assessment Meeting
IOTC-2024-WPEB20(DP)-03	Review of the statistical data and fishery trends for ecosystems and bycatch species (IOTC Secretariat)
IOTC-2024-WPEB20(DP)-04	A review of reported effects of pelagic longline fishing gear configurations on target, bycatch and vulnerable species (C. C. Santos, D. Rosa, J. M. S. Gonçalves and R. Coelho)
IOTC-2024-WPEB20(DP)-05	A cross-taxa assessment of pelagic longline bycatch mitigation measures: conflicts and mutual benefits to elasmobranchs (E. Gilman, M. Chaloupka, Y. Swimmer and S. Piovano)
IOTC-2024-WPEB20(DP)-07	What's the catch? Examining optimal longline fishing gear configurations to minimise negative impacts on non-target species (M. Scott, E. Cardona, K. Scidmore-Rossing, M. Royer, J. Stahl and M. Hutchinson)
IOTC-2024-WPEB20(DP)-08	Technical mitigation techniques to reduce bycatch of sharks: there is no silver bullet (D. Drynan and G. B. Baker).
IOTC-2024-WPEB20(DP)-09	Statistical and Monte Carlo Analysis of the Hawaii Deep-Set Longline Fishery with Emphasis on Take and Mortality of Oceanic Whitetip Shark (K. Bigelow and F. Carvalho)
IOTC-2024-WPEB20(DP)-10	Review of potential mitigation measures to reduce fishing-related mortality on silky and oceanic whitetip sharks (Project 101) (K. Bigelow and F. Carvalho)
IOTC-2024-WPEB20(DP)-11	A review of the influence of wire leaders and shark lines on shark bycatch in pelagic longline fisheries (B. D'Alberto, H. Patterson and D. Bromhead)
IOTC-2024-WPEB20(DP)-12	A review of the effect of circle hooks on retention and at-haulback mortality (B. Keller and J. Reinhardt)
IOTC-2024-WPEB20(DP)-13	Multifaceted effects of bycatch mitigation measures on target/non-target species for pelagic longline fisheries and consideration for bycatch management (D. Ochi, K. Okamoto and S. Uneo)
IOTC-2024-WPEB20(DP)-14	Effect of pelagic longline bait type on species selectivity: a global synthesis of evidence (E. Gilman, M. Chaloupka, P. Bach, H. Fennell, M. Hall, M. Musyl, S. Piovano, F. Poisson and L. Song)

Document	Title
IOTC-2024-WPEB20(DP)-15	Quantitative estimates of post-release survival rates of sharks captured in Pacific tuna longline fisheries reveal handling and discard practices that improve survivorship (M. Hutchinson, Z. Siders, J. Stahl and K. Bigelow)
IOTC-2024-WPEB20(DP)-16	Review of research on future projections and potential mitigation measures to reduce fishing related mortality on oceanic whitetip sharks (J. Rice)
IOTC-2024-WPEB20(DP)-17	A summary of key information pertaining to pelagic shark catches, status and management in the IOTC (H. Patterson, B. D'Alberto, and D. Bromhead)
IOTC-2024-WPEB20(DP)-19	Information on the catch of shortfin mako ( <i>Isurus oxyrinchus</i> ) caught by Japanese longline fishery in the Indian Ocean after 2018 (Y. Semba and M. Kai)
IOTC-2024-WPEB20(DP)-20	Updated fishery indicators for shortfin mako shark ( <i>Isurus oxyrinchus</i> ) caught by the Portuguese pelagic longline fishery in the Indian Ocean, between 1999-2022: Catch, effort and standardised CPUEs (R. Coelho, D. Rosa and P. G. Lino)
IOTC-2024-WPEB20(DP)-21	Updated standardized catch rates of shortfin mako ( <i>Isurus oxyrinchus</i> ) inferred from the Spanish surface longline fishery in the Indian Ocean during the period 2001-2022 (J. Fernández-Costa, A. Ramos-Cartelle, B. García-Cortés and J. Mejuto)
IOTC-2024-WPEB20(DP)-22	Historical standardised CPUEs for the Indian Ocean shortfin mako ( <i>Isurus oxyrinchus</i> ) for 1966 through 1989 with catch estimation (E. Gee, E. V. Romanov, D. Curnick, B. Block and F. Ferretti)
<b>Information papers</b>	
IOTC-2023-WPEB19-23	A review of the effectiveness of gear modifications to reduce shark bycatch mortality in longlining (I. Ziegler)
IOTC-2023-WPEB19-20	Historical standardised CPUEs of seven shark species in the Indian Ocean with preliminary catch estimation (E. Gee, E. Romanov, D. Curnick, B. Block and F. Ferretti)
IOTC-2024-WPEB20(DP)-INF01	Bycatch mitigation of protected and threatened species in tuna purse seine and longline fisheries (Y. Swimmer, E. A. Zollett and A. Gutierrez)
IOTC-2024-WPEB20(DP)-INF02	Bycatch in longline fisheries for tuna and tuna-like species: a global review of status and mitigation measures (S. Clarke, M. Sato, C. Small, B. Sullivan, Y. Inoue and D. Ochi)
IOTC-2024-WPEB20(DP)-INF03	Robbing Peter to pay Paul: Replacing unintended cross-taxa conflicts with intentional tradeoffs by moving from piecemeal to integrated fisheries bycatch management (E. Gilman, M. Chaloupka, L. Dagorn, M. Hall, A. Hobday, M. Musyl, T. Pitcher, F. Poisson, V. Restrepo and P. Suuronen)
IOTC-2024-WPEB20(DP)-INF04	Identification of factors influencing shark catch and mortality in the Marshall Islands tuna longline fishery and management implications (D. Bromhead, S. Clarke, S. Hoyle, B. Muller, P. Sharples and S. Harley)

Document	Title
IOTC-2024-WPEB20(DP)-INF05	Analyses of the Potential Influence of Four Gear Factors (leader type, hook type, “shark” lines and bait type) on shark catch rates in WCPO tuna longline fisheries (D. Bromhead, J. Rice and S. Harley)
IOTC-2024-WPEB20(DP)-INF06	Shark bycatch and mortality and hook bite-offs in pelagic longlines: Interactions between hook types and leader materials (A. S. Afonso, R. Santiago, H. Hazin and F. H. V. Hazin)
IOTC-2024-WPEB20(DP)-INF07	Fisheries bycatch of Sharks: Options for Mitigation (A. Cosandey-Godin and A. Morgan)
IOTC-2024-WPEB20(DP)-INF08	Monte Carlo simulation modelling of possible measures to reduce impacts of longlining on oceanic whitetip and silky sharks (S. Harley, B. Caneco, C. Donovan, L. Tremblay-Boyer and S. Brouwer)
IOTC-2024-WPEB20(DP)-INF09	Effects of leader material on catches of shallow pelagic longline fisheries in the southwest Indian Ocean (M. N. Santos, P. G. Lino and R. Coelho)
IOTC-2024-WPEB20(DP)-INF10	Large-scale experiment shows that nylon leaders reduce shark bycatch and benefit pelagic longline fishers (P. Ward, E. Lawrence, R. Darbyshire and S. Hindmarsh)
IOTC-2024-WPEB20(DP)-INF11	Catch rate and at-vessel mortality of circle hooks versus J-hooks in pelagic longline fisheries: A global meta-analysis (J. Reinhardt, J. Weaver, P. J. Latham, A. Dell’Apa, J. E. Serafy, J. A. Browder, M. Christman, D. G. Foster and D. R. Blankinship)
IOTC-2024-WPEB20(DP)-INF12	Fishing gear modifications to reduce elasmobranch mortality in pelagic and bottom longline fisheries off northeast Brazil (A. S. Afonso, F. H. V. Hazin, F. Carvalho, J. C. Pacheco, H. Hazin, D. W. Kertstetter, D. Murie and G. H. Burgess)
IOTC-2024-WPEB20(DP)-INF13	Effects of hook and bait on targeted and bycatch fishes in an equatorial Atlantic pelagic longline fishery (R. Coelho, M. N. Santos and S. Amorim)
IOTC-2024-WPEB20(DP)-INF14	The effect of hook type and trailing gear on hook shedding and fate of pelagic stingray ( <i>Pteroplatytrygon violacea</i> ): New insights to develop effective mitigation approaches (F. Poisson, S. Catteau, C. Chiera and J-M. Groul)
IOTC-2024-WPEB20(DP)-INF15	The effect of circle hooks vs J hooks on the at-haulback survival in the US Atlantic pelagic longline fleet (G. A. Diaz)
IOTC-2024-WPEB20(DP)-INF16	Influence of hook type on catch of commercial and bycatch species in an Atlantic tuna fishery (H-W. Huang, Y. Swimmer, K. Bigelow, A. Gutierrez and D. G. Foster)
IOTC-2024-WPEB20(DP)-INF17	Circle hooks in commercial, recreational and artisanal fisheries: research status and needs for improved conservation and management (J. E. Serafy, S. J. Cooke, G. A. Diaz, J. E. Graves, M. Hall, M. Shivji and Y. Swimmer)
IOTC-2024-WPEB20(DP)-INF18	Circle hook effectiveness for the mitigation of sea turtle bycatch and capture of target species in a Brazilian pelagic longline fishery (G. Sales, B. B. Giffoni, F. N. Fiedler, V. G. Azevedo, J. E. Kotas, Y. Swimmer and L. Bugoni)
IOTC-2024-WPEB20(DP)-INF19	Effects of 17/0 circle hooks and bait on sea turtles bycatch in a Southern Atlantic swordfish longline fishery (M. N. Santos, R. Coelho, J. Fernandez-Carvalho and S. Amorim)

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IOTC-2024-WPEB20(DP)-INF20	Individual and fleetwide bycatch thresholds in regional fisheries management frameworks (E. Gilman, M. Chaloupka, L. Bellquist, H. Bowlby and N. Taylor)
IOTC-2024-WPEB20(DP)-INF21	Phylogeny explains capture mortality of sharks and rays in pelagic longline fisheries: A global meta-analytic synthesis (E. Gilman, M. Chaloupka, L. R. Benaka, H. Bowlby, M. Fitchett, M. Kaiser and M. Musyl)
IOTC-2024-WPEB20(DP)-INF22	Global governance guard rails for sharks: Progress towards implementing the United Nations international plan of action (E. Gilman, M. Chaloupka, N. Taylor, L. Nelson, K. Friedman and H. Murua)
IOTC-2024-WPEB20(DP)-INF23	Postrelease survival, vertical and horizontal movements, and thermal habitats of five species of pelagic sharks in the Central Pacific Ocean (M. Musyl, R. Brill, D. S. Curran, N. M. Fragoso and L. McNaughton)
IOTC-2024-WPEB20(DP)-INF24	Modeling bycatch abundance in tropical tuna purse seine fisheries on floating objects using the $\Delta$ method (A. Dumont, A. Duparc, P. S. Sabarros, D. M. Kaplan)
IOTC-2024-WPEB20(DP)-INF25	Draft terms of reference for a consultancy to develop a research prioritisation plan for scalloped hammerhead shark
IOTC-2024-WPEB20(DP)-INF26	Assessing the effects of hook, bait and leader type as potential mitigation measures to reduce bycatch and mortality rates of shortfin mako: a meta-analysis with comparisons for target, bycatch and vulnerable fauna interactions (D. Rosa, C. C. Santos and R. Coelho)
IOTC-2018-WPEB14-37	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 and D. Macias)
IOTC-2024-WPEB20(DP)-INF27	Future Stock Projections of Oceanic Whitetip Sharks in the Western and Central Pacific Ocean (Update on Project 101) (K. Bigelow, J. Rice and F. Carvalho)