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**ADOPTED: ANNOTATED AGENDA FOR THE 11<sup>TH</sup> WORKING PARTY ON ECOSYSTEMS AND BYCATCH**

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**Date:** 7–11 September 2015

**Location:** Olhão, Portugal

**Venue:** Real Marina Hotel and Spa

**Time:** 09:00 – 17:00 daily

**Chair:** Dr Rui Coelho; **Vice-Chair:** Dr Evgeny Romanov

1. **OPENING OF THE MEETING** (Chairperson)
2. **ADOPTION OF THE AGENDA AND ARRANGEMENTS FOR THE SESSION** (Chairperson)
  - IOTC-2015-WPEB11-01a: Draft: Agenda for the 11<sup>th</sup> Working Party on Ecosystems and Bycatch
  - IOTC-2015-WPEB11-01b: Draft: Annotated agenda for the 11<sup>th</sup> Working Party on Ecosystems and Bycatch
  - IOTC-2015-WPEB11-02: Draft: List of documents for the 11<sup>th</sup> Working Party on Ecosystems and Bycatch
3. **THE IOTC PROCESS: OUTCOMES, UPDATES AND PROGRESS**
  - 3.1 Outcomes of the 17<sup>th</sup> Session of the Scientific Committee (IOTC Secretariat)
    - IOTC-2015-WPEB11-03: Outcomes of the 17<sup>th</sup> Session of the Scientific Committee
  - 3.2 Outcomes of the 19<sup>th</sup> Session of the Commission (IOTC Secretariat)
    - IOTC-2015-WPEB11-04: Outcomes of the 19<sup>th</sup> Session of the Commission
  - 3.3 Review of Conservation and Management Measures relevant to Ecosystems and Bycatch (IOTC Secretariat)
    - IOTC-2015-WPEB11-05: Review of current Conservation and Management Measures relevant to ecosystems and bycatch
  - 3.4 Progress on the recommendations of WPEB10 (IOTC Secretariat)
    - IOTC-2015-WPEB11-06: Progress made on the recommendations of WPEB10 and SC17
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-2015-WPEB11-07 Rev\_1: Review of the statistical data available for bycatch species
    - IOTC-2015-WPEB11-41: Proposal for a bycatch data exchange protocol (Clarke S & Nicol S)
  - 4.2. Regional Observer Scheme – Update (IOTC Secretariat)
    - IOTC-2015-WPEB11-08: 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-2015-WPEB11-09 Rev\_1: 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-2015-WPEB11-11: The Seychelles NPOA Sharks 2007-2010 Review (Assan C)
    - IOTC-2015-WPEB11-12 Rev\_1: 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 turtles and seabirds (Ali K)

## 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)
- IOTC–2015–WPEB11–13 Rev\_1: Iranian fishing vessels bycatch in the IOTC area of competence in 2014 (Shahifar R)
  - IOTC–2015–WPEB11–14: Landing bycatch of tuna longline fishery landed at Phuket Province, Thailand (Panjarat S, Hoimuk S, Jaiyen T, Rodpradit S & Singtongyam W)
  - IOTC–2015–WPEB11–15: Optimal fishing time window: an approach to mitigate bycatch in longline fisheries (Auger L, Trombetta T, Sabarros PS, Rabearisoa N, Romanov E & Bach P)
  - IOTC–2015–WPEB11–16: ObServe: Database and operational software for longline and purse seine fishery data (Cauquil P, Rabearisoa N, Sabarros PS, Chavance P & Bach P)
  - IOTC–2015–WPEB11–39: Environmental impacts and causation of ‘beached’ Drifting Fish Aggregating Devices around Seychelles Islands: a preliminary report on data collected by Island Conservation Society (Balderson SD & Martin LEC)
  - IOTC–2015–WPEB11–40: Preliminary review of ICCAT, WCPFC, IOTC and IATTC progress in applying ecosystem based fisheries management (Juan-Jordá MJ, Arrizabalaga H, Restrepo V, Dulvy NK, Cooper AB & Murua H)
  - IOTC–2015–WPEB11–42: Summary of the Indian Ocean elasmobranch tagging programs (Romanov EV)
  - IOTC–2015–WPEB11–48: Update on the catch and bycatch composition of illegal fishing in the British Indian Ocean Territory (UK(OT)) and a summary of abandoned and lost fishing gear (Moir Clark J, Duffy H, Pearce J & Mees CC)

## 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 (IOTC Secretariat)
- IOTC–2015–WPEB11–46: An update on the Shark by-catch of tuna gillnet fisheries of Pakistan (Shahid U, Khan MM & Nawaz R)
- 7.2. Update on training conducted for CPCs having gillnet fleets on species identification, bycatch mitigation and data collection methods (IOTC Secretariat)
- 7.3. Development of plans of action for future training on species identification, bycatch mitigation and data collection for gillnet fleets and also to identify 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–2015–WPEB11–22: Distribution patterns of sizes and sex-ratios of blue shark in the Indian Ocean (Coelho R, Yokawa K, Liu K-M, Romanov E, da Silva C, Bach P, Lino PG, Ohshimo S, Tsai W-P & Santos MN)
  - IOTC–2015–WPEB11–23: Blue shark (*Prionace glauca*) length composition from the Indonesian longline fleet in the Indian Ocean: period 2005–2014 (Novianto D, Rochman F, Bahtiar A, Nugraha B & Jatmiko I)
  - IOTC–2015–WPEB11–51: Estimation of appropriate reporting ratio for the blue shark caught by Japanese longliner in the Indian Ocean (Kai M & Yoakawa K)
  - IOTC–2015–WPEB11–24: Historical Catch Estimate Reconstruction for the Indian Ocean based on Shark Fin Trade Data (Clarke S)
- 8.2. Review of new information on the status of blue shark (all)
- Nominal and standardised CPUE indices
  - IOTC–2015–WPEB11–25: Standardized catch rates for the blue shark (*Prionace glauca*) caught by the Spanish surface longline fleet in the Indian Ocean during the 2001-2013 period (Fernández-Costa J, Ramos-Cartelle A, García-Cortés B & Mejuto J)

- IOTC–2015–WPEB11–26: Update of blue shark catches and standardized CPUE for the Portuguese pelagic longline fleet in the Indian Ocean: exploring the effects of targeting (Coelho R, Lino PG, Rosa D & Santos MN)
  - IOTC–2015–WPEB11–30 Rev\_1: Update of standardized CPUE of blue shark (*Prionace glauca*) in the Indian Ocean estimated from observer data in the period between 1992 and 2014 (Semba Y, Kanaiwa M & Yokawa K)
  - IOTC–2015–WPEB11–50: Update of CPUE and catch for blue shark caught by Japanese longliner during 1971-1993 in the Indian Ocean (Kai M & Okamoto H)
  - IOTC–2015–WPEB11–52 Rev\_1: Updated and revised standardized catch rate of blue sharks caught by the Taiwanese longline fishery in the Indian Ocean (Tsai W-P & Liu K-M)
    - Stock assessments (including data poor approaches)
  - IOTC–2015–WPEB11–27: Preliminary stock assessment of blue shark (*Prionace glauca*) caught in Indian Ocean using a Bayesian State-Space Production Model (Andrade HA)
  - IOTC–2015–WPEB11–49: Stock assessment of blue shark (*Prionace glauca*) in the Indian Ocean (IOTC Secretariat)
  - IOTC–2015–WPEB11–28: Stock assessment blue shark (*Prionace glauca*) in the Indian Ocean using Stock Synthesis (Rice J & IOTC Secretariat)
    - 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–2015–WPEB11–17: A preliminary value chain analysis of shark fisheries in Madagascar (Cripps G, Harris A, Humber F, Harding S & Thomas T)
  - IOTC–2015–WPEB11–18 Rev\_1: Impact of policies on the conservation of sharks in the large pelagic fishery (Jayathilaka RAM & Maldeniya R)
  - IOTC–2015–WPEB11–19: Do common thresher sharks *Alopias vulpinus* occur in the tropical Indian Ocean? (Romanov E)
  - IOTC–2015–WPEB11–21 Rev\_1: Shark catch characteristics by Malagasy longliners (from 2010 to 2014) (Joachim DL & Razafimandimby Y)
  - IOTC–2015–WPEB11–29: Interactions of oceanic whitetip sharks with the tuna purse seine fisheries in the Indian Ocean (Travassos Tolotti M, Bach P, Romanov E & Dagorn L)
- 9.2. Review of new information on the status of other sharks (all)
- Nominal and standardised CPUE indices
  - Selection of Stock Status indicators for other sharks
- 9.3. 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–2015–WPEB11–31: Proceedings of the Regional Symposium on Sea Turtle Conservation in Asia (Anon)

- IOTC–2015–WPEB11–32: Analysis of marine turtle mitigation measure effectiveness in tuna longline fisheries (Clarke S, Nicol S, Swimmer Y & IOTC Secretariat)
- IOTC–2015–WPEB11–47: An assessment of marine turtle bycatch in the tuna gillnet fisheries of Pakistan (Shahid U, Khan MM, Nawaz R & Dimmlich W)
  - 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–2015–WPEB11–33 Rev\_1: A need for improved reporting on seabird bycatch in the longline fishery (Angel A, Wanless R & Small C)
- IOTC–2015–WPEB11–34: New approaches for better understanding seabird bycatch in tuna longline fisheries (Wanless R & Small C)
- IOTC–2015–WPEB11–35: ACAP summary advice for reducing the impact of pelagic longline fishing on seabirds (ACAP Secretariat)
- IOTC–2015–WPEB11–36: Estimation of seabird bycatch rates and numbers (Wolfaardt A & Debski I) (on behalf of the Seabird Bycatch Working Group of ACAP)
- IOTC–2015–WPEB11–37 Rev\_1: Preliminary analyses; evaluation of the effects of the newly employed seabird bycatch regulation for longline fisheries in IOTC conventional area with using current observer data (Inoue Y, Yokawa K & Minami H)
- IOTC–2015–WPEB11–38 Rev\_1: Progress of the development of the DNA identification for the southern albatross bycatch in longline fishery (Inoue Y, Alderman R, Taguchi M, Sakuma K, Kitamura T, Phillips RA, Burg TM, Small C, Sato M, Papworth W & Minami H)
  - 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);
- IOTC–2015–WPEB11–43 Rev\_1: Preliminary study of cetacean depredation on pelagic longline fisheries using passive acoustic monitoring off Reunion Island (Foulgoc LL, Richard E, Condet M, Philippe J-B, Roussel E, Chompret J & Clorennec D)
- IOTC–2015–WPEB11–44 Rev\_1: Indicators of depredation impacting Reunion Island pelagic longline fishery (Rabearisoa N, Sabarros PS, Romanov E & Bach P)
- IOTC–2015–WPEB11–45 Rev\_1: Depredation and incidental catches in longline fishery of southern Mozambique: Preliminary information on ecosystem issues based on observer onboard sampling (Mutombene RJ)
  - 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 2016–2020 (Chairperson and IOTC Secretariat)
  - IOTC–2015–WPEB11–10: Revision of the WPEB Program of Work plan (2016–2020)
- 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. Southern hemisphere stock status assessment of porbeagle shark (Chairperson and IOTC Secretariat)
- 12.2. Ecosystem Based Fisheries Management (EBFM) joint meeting of tRFMOs in 2016 (Chairperson and IOTC Secretariat)
- 12.3. Election of a Chairperson and Vice-Chairperson for the WPEB for the next biennium (IOTC Secretariat)
- 12.4. Date and place of the 12<sup>th</sup> and 13<sup>th</sup> Sessions of the Working Party on Ecosystems and Bycatch (Chairperson and IOTC Secretariat)
- 12.5. Review of the draft, and adoption of the Report of the 11<sup>th</sup> Session of the Working Party on Ecosystems and Bycatch (Chairperson)