
**DRAFT ANNOTATED AGENDA FOR THE NINTH WORKING PARTY ON
ECOSYSTEMS AND BYCATCH**

Updated: 12 September 2013

Date: 12–16 September 2013

Location: Espace TAMARUN

Reunion Island, France

Time: 09:00 – 17:00 daily

Chair: Dr. Charles Anderson; **Vice-Chair:** Dr. Evgeny Romanov

1. **OPENING OF THE MEETING** (Chair)
2. **ADOPTION OF THE AGENDA AND ARRANGEMENTS FOR THE SESSION** (Chair)
 - IOTC-2013-WPEB09-01a: Draft agenda for the Ninth Working Party on Ecosystems and Bycatch
 - IOTC-2013-WPEB09-01b: Draft annotated agenda for the Ninth Working Party on Ecosystems and Bycatch
 - IOTC-2013-WPEB09-02: Draft list of documents
3. **OUTCOMES OF THE FIFTEENTH SESSION OF THE SCIENTIFIC COMMITTEE**
 - IOTC-2013-WPEB09-03: Outcomes of the Fifteenth Session of the Scientific Committee (Secretariat)
4. **OUTCOMES OF SESSIONS OF THE COMMISSION**
 - 4.1. Outcomes of the Seventeenth Session of the Commission (Secretariat)
 - IOTC-2013-WPEB09-04: Outcomes of the Seventeenth Session of the Commission (Secretariat)
 - 4.2. Review of Conservation and Management Measures relevant to Ecosystems and Bycatch (Secretariat)
 - IOTC-2013-WPEB09-05: Review of current Conservation and Management Measures relevant to ecosystems and bycatch (Secretariat)
5. **PROGRESS ON THE RECOMMENDATIONS OF WPEB08**
 - IOTC-2013-WPEB09-06: Progress made on the recommendations of WPEB08 (Secretariat and Chair)
6. **REVIEW OF DATA AVAILABLE ON ECOSYSTEMS AND BYCATCH**
 - 6.1. Review of the statistical data available for ecosystems and bycatch species (Secretariat)
 - IOTC-2013-WPEB09-08: Review of the statistical data available for bycatch species
 - 6.2. Progress on reporting and outcomes from Compliance Committee (enforcement measures taken) (Secretariat)
 - IOTC-2013-WPEB09-09: Progress on reporting and outcomes from Compliance Committee (Secretariat)
 - 6.3. Regional Observer Scheme – Update
 - IOTC-2013-WPEB09-10: Update on the implementation of the IOTC Regional Observer Scheme (Secretariat)
7. **NEW INFORMATION ON BIOLOGY, ECOLOGY, FISHERIES AND ENVIRONMENTAL DATA RELATING TO ECOSYSTEMS AND BYCATCH SPECIES**
 - 7.1. Review new information on environment and ecosystem interactions, including climate change issues affecting pelagic ecosystems in the IOTC area of responsibility
 - 7.2. Data from other sources (papers from CPCs)
8. **REVIEW OF NATIONAL BYCATCH ISSUES IN IOTC MANAGED FISHERIES AND NATIONAL PLANS OF ACTION** (in particular for sharks and seabirds)
 - IOTC-2013-WPEB09-07: Status of development and implementation of National Plans for Action for Seabirds and Sharks
 - IOTC-2013-WPEB09-45: Provision of scientific advice for the purpose of the implementation of the EUPOA sharks. Final Report. European Commission, Studies for Carrying out the Common Fisheries Policy (MARE/2010/11 - LOT 2) (H. Murua, F.J. Abascal, J. Amade, J. Ariz, P. Bach, P. Chavance, R. Coelho, M. Korta, F. Poisson, M.N. Santos & B. Seret)
9. **GILLNET FISHERIES: PROBLEMS AND NEEDS** (recommendations from the SC / decisions of the Commission)
 - 9.1. Regional review of the data available for gillnet fleets operating in the Indian Ocean in view of decision of SC14.91: “The SC RECOMMENDED that the Commission considers allocating funds to support a regional review of the data available for gillnet fleets operating in the Indian Ocean. The scientists from all CPCs having gillnet fleets in the Indian Ocean should provide at the next session of the WPEB, a report summarising the known information on

bycatch in their gillnet fisheries, including sharks, marine turtles and marine mammals, with estimates of their likely order of magnitude where more detailed data are not available.”

- 9.2. Training for CPCs having gillnet fleets on species identification, bycatch mitigation and data collection methods and also to identify other potential sources of assistance – Development of plans of action.
- IOTC–2013–WPEB09–15: An update on shark bycatch of tuna gillnet fisheries of Pakistan (M. Khan, R. Nawaz, K. Mehmood, R. Narwaz & U. Shahid)
 - IOTC–2013–WPEB09–40: Estimation of bycatch and discard by Iranian fishing vessels (Gillnets) in IOTC area of competence in 2012 (R. Shahifar, H.R. Barghahi, R. Noori. & S. Khorshidi)

10. SHARKS AND RAYS

- 10.1. Review new information on the biology, stock structure, bycatch mitigation measures, fisheries and associated environmental data (all):
- Shark bycatch mitigation in longline gear: effect of terminal gear on shark bycatch: leaders (wire vs. monofilament), hooks / hooks sizes (circle vs. tuna vs. J-hooks). Review of regional research results and/or open discussion / results from other oceans. Best practices of shark handling / live release: circle hooks, wire leaders, live release. Shark post-release mortality in the longline fisheries.
 - Shark bycatch mitigation in purse seine gear: sharks in nets (whale shark, other species); sharks and FADs. Review of regional research results and/or open discussion / results from other oceans. Best practices of shark handling / live release. Shark post-release mortality in the purse seine fisheries.
 - IOTC–2013–WPEB09–12: Size distribution and sex ratio of scalloped hammerhead sharks (*Sphyrna lewini*) in Indian Ocean at southern part of Java and Nusa Tenggara, Indonesia (D.D. Kembaren, U. Chodrijah & A. Suman)
 - IOTC–2013–WPEB09–13: Shark bycatch - small scale tuna fishery interactions along the Kenyan coast (K.B. Kyalo & S. Ndegwa)
 - IOTC–2013–WPEB09–14 Rev_1: Sharks caught by Malagasy longline in 2012 (D.M. Rahombanjanahary)
 - IOTC–2013–WPEB09–16 Rev_1: Summary of the transshipment of shark products by longliners in the Indian Ocean (S.M. Martin, J.C. Moir, J. Pearce & C.C. Mees)
 - IOTC–2013–WPEB09–17: Sharks: Bycatch in the tuna longline fishery in the Indian Ocean by Thai tuna longliners in 2012 (P. Luesrithawornsin & A. Wongkeaw)
 - IOTC–2013–WPEB09–18: Status of shark fishery in Sri Lanka (H.L.N.S. Herath & R. Maldeniya)
 - IOTC–2013–WPEB09–19 Rev_1: EU project for the provision of scientific advice for the purpose of the implementation of the EUPOA sharks: a brief overview of the results for Indian Ocean (H. Murua, M.N. Santos, P. Chavance, J. Amade, B. Seret, F. Poisson, J. Ariz, F.J. Abascal, P. Bach, R. Coelho & M. Korta)
 - IOTC–2013–WPEB09–20: Shark bycatch by dropline gear in the north coast of Mozambique: Results of the acoustic/dropline survey conducted from 25th October to 07th November 2012 (R.J. Mutombene)
 - IOTC–2013–WPEB09–21: Looking behind the curtain: quantifying massive shark mortality in fish aggregating devices (J.D. Filmlalter, M. Capello, J.-L. Deneubourg, P.D. Cowley & L. Dagorn)
- 10.2. Stock status indicators for sharks and rays (all)
- Historical data series for sharks and rays (in particular for blue shark and oceanic whitetip shark)
 - Stock indicators for sharks and rays (in particular for blue shark and oceanic whitetip shark)
 - Ecological Risk Analysis: review of efforts taken in 2012, potential management implications and direction for further progress
 - Other indicators
 - IOTC–2013–WPEB09–22: Standardized CPUE series for blue and shortfin mako sharks caught by the Portuguese pelagic longline fishery in the Indian Ocean, between 1999 and 2012 (R. Coelho, M.N. Santos & P.G. Lino)
 - IOTC–2013–WPEB09–44: Consideration to improve tasks for CPUE standardisation and stock assessments of sharks in the IOTC-WPEB meetings (Anon)
- 10.3. Review of data needs and way forward for the evaluation of shark stocks (all)
- 10.4. Development of technical advice on the status of the shark stocks (all)
- 10.5. Update of shark species Executive Summaries for the consideration of the Scientific Committee (all)

11. MARINE TURTLES

- 11.1. Review of data available at the Secretariat for marine turtles (Secretariat)
- 11.2. Review new information on marine turtle biology, ecology, fisheries interactions and bycatch mitigation measures (all)
- IOTC–2013–WPEB09–24: IOTC / IOSEA reports give insights into Indian Ocean fisheries-turtle interactions (D. Hykle & P. Migraine)
 - IOTC–2013–WPEB09–25: Post nesting migration of green turtle (*Chelonia mydas*) in the western Indian Ocean (J. Bourjea, S. Ciccione, S. Behamou, & M. Dalleau)
 - IOTC–2013–WPEB09–26: Movement and diving behaviour of late juvenile loggerhead sea turtles (*Caretta caretta*) in the western Indian Ocean (M. Dalleau, S. Behamou, J. Sudre, S. Ciccione & J. Bourjea)
- 11.3. Review of new information on the status of marine turtles (all)

- Ecological Risk Analysis: Analysis: review of efforts taken in 2012, potential management implications and direction for further progress
- Other indicators
- IOTC–2013–WPEB09–23: Ecological Risk Assessment and Productivity - Susceptibility Analysis of sea turtles overlapping with fisheries in the IOTC region (R. Nel, R.M. Wanless, A. Angel, B. Mellet & L. Harris)

11.4. Review of Resolution 12/04 *On the conservation of marine turtles* (all)

11.5. Development of technical advice for marine turtles (all)

11.6. Update of marine turtle species Executive Summary for the consideration of the Scientific Committee (all)

12. SEABIRDS

12.1. Review of data available at the Secretariat for seabirds (Secretariat)

12.2. Review new information on seabird biology, ecology, fisheries interactions and bycatch mitigation measures (all)

- IOTC–2013–WPEB09–27: The incidental catch of seabirds in gillnet fisheries: A global review (R. Zydalis, C. Small & G. French)

12.3. Review of new information on the status of seabirds (all)

12.4. Review of Resolution 12/06 *On Reducing the Incidental Bycatch of Seabirds in Longline Fisheries* (all)

12.5. Development of technical advice for seabirds (all)

12.6. Update of seabird Executive Summary for the consideration of the Scientific Committee (all)

13. MARINE MAMMALS

13.1. Review new information on marine mammal biology, ecology, fisheries interactions and bycatch mitigation measures (all)

- Purse seine (bycatch/non-bycatch interactions)
- Gillnet (bycatch)
- Longline (bycatch and depredation):
 - Review of available data and new information on depredation
 - Requirement for improvement of the data on depredation
 - Possible consequences of depredation on stock assessment

- IOTC–2013–WPEB09–28: An assessment of cetacean mortality in the gillnet fishery of the Northern Arabian Sea (M. Moazzam)

- IOTC–2013–WPEB09–29: Proposal for species identification guide for cetaceans (whale and dolphins) occurring in the Indian Ocean (M. Moazzam)

- IOTC–2013–WPEB09–30: Risso's Dolphins (*Gampus griseus*): impact of the Sri Lankan tuna gillnet fishery (R.C. Anderson)

- IOTC–2013–WPEB09–47: Assessment of depredation level in Reunion Island pelagic longline fishery based on information from self-reporting data sampling programme (E.V. Romanov, P.S. Sabarros, L. Le Foulgoc, E. Richard, J.-P. Lamoureux & P. Bach)

13.2. Review of Resolution 00/02 *On a survey of predation of longline caught fish*

13.3. Development of technical advice for marine mammals (all)

14. OTHER BYCATCH AND BYPRODUCT SPECIES INTERACTIONS

14.1. Review new information on other bycatch and byproduct biology, ecology, fisheries interactions and bycatch mitigation measures (all)

- IOTC–2013–WPEB09–31: Targeting bigger schools can reduce ecosystem impacts of fisheries (L. Dagorn, J.D. Filmlalter, F. Forget, M.J. Amandè, M.A. Hall, P. Williams, H. Murua, J. Ariz, P. Chavance, and N. Bez)
- IOTC–2013–WPEB09–32: An overview of the bycatch landed by local and foreign tuna longliners in Mauritius for the period 2009 to 2012 (S. Beeharry, Z. Dhurmeea & T. Sooklall)
- IOTC–2013–WPEB09–33: Commonly discarded fishes on Indonesian tuna longline fishery in Indian Ocean (I. Jatmiko, B. Setyadji & B. Nugraha)
- IOTC–2013–WPEB09–34: Is it good or bad to fish with FADs? What are the real impacts of the use of drifting FADs on pelagic marine ecosystems? (L. Dagorn, K.N. Holland, V. Restrepo & G. Moreno)
- IOTC–2013–WPEB09–35: The bycatch records of sharks, marine turtles and marine mammals by the Malaysian tuna longliners and the Malaysian coastal fisheries (S. Basir, M.N. Nordin & N.A. Mokhtar)
- IOTC–2013–WPEB09–36: Pelagic megafauna bycatch in the tuna longline fisheries off India (S.P. Varghese, K. Vijayakumaran & D.K. Gulati)
- IOTC–2013–WPEB09–37 Rev_1: Commercial catch and discards of pelagic longline fishery of Reunion Island based on the self-reporting data collection program (P.S. Sabarros, E. Romanov, L. Le Foulgoc, E. Richard, J.-P. Lamoureux & P. Bach)
- IOTC–2013–WPEB09–38: How much do fish aggregating devices (FADs) modify the floating object environment in the ocean? (L. Dagorn, N. Bez, T. Fauvel & E. Walker)

- IOTC–2013–WPEB09–39: The capture depth of the dominate bycatch species and the relationship between their catch rates and the sea surface temperature (J. Li, L. Song & D. Li)
- IOTC–2013–WPEB09–41: Buoy gear – a potential for bycatch reduction in the small-scale swordfish fisheries: a Florida experience and Indian Ocean perspective (E.V. Romanov, D. Kerstetter, T. Moor & P. Bach)
- IOTC–2013–WPEB09–42: Self-reporting data collection project for the pelagic longline fishery based in La Reunion (P. Bach, P. Sabarros, L. Le Foulgoc, E. Richard, J.P. Lamoureux & E. Romanov)
- IOTC–2013–WPEB09–43: Comparing observer data with video monitoring on a French purse seiner in the Indian Ocean (P. Chavance, A. Batty, H. Mc Elderry, L. Dubroca, P. Dewals, P. Cauquil, V. Restrepo & L. Dagorn)
- IOTC–2013–WPEB09–46 Rev_1: Catch and bycatch composition of illegal fishing in the British Indian Ocean Territory (BIOT) (S.M. Martin, J.M. Clark, J. Pearce & C.C. Mees)

14.2. Development of technical advice for other bycatch and byproduct species (all)

15. RESEARCH RECOMMENDATIONS AND PRIORITIES

15.1. Revision of the WPEB work plan (Chair)

- IOTC–2013–WPEB09–11: Revision of the WPEB work plan (Secretariat & Chair)

15.2. Format of future WPEB Sessions

16. OTHER BUSINESS

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

16.2. Date and place of the Tenth Session of the Working Party on Ecosystems and Bycatch (Chair and Secretariat)

16.3. Election of a Chairperson and Vice-Chairperson for the next biennium

16.4. Review of the draft, and adoption of the Report of the Ninth Session of the Working Party on Ecosystems and Bycatch (Chair)