

INTERAMERICAN TROPICAL TUNA COMMISSION
2ND MEETING OF THE PERMANENT WORKING GROUP ON ECOSYSTEM AND BYCATCH

2nd MEETING

La Jolla, California, USA

5- 6 June 2024

BRIEF REPORT OF THE MEETING

The 2nd Meeting of the Permanent Working Group on Ecosystem and Bycatch was held in La Jolla, California (USA) on June 5 and 6, 2024. It was co-chaired by Dr. Yonat Swimmer, and Mr. Manuel Correia, in their capacity as co-chairs of the working group. The list of participants is included in Annex 1.

The meeting agenda that was adopted without changes is attached as Annex 2.

The list of documents presented and discussed during the meeting can be consulted on the website of the 8th meeting of the Working Group, as well as the corresponding presentations.

Meeting documents:

- [EB-02-01 - Ecosystem considerations](#)
- [EB-02-02 - Review of T-RFMO Ecosystem research to inform a workplan on EcoCards for the EPO](#)
- [EB-02-03 - Workplan towards the adoption of best handling and release practices for vulnerable species In IATTC fisheries](#)
- [SAC-15-09 - Sharks species under the purview of the IATTC](#)
- [SAC-15-10 - Shark sampling program](#)
- [SAC-15-11 - Best handling and release practice guidelines for sharks](#)
- [SAC-15-12 - Climate change workplan for the IATTC](#)

Presentaciones:

- [EB-02-01 Ecosystem Considerations](#) EN
- [EB-02-02 Review of t-RFMO ecosystem research to inform a workplan on EcoCards](#) EN
- [EB-02-03 Workplan towards the adoption of best handling and release practices for vulnerable species In IATTC fisheries](#) EN
- [Influence of environmental variability on the distribution of silky sharks](#) EN
- [Informing the spatial management of Silky shark](#) EN
- [Inputs for Multispecies Fisheries Bycatch MSE](#) EN
- [Mobulid ray sorting grids](#) EN
- [New Best Release Practice Guidelines PS](#) EN
- [Post release survival of mobulid rays in purse seine fisheries](#) EN
- [Progress in addressing key research to inform Mobulid ray conservation in the Pacific Ocean](#) EN
- [Relative efficacies of branchline weighting designs at mitigating seabird bycatch in pelagic longline fisheries](#) EN
- [SAC-15-09 and 10 Development of a Draft list of shark species under the purview of the IATTC](#) EN
- [SAC-15-11 Best handling and release practice guidelines for sharks](#) EN
- [SAC-15-12 Climate change workplan for the IATTC](#) EN
- [Seabird Bycatch Mitigation Experiments](#) EN
- [Spatio-temporal distribution of large of large pelagic fishes in the EPO](#) EN

As a result of the group's work, several recommendations were agreed upon and are published on the Working Group meeting website as document [EB-02 Recommendations adopted by the working group](#) as well as an Annex 3.

It is expected that the 3rd meeting of the ecosystem and bycatch working group will take place in June 2025 at the time of the meetings of the Scientific Advisory Committee.

Annex 1 Participants List

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Annex 2

AGENDA

- 1. Opening of the meeting**
- 2. Adoption of the agenda**
- 3. Review of recommendations from the 1st meeting of the Ecosystem and Bycatch Working Group (EBWG)**
 - a. Brief discussion on circle hook size to resolve C-19-04 (Co-Chairs)
- 4. Updates on Ecosystem and Bycatch Activities**
- 5. Ecosystem**
 - a1. Ecosystem considerations report (L. Fuller, IATTC Staff) [EB-02-01](#)
 - a2. Review of t-RFMO ecosystem research to inform a workplan on EcoCards for the EPO (L. Fuller, IATTC Staff) [EB-02-02](#)
 - a3. Inputs for holistic bycatch management strategy evaluation (E. Gilman, Blue Ocean Institute)
 - a4. Spatio-temporal distribution of the richness of large pelagic fishes in the Eastern Pacific Ocean (Buenfil-Avila, Aura et al, Instituto Politécnico Nacional-CICIMAR, Mexico).
- 5.b. Climate Change**
 - b.1. A climate change workplan for the IATTC (D. Crear, IATTC Staff) [SAC-15-12](#)
- 5.c. Eslamobranchs**
 - c.1 Lista de especies de tiburones de competencia de la CIAT (re: Res C-23-07) (SAC 15-09, S. Griffiths, personal de la CIAT)
 - c.2. Modelo conceptual del tiburón sedoso (B. Talwar, The Nature Conservancy y Scripps Institution of Oceanography de UCSD)
 - c.3 Avances en la conservación de Mobúlidos: un proyecto en colaboración con la flota de EE. UU. (Moreno/Cronin, ISSF)
 - c.4 Efecto de la variabilidad ambiental en la distribución del tiburón sedoso (*Carcharhinus falciformis*) capturado en el océano Pacífico oriental. (M. Martinez et al., Instituto Politécnico Nacional-CICIMAR, Mexico)
- 5.d. Seabirds**
 - d.1. Synthesizing a network of evidence on a seabird bycatch mitigation measure prescribed by regional fisheries management organizations (M. Chaloupka & E. Gilman, Blue Ocean Institute)
 - d.2. Seabird bycatch mitigation trials in U.S. Pacific Ocean longline fisheries (A. Ishizaki-West Pac Fish Mgt Council, US)
- 5.e. Best practices**
 - e.1. Best handling and releasing practices: roadmap for vulnerable species (EB 02-03, M. Hutchinson, IATTC Staff) [SAC-15-11](#)
 - e.2. Best handling and release practices for sharks in IATTC fisheries (re: Res C-23-07) (SAC 15-11, M. Hutchinson, IATTC Staff) [EB-02-03](#)
 - e.3. Selective sorting grids for improved best handling and release practices of large mobulid rays in tropical tuna purse seiners (J. Murua, AZTI, ISSF, Duke Univ.)
 - e.4. Updated best handling and release practice guidelines for vulnerable species in tropical tuna purse seine fisheries (J. Murua, AZTI, ISSF).
 - e.5. Mobulid post-release survival in purse seine fisheries: Implications for best handling and release practices (J. Stewart, The Manta Trust)
- 6. Recommendations to the Scientific Advisory Committee**

7. **Other business**
8. **Adjournment**

DRAFT

INTER-AMERICAN TROPICAL TUNA COMMISSION
WORKING GROUP ON ECOSYSTEMS AND BYCATCH
2ND MEETING
La Jolla, California (USA)
05-06 June 2024

RECOMMENDATIONS ADOPTED BY THE WORKING GROUP

The EBWG recommends that:

1. Sea Turtles

- 1.1. A second circle hook workshop be conducted that will fulfill the mandate of paragraph 3(d)(i) of Res. C-19-04.
- 1.2. Advice be provided by the workshop on the impacts of fishing operations on the form and structure (i.e., longevity and integrity) of circle hooks of various sizes and from different manufacturers.
- 1.3. The workshop include development of a third mitigation measure as described in Paragraph 3(d)(iii) of C-19-04 for small coastal multi-species vessel fleets as well as best handling and release practices for sea turtles.

2. Mobulid Rays

- 2.1. The use of sorting grids be considered on purse seine vessels to mitigate impacts to Mobulid rays.
- 2.2. Captain workshops include training on the use of sorting grids and encourage their voluntary use.
- 2.3. The Commission endorse the Best Handling and Release Practices (BHRP) guideline development workplan for rays, and sorting grids be included in handling and release guidelines in resolution C-15-04 Annex 1, point 5 as another alternative for the release of rays.

3. Climate Change and EcoCards Workplans

- 3.1. The SAC and the Commission consider the further development of the proposed Climate Change and EcoCards Workplans, and encourage that this work be done in collaboration with expertise from other tuna RFMOs.
- 3.2. Final workplan proposals be submitted to the Commission, along with proposed budgets.

4. Hammerhead Sharks

Considering the benefits of understanding the ecology and spatial population structure of target and bycatch species in various assessment efforts, including close-kin mark-recapture (CKMR) and conventional stock assessment, a conceptual model of life history, ecology, and spatial population structure be developed for three hammerhead sharks species *Sphyrnalewini*, *S. zygaena* and *S. mokarran* similar to the one described in Talwar et al. (2024; presentation EB-02 5.c.2) for silky shark.

5. Fleet Characteristics

The Staff, in coordination with the CPCs, develop and present to the Commission the results of a process to characterize and classify the longline fleets and their fisheries in the Convention Area, distinguishing their dynamics and differentiated impacts, as well as the catchability of species, whether directed, associated or incidental.

6. Meeting Process

The SAC and Commission consider that, in the Rules of Procedure, a provision be added to the effect that, while appreciating the improvements introduced in the dynamics of the meetings of the SAC and related working groups, meeting documents and presentations should be made available through posting on the Commission web site at least 2 weeks before the start of the corresponding cycle of meetings, in both Spanish and English

7. Seabirds

The below described Seabird Action Plan (see Annex 1) be adopted, with the understanding that an intersessional meeting will be held prior to the third meeting of the EBWG.

8. Shark species list

- 8.1. For the purposes of Art VII, paragraph f) of the Antigua Convention, the preliminary list of 19 species of sharks presented by the IATTC Staff be adopted [see attached], understanding that this list is based upon species of interest due to their interactions and catchability associated with fisheries under IATTC management.
- 8.2. The SAC consider the inclusion in the list of:
 - the crocodile shark, *Pseudocarcharias kamohari*;
 - rays, manta rays and mobulas of interest.

Annex 1 Seabird Action Plan (with timeline)

2024:

1. IATTC Scientific Staff will conduct a seabird assessment for presentation at the EBWG in 2025, including but not limited to:
 - a. Comparison between C-11-02 and mitigation measures in other tRFMOs.
 - b. Update of [SAR-7-05b]: spatial distributions of seabird species in the IATTC Convention Area, including any geographic hotspots for these species, overlap with LL fishing effort, and conservation statuses
 - c. Overview of mitigation measures in use by CPCs in the IATTC Convention Area as required in paragraph 5 of C-11-02. This should account for all CPCs, including any that may have vessels fishing in areas where bycatch mitigation measures are not required.
 - d. Summary of observed and estimated seabird bycatch rates in the IATTC Convention Area, including geographic information where possible, noting that data are limited.

2025:

2. At the 2025 EBWG, the IATTC Scientific Staff will present the results of its assessment for discussion by CPCs.
3. Between EBWG 2025 and the 2025 IATTC plenary, interested CPCs will coordinate intersessionally on a draft proposal updating C-11-02.
4. Proposed sponsors will present the updated seabird proposal for adoption at the 103rd meeting of the IATTC in 2025.

Annex 2 List of shark species

	Family / Familia	Species / nombre científico	Common name	Nombre común
1	Alopiidae	<i>Alopias pelagicus</i>	Pelagic thresher	Zorro pelágico
2	Alopiidae	<i>Alopias superciliosus</i>	Bigeye thresher	Zorro ojón
3	Alopiidae	<i>Alopias vulpinus</i>	Common thresher	Tiburón zorro pinto
4	Carcharhinidae	<i>Carcharhinus brachyurus</i>	Copper shark	Tiburón cobrizo
5	Carcharhinidae	<i>Carcharhinus falciformis</i>	Silky shark	Tiburón sedoso
6	Carcharhinidae	<i>Carcharhinus galapagensis</i>	Galapagos shark	Tiburón de Galápagos
7	Carcharhinidae	<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	Tiburón punta blanca oceánico
8	Lamnidae	<i>Carcharodon carcharias</i>	Great white shark	Jaquetón blanco
9	Cetorhinidae	<i>Cetorhinus maximus</i>	Basking shark	Peregrino
10	Galeocerdonidae	<i>Galeocerdo cuvier</i>	Tiger shark	Tintorera tigre
11	Lamnidae	<i>Isurus oxyrinchus</i>	Shortfin mako shark	Mako de aleta corta
12	Lamnidae	<i>Isurus paucus</i>	Longfin mako shark	Marrajo carite
13	Lamnidae	<i>Lamna ditropis</i>	Salmon shark	Marrajo salmón
14	Lamnidae	<i>Lamna nasus</i>	Porbeagle shark	Marrajo sardinero
15	Carcharhinidae	<i>Prionace glauca</i>	Blue shark	Tiburón azul
16	Rhincodontidae	<i>Rhincodon typus</i>	Whale shark	Tiburón ballena
17	Sphyrnidae	<i>Sphyrna lewini</i>	Scalloped hammerhead shark	Cornuda común
18	Sphyrnidae	<i>Sphyrna mokarran</i>	Great hammerhead	Cornuda gigante
19	Sphyrnidae	<i>Sphyrna zygaena</i>	Smooth hammerhead shark	Cornuda cruz

The species below was recommended by 2nd_EBWG *La siguiente especie fue recomendada por el 2do_EBWG*

20	Pseudocarchariidae	<i>Pseudocarcharias kamoharui</i>	Crocodile shark	Tiburón cocodrilo
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