

## SC 12 – WP 08

### CLIMATE CHANGE TASK TEAM

#### Terms of Reference and Workplan

#### SUMMARY

In 2023, the Scientific Committee (SC) was required to address climate change at all annual meetings, focusing on data and analyses that illustrate its potential impacts. The SC will also recommend adaptations or new conservation and management measures (CMMs) for climate resilience in the Convention Area. This document outlines the objectives and terms of reference for the Task Team (TT) assigned to this effort. The main objectives of the TT include identifying limitations in current advice for adaptation and resilience to climate change impacts, proposing solutions and developing a research plan.

#### Introduction

In 2023, the Scientific Committee has been mandated to include climate change as an agenda item at all its annual meetings. Under this agenda item, the SC will highlight analyses and data collection programmes that best illustrate the potential impacts of climate change. The SC has also been asked to make recommendations to the Commission on how to design existing conservation and management measures (CMMs) or propose new CMMs for adaptation and resilience to climate change impacts in the Convention Area. This document sets forth the objectives of the task team and its terms of reference for the activities to come.

#### 1. Terms of Reference

The objective of the TT is to identify ways in which climate change limits the confidence or relevance of advice SC currently provides to the Commission; propose work to address those limitations and draft a research plan to implement such work within the framework of the SC.

The TT has the following Terms of Reference (TR):

1. Review current SPRFMO's CMMs and identify limitations for adaptation to climate change impacts and resilience in the Convention area.
2. Propose guidelines to address the identified limitations.
3. Propose climate change related tasks for the multiannual workplan 2025.

#### 2. Workplan

##### First general meeting (TBD)

Planning of coordination web meetings with other fisheries or international organisations developing Climate Change plans, e.g:

##### MoU with SPRFMO

- Western and Central Pacific Fisheries Commission (WCPFC)
- North Pacific Fisheries Commission (NPFC)
- Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR)
- Comisión Permanente del Pacífico Sur (CPPS)

**Commented [DC1]:** Suggest an initial form letter to RFMOs under MOUS SPRFMO has, asking for information on what they are doing with respect to CC

**Commented [EE2]:** I recall having a conversation about FAO? CPPS? which are not fishing organisations

**Commented [UI3R2]:** Also, there are other (some very large) national programs that are undertaking similar issues, e.g., <https://www.npfmc.org/about-the-council/plan-teams/bering-sea-fishery-ecosystem-plan-team/#climate-change>

**Commented [EE4R2]:** Could that come from Members?

**Commented [EE5]:** Suggestion based on being and adjacent area



- Inter-American Tropical Tuna Commission (IATTC)

#### Other organisations

- General Fisheries Commission for the Mediterranean (GFCM)
- Northwest Atlantic Fisheries Organization (NAFO)
- South-East Atlantic Fisheries Organisation (SEAFO)
- International Commission for the Conservation of Atlantic Tunas (ICCAT)
- Red de Investigación de Estresores Marinos – Costeros en Latinoamérica y el Caribe (REMARCO)
- Global Ocean Acidification Observing Network (GOA-ON)
- International Atomic Energy Agency (IAEA)
- IOC-UNESCO
- UN DOALOS on the Regular Process of the World Ocean Assessments
- Food and Agriculture Organization of the United Nations (FAO)
- Fisheries and Marine Ecosystem Model Intercomparison Project (FishMIP)
- World Meteorological Organization.
- UNFCCC UN Framework Convention on Climate Change
- [North-East Atlantic Fisheries Commission](#)

#### Second general meeting (~ May 2025)

#### Terms of reference and agenda for pre-SC workshop (no later than 26 May 2025)

#### Pre-SC workshop (2 days, September 2025)

#### Report to SC13 (Late document including SC workshop discussions)

### 3. References

García-Soto, Carlos, Denise Breitburg, Monica Campillos, Patricia Castillo-Briceno, Sanae Chiba, Matthew Collins, Ganix Esnaola, et al. 2021. «Chapter 9: Pressures from changes in climate and atmosphere.» En *The Second World Ocean Assessment, WORLD OCEAN ASSESSMENT II, Volume II:55-76*. New York: United Nations. <https://doi.org/10.18356/9789216040062>

Ramos JE, Tam J, Aramayo V, Briceño FA, Bandin R, Buitron B, et al. 2022. Climate vulnerability assessment of key fishery resources in the Northern Humboldt Current System. *Sci Rep.* 12(1):1–16. <https://doi.org/10.1038/s41598-022-08818-5>

**Commented [EK6]:** We can discuss about:

- 1) Identified needed and gaps in each SC Working Group regarding with climate changes. Examples: Increase knowledge environmental-resource, more variables behind temperature to analyses in each fisheries, other indexes, etc.
- 2) Identified species/fisheries and areas more vulnerable to climate changes and forecasts. See Ramos et al (2022) and see comment below.
- 3) Development early and warning message to provide better information by SC to SPRFMO to take better decisions about fisheries management in climate change context.

**Commented [jf7R6]:** It is essential to assess vulnerability by considering the sensitivity and exposure of each species to climate change. This approach was employed by Ramos et al. (2022) in the Humboldt Ecosystem to identify potential vulnerabilities.

Ramos JE, Tam J, Aramayo V, Briceño FA, Bandin R, Buitron B, et al. Climate vulnerability assessment of key fishery resources in the Northern Humboldt Current System. *Sci Rep [Internet]. 2022;12(1):1–16*. Available from: <https://doi.org/10.1038/s41598-022-08818-5>

**Commented [CP8]:** Maybe 2 days for a more transversal space to discuss Climate Change under multi-stressors, species, and ecosystemic perspectives