INTER-AMERICAN TROPICAL TUNA COMMISSION

2nd WORKSHOP ON IMPROVING THE RISK ANALYSIS FOR TROPICAL TUNAS IN THE EASTERN PACIFIC OCEAN: MODEL WEIGHTING IN INTEGRATED STOCK ASSESSMENTS

(by videoconference)
28 November-2 December 2022

ANNOUNCEMENT

BACKGROUND AND OBJECTIVES

Fisheries conservation and management decisions must take into consideration the persisting existence of a substantial uncertainty in fishery stock assessments. That uncertainty derives from multiple sources, such as sampling error, process variation, model structure uncertainty, parameter estimation uncertainty etc. It can occur in the way the population dynamic processes are understood or in the understanding of how the population is observed (the observation models). It is in that context that the Commission decided in its recently adopted Resolution C-21-04 to:

> "39. *Review, during the year 2022, the weighting process and risk analysis implemented for bigeye tuna and yellowfin tuna (see documents SAC-11 INF-F, SAC-11-INF-J, SAC-11-06, and SAC-11-07) with emphasis on the impact on the management advice, taking care that this activity does not impact the research plan of the scientific staff as described in document SAC-12-01*"

To support with the implementation of that decision, the IATTC staff has initiated a project on improving the risk analysis for tropical tunas in the EPO (Project H.1.f). The overall goal of the project is to develop more objective, transparent, and automated metrics for weighting fishery stock assessment model ensembles. The project includes a series of workshops conducted jointly between the IATTC and the Center for the Advancement of Population Assessment Methodology (CAPAM). A first workshop was held from 31 January to 3 February 2022 on the topic of "Model diagnostics in integrated stock assessments". Its focus was on defining and automating appropriate diagnostics. A second workshop will be held from 28 November to 2 December 2022. This second workshop will focus specifically on the scoring for model weighting. Major topics include:

- Which models to consider and what measures (diagnostics) should be used to exclude models?
- What measures to use in weighting and how to determine the weight for each metric?
- How to combine weights.
- How to present and use results.
- Application of model weighting in the context of EPO tuna assessment and management.

FORMAT

This second workshop will be held by videoconference from 8 AM to 11 AM daily, San Diego (California) time.

The 5-day forum will include keynote and research presentations, and focused discussions. It will comprise several presentations by invited speakers, contributed presentations, and ample time for discussion.

Contributed presentations are welcome. Please submit your abstract to Mark Maunder (mmaunder@iattc.org) by the 1st of November.

PARTICIPATION AND ARRANGEMENTS

In view of the technical and informal nature of the workshop, it is open to all interested participants on an individual and personal basis and not formal representation of a CPC or another entity**.**

To facilitate this participation and make the necessary arrangements, a **registration form** will be posted on the meeting website to allow for participants to register individually.

The Workshop will utilize the Zoom platform. An invitation will be sent individually to each registered participant.

As indicated above, the Workshop will be held on **28 November to 2 December 2022**. Each session will have a duration of three hours and will start at **8 AM PST (UTC -8)** to finalize around **11 AM PST (UTC -8)**.

For the convenience of the participants, a document will be posted on the website with more precise indications on the ways the meeting will be conducted, taking into account the special requirements and limitations of videoconferencing, using as a model the similar documents that were used for previous IATTC meetings by videoconference.

Languages: English. There will be no simultaneous interpretation.