

## INTER-AMERICAN TROPICAL TUNA COMMISSION

### 1<sup>ST</sup> TECHNICAL WORKSHOP ON SWORDFISH IN THE SOUTHERN EPO

**Review current state of knowledge, identify available data sources, review stock assessment assumptions for swordfish in the southern EPO**

Videoconference (15-17 December 2020; 1300-1600h PST) using Zoom

#### Objectives

The workshop, and its preparatory work, will bring together scientists interested in contributing to this regional effort. The objectives are to: 1) promote a regional investigation of swordfish in the southern EPO; 2) review the current state of knowledge of the stock; 3) construct a conceptual model of the population and fishery; 4) identify and understand data sets available from different fisheries/regions that can be used in the assessment; and 5) plan the next steps for the stock assessment process.

#### Tentative agenda of videoconference

##### Day 1

1. Introduction to meeting
2. Mention of recorded presentations
3. Background on swordfish issues in the EPO
4. Previous IATTC Stock Synthesis model for swordfish: description and analysis
5. Stock structure / Conceptual model of dynamics
  - a. overview presentationDiscussion

##### Day 2

6. Biology overview presentation:
  - a. Growth
  - b. Natural mortality
  - c. Reproduction (maturity, fecundity, frequency)Biology discussion
7. Fisheries definitions
8. Review of data sources:
  - a. Catch by gear and area
  - b. Other data for model fit (*e.g.* tagging)
  - c. Composition (age, length, weight, sex composition, length-weight relationship, dressed weight-full weight relationship)
  - d. Catch-per-unit-effort (CPUE)Data sources discussion – focus on indices of abundance

##### Day 3

9. Modeling discussion
  - a. Overarching hypothesis
  - b. Other uncertainties
10. Review of recommendations
11. Workplan for model improvement