

**INTER-AMERICAN TROPICAL TUNA COMMISSION**  
**2<sup>nd</sup> WORKSHOP ON IMPROVING THE RISK ANALYSIS FOR THE**  
**TROPICAL TUNAS IN THE EPO: MODEL WEIGHTING FOR**  
**INTEGRATED STOCK ASSESSMENTS**

*(by videoconference)*  
**28 November 02 - December 2022**

**TENTATIVE AGENDA**

Nov 28-Dec 2 8am-11am (San Diego time)

## Monday

8:00 Welcome: IATTC

### **Introduction**

8:10 Introduction: Mark Maunder

8:30 Model weighting in the IATTC risk analysis approach: Mark Maunder

9:00 A review of model averaging and the way forward: Carsten Dormann

10:00 Break

10:15 Summary of the ICES 2022 Network Session on ensemble models: Ernesto Jardim

10:45 Discussion

## Tuesday

### **Which models to consider and what measures (diagnostics) should be used to exclude models**

8:00 Using diagnostics to fix and eliminate models when constructing an ensemble: Mark Maunder/Felipe Carvalho

8:30 Discussion

### **What measures to use in weighting and how to determine the weight for each metric**

9:00 What measures to use in weighting and how to determine the weight for each metric?: Philipp Neubauer

9:30 Using hindcasting to weight models: TBA

10:00 Break

10:15 Considerations when integrating multiple stock assessment models: Allan Hicks

10:45 Discussion

## Wednesday

### **How to combine weights**

8:00 Key decisions: How should ensembles be constructed and combined?: Nicholas Ducharme-Barth

9:00 Implementation of Monte-Carlo Bootstrap Ensembles to assess uncertainty and provide management advice: Matt Vincent

9:30 There's more to ensemble modelling than model weighting: Michael Spence

10:00 Break

10:15 Discussion

## Thursday

### **Applications**

8:00 Practical applications of diagnostic weighing in ensemble models: three case studies, Northern shrimp, Adriatic sole and Gulf of Bothnian vendace: Massimiliano Cardinale

### **Application of model weighting in the context of EPO tuna assessment and management**

9:00 A proposed approach of developing and weighting an ensemble for use with tropical tunas in the EPO

10:00 Break

10:15 Discussion

## Friday

8:00 Discussion (if needed)