

# 7<sup>th</sup> National Scientific Coordination Sub-Committee Workshop (2022)

August 15-17, 2022

Sitka, Alaska

## Case Study Themes

### **Session 1. How to incorporate ecosystem indicators into the stock assessment process?**

Keynote Speakers: Dr. Andre Punt and Dr. Sarah Gaichas

Possible Case Studies:

- PFMC – Use of Environmental Indicators in the Stock Assessment of Sablefish off the US West Coast
- SAFMC – How environmental or ecosystem shifts (including changes in conditions such as sea surface temperature, upwelling, trophic relationships, and primary productivity) might correlate with poor recruitment for several economically important species of demersal fishes off the United States southeast coast
- MAFMC – Atlantic Weakfish Stock Assessment: A case study of incorporating ecosystem indicators into the stock assessment with non-stationary spatial and temporal population dynamics
- GFMC – Red tides: A spatially explicit ecosystem model was recently developed to simulate impacts and estimate mortality rates of red tides on the West Florida Shelf and age- and year-specific red tide mortality on gag grouper from the ecosystem model were incorporated into a stock assessment model sensitivity run, resulting in improved fits to indices. For the first time, near-real time estimates of red tide mortality from the ecosystem model were factored into rebuilding projections and ultimately included in the final catch advice from the SSC
- NPFMC - Snow crab changing production

### **Session 2. Developing information to support management of interacting species in consideration of ecosystem-based fishery management (EBFM).**

Keynote Speakers: Dr. Eva Plaganyi

Possible Case Studies:

- Caribbean – Multivariate approaches to identify potential drivers, evaluate conceptual models and inform the EBFM process in the Caribbean
- NEFMC – Atlantic herring: Development of acceptable biological catch control rule that is intended to ensure sustainable harvest of the herring resource and account for herring's role as forage in the ecosystem

### **Session 3. How to assess and develop fishing level recommendations for species exhibiting distributional changes?**

Keynote Speakers: Dr. Alan Haynie

Possible Case Studies:

- SAFMC – Blueline Tilefish case study – science and management challenges and recommendations associated with stock expansion.
- NEFMC – Recent research on shifting scallop distributions and the rotational management program.
- MAFMC – Title: Fish on the Move: Management Applications and Approaches to Address Stock Distribution Shift Challenges