Tentative Agenda: CAPAM and FAO workshop on fisheries stock assessment good practices: 24- 28 October, 2022, FAO, Rome

Organizing committee

Mark Maunder (Chair, IATTC), Andre Punt (UW), Rick Methot (NMFS), Rishi Sharma (FAO).

Monday Oct 24

9:00 Welcome (FAO)

9:10 Logistics (Rishi Sharma)

9:15: Welcome Remark (Manuel Barange)

9:20 Introduction (Mark Maunder)

9:30 Rick Methot (virtual): Why good practices are needed

10:00 Coffee

10:15 Rishi Sharma: FAO global status of worlds fisheries and where the good practices guide fits in

10:45 Arni Magnusson: Open and reproducible fisheries science: Standardized workflows at ICES and FAO

11:00 Keynote-Andre Punt: Those who fail to learn from history are condemned to repeat it: A perspective on current stock assessment good practices and the consequences of not following them?

12:00 Lunch

1:00 David L Miller: Best practices and advances from cetacean density modelling

Stock and fishery structure

1:15 Keynote-Steve Cadrin: Best Practices for Defining Spatial Boundaries and Spatial Structure for Stock Assessment

1:45 Commenter-Ernesto Jardin: TBA

2:00 Carolina Minte-Vera: The use of conceptual models to structure stock assessments: “model what to model”

2:15 Vidette McGregor (Virtual): New Zealand hoki stock assessment model: stock and fisheries structure

2:30 Discussion

3:00 Coffee

CPUE standardization

3:15 Keynote-Simon Hoyle (virtual): TBA

3:45 Commenter-Shannon Cass-Calay: TBA

4:00 Xinhua Zhu: Incorporating hydroclimate, environment, and fishing behaviour into standardization of fishery-dependent CPUE data of anadromous Dolly Varden in the Canadian Arctic

4:15 Haikun Xu (Virtual): Evaluating the impacts of reduced fishing effort on the standardization of fishery-dependent catch-per-unit-effort data

4:30 Discussion

5:00 End

Evening session

6:30 PM: Aperitivo with snacks at Hotel Abitarte

Tuesday Oct 25

Growth

9:00 Keynote-Kevin Piner/Hui-Hua Lee (Recorded): Good Practices for estimating and using length-at-age in integrated stock assessments

9:30 Commenter-Kai Lorenzen: TBA

9:45 Giancarlo M. Correa (Virtual): Accounting for temporal variability in somatic growth improves state-space assessment model for walleye pollock in the Gulf of Alaska

10:00 Coffee

10:15 Discussion

Selectivity

11:00 Keynote-Rick Methot (virtual): TBA

11:30 Commenter-Ana Parma: TBA

11:45 Cole Carrano: Modeling selectivity of a long-term fishery-independent survey with technological changes

12:00 Lunch

1:00 Michael Wilberg: Good practices for considering sex-structured selectivity and fishing mortality in assessments: a simulation study

1:15 Discussion

Natural mortality

1:45 Keynote-Owen Hamel: TBA

2:15 Commenter-John Hoenig: TBA

2:30 Max Grezlik: Improving Natural Mortality Estimates with Multispecies Models

2:45 Alexei Sharov: Completing the curve. A U turn in natural mortality concept

3:00 Coffee

3:15 Discussion

4:00 End

Wednesday Oct 26

Recruitment

9:00 Keynote-Liz Brooks. Pragmatic approaches to modeling recruitment in fisheries stock assessment

9:30 Commenter-Carl Walters (virtual). Recruitment best assessment practices.

9:45 Yang Wang: Impacts of phytoplankton availability on bigeye tuna (Thunnus obesus) recruitment in the Indian Ocean

10:00 Coffee

10:15 Discussion

Data weighting

11:00 Keynote-Jim Thorson: Data weighting: an iterative process linking field-samples and population models to evaluate mis-specification

11:30 Commenter Jim Ianelli (note 30 min): TBA

12:00 Lunch

1:00 Discussion

Process variation (Random effects/state-space models)

1:45 Keynote-Anders Nielsen: TBA

2:15 Commenter-Tim Miller (virtual): TBA

2:30 Momoko Ichinokawa: Development of a uniform protocol for the application of state-space production models to Japanese domestic fishery stocks

2:45 Noel Cadigan (Virtual): A review of how time-varying M is accounted for in Canadian east coast groundfish assessments

3:00 Coffee

3:15 Discussion

4:00 Ian Taylor (Virtual): Implementing good practices in Stock Synthesis

5:00 End

Thursday Oct 27

Spatial stock assessment models

9:00 Keynote-Dan Goethel/ Aaron Berger (note 1 hr): Spatial Awareness: Exploring the Continuum of Approaches for Addressing Spatial Population Structure and Connectivity Across the Assessment-Management Interface

10:00 Coffee

10:15 Commenter- Collin Millar: TBA

10:30 Samara Nehemiah: Considerations for developing a spatially explicit population model to estimate Striped Bass abundance in the Chesapeake Bay

10:45 Richard McGarvey (Virtual): Avoiding bias in movement rate estimation due to partial reporting and other tag loss processes: conditioning on recapture

11:00 Discussion

Diagnostics

11:30 Keynote-Felipe Carvalho/Henning Winker: TBA

12:00 Lunch: Roundtable discussion about next generation assessments

1:00 Commenter-Laurie Kell: TBA

1:15 Andrea M. Havron: Guidelines to validating generalized linear mixed models in Template Model Builder using quantile residuals

1:30 Andrea Perreault (Virtual): Profile likelihood diagnostics for state-space stock assessment models

1:45 Discussion

Data limited methods

2:15 Keynote-Jason Cope: TBA

2:45 Commenter- Shijie Zhou (Virtual): TBA

3:00 Coffee

3:15 Rishi Sharma: Transferring Capacity to Data and capacity Limited Areas of the World

3:30 Round table (Ana Parma, Andre Punt, Jason Cope, Shijie Zhou, Maurice Ssebisubi and Pedro Barros/Nico Guitterez)

5:00 End

Evening session

6:30 PM Aperitivo with snacks at Hotel Abitarte

8:30 The future of CAPAM (at a restaurant)

Friday Oct 28

Integrated Population Models

9:00 Keynote- Michael Schaub: Lessons to be learned by comparing fisheries stock assessment methods (SAMs) with integrated population models (IPMs)

9:30 Discussion

10:00 Coffee

Close-Kin Mark-Recapture

10: 15 Keynote- Mark Bravington: CKMR: from good practices to better

10:45 Discussion

General

11:15 C. Castillo Jordán: A timeline for Skipjack tuna assessments in the WCPO - past, present, and future

11:30 Christine Stawitz/Chantel Wetzel: A dictionary for stock assessment to improve clarity and interoperability of different modeling software

11:45 Lunch

Workshop summary

1:00 Mark Maunder

Final discussions

1:30 Discussion

3:00 Coffee

3:15 Discussion

4:00 End