

REPORT OF THE WORKSHOP ON MANAGEMENT STRATEGY EVALUATION

Working Party on Methods, Indian Ocean Tuna Commission

ISPRA, ITALY. 16-19 APRIL 2013

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EXECUTIVE SUMMARY

This workshop took place in the premises of the European Community Joint Research Centre (EC-JRC) in Ispra, Italy, between the 16 and 19 of April 2013. A number of scientists working on the development of Management Strategy Evaluation (MSE) for IOTC tuna stocks worked together in order to progress along the lines agreed by the 4th session of the Working Party on Methods, and endorsed by the 15th Session of the Scientific Committee (IOTC 2012a).

Progress was made at developing a base Operating Model for Indian Ocean Albacore

OBJECTIVES

The general objective of this workshop was to progress on the development of Management Strategy Evaluation (MSE) simulations for IOTC tuna stocks. More specifically, the participants agreed to the following set of objectives:

1. To review factors to be included in the initial set of Operating Models (OM) for Indian Ocean albacore.
2. To assemble a first round of Operating Models for Indian Ocean albacore.
3. To select a number of scenarios to be considered as sensitivity runs for those Operating Models.
4. To discuss an initial set of Management Plans, including possible Harvest Control Rules and interim management objectives.
5. To discuss the design of Operating Models for Indian Ocean tropical tuna stocks (skipjack, yellowfin and bigeye tuna).
6. To examine and experiment with the FLR development platform
7. To propose a design for a demonstration platform on MSE to be presented to the IOTC Scientific Committee.
8. Plan future work and subsequent workshops.

9. Provide the chair of the Scientific Committee with an update on MSE development to be included in the scientific presentation to the IOTC plenary.

Albacore OPERATING MODELS

The group agreed to the use of one of the stock assessment models presented at the 2012 session of the Working Party on Temperate Tuna (IOTC 2012b) as a basis for the first set of operating models.

Review of Indian Ocean albacore stock assessment

Current MSE work by ICCAT on Atlantic albacore

Uncertainty considered in the albacore Operating Model

Final grid of albacore SS3 models

Albacore MANAGEMENT PROCEDURES

- Objectives
- SA / Model free
- HCRs

DESIGN OF MSE DEMONSTRATION

WORKPLAN

ANALYSIS

- ALB set of OMs: write and document code (IM)
- Code ALB MPs (IM, AL, RH, FS)
- Start work on TROP OMs (AL, NB, IM, RH, RS, MS)

DOCUMENTS

- Presentation to COM17 (IM, TK)
- WPTT document on progress in TROP Oms (IM, TK)
- WPTmT document on progress in ALB OMs and MPs (IM, TK)
- Presentation & demo for SC15 (all)

CODING

- Extend FLR methods to seasonal dynamics (FS, IM)
- Make a4a work on biomass CPUE (CM, IM)
- Build MSE demo platform (IM, FS, CO)

MEETING

- 28 OCT 2013, AZTI Tecnalia, Pasaia, Spain

PARTICIPANTS

- Richard HILLARY, CSIRO, Australia.
- Toshihide KITAKADO, TUMST, Japan.
- Adam LANGLEY, IOTC Secretariat.
- Gorka MERINO, AZTI, European Union.
- Colin MILLAR, EC JRC, European Union.
- Iago MOSQUEIRA, EC JRC, European Union.
- Finlay SCOTT, EC JRC, European Union.
- Rishi SHARMA, IOTC Secretariat.
- Maria SOTO, IEO, European Union.

APPENDIX 1 - ALB OMs

APPENDIX 2 - Grid sampling

OUTCOMES

- Draft ALB OM + Robustness tests
- Design ALB MP + HCRs
- Design TROP OMs
- PPT COM 13
- Draft ALB demo
- Draft ALB BRP analysis
- Workplan
- Report

BIBLIOGRAPHY

IOTC. 2012a. “Report of the Fifteenth Session of the IOTC Scientific Committee.” <http://iotc.org/files/proceedings/2012/sc/IOTC-2012-SC15-R%5BE%5D.pdf>.

———. 2012b. “Report of the Fourth Session of the IOTC Working Party on Temperate Tunas.” <http://iotc.org/files/proceedings/2012/sc/IOTC-2012-SC15-R%5BE%5D.pdf>.