

Management Strategies Evaluation with FLR and a4a

Course, 25-29 November 2019

JRC, Ispra, Italy

June 20, 2019

1 Introduction

Management Strategies Evaluation (MSE) are an important simulation technique to support decision making in face of uncertainty which is widely used in fisheries science.

FLR is a framework developed in the statistical language R to support the development and implementation of quantitative analysis of fisheries systems.

a4a is a JRC initiative aiming at making modelling of fisheries systems and implementation of MSEs accessible to a wider scientific community. The development and implementation of a4a methods is done in FLR and R.

The objective of the course proposed here is to discuss MSE concepts and use a4a's platform to implement and test MSE algorithms, such as full feedback loops and data-limited situations.

2 Course

The course is organized by the JRC and co-sponsored by the H2020 project Pandora.

The course will have a duration of 5 full days, and will take place in Ispra, Italy at the JRC campus.

The course is free of charge. Participants will have to cover their own expenses for travel, accommodation and subsistence.

Participants will have to be proficient in R and have a sufficient knowledge of population dynamics, fisheries modelling and statistics. A maximum number of 15 participants will be accepted on a first-come first-served basis.

2.1 Programme outline

Day 01 MSE concepts and introduction to FLR and the a4a MSE platform.

Day 02 Operating model conditioning.

Day 03 Observation error model and estimation of stock status or trends.

Day 04 Harvest control rules, implementation systems and implementation error.

Day 05 Summarising results and tools for dialogue.

2.2 Applications

To apply for attending the course please email Iago Mosqueira (iago.mosqueira@ec.europa.eu) or Ernesto Jardim (ernesto.jardim@ec.europa.eu).