



ICES Training programme

The International Council for the Exploration of the Sea (ICES) offers courses led by high-profile scientists and instructors. Visit the Training web page: www.ices.dk/iceswork/training/training.asp

Stock assessment (Advanced)

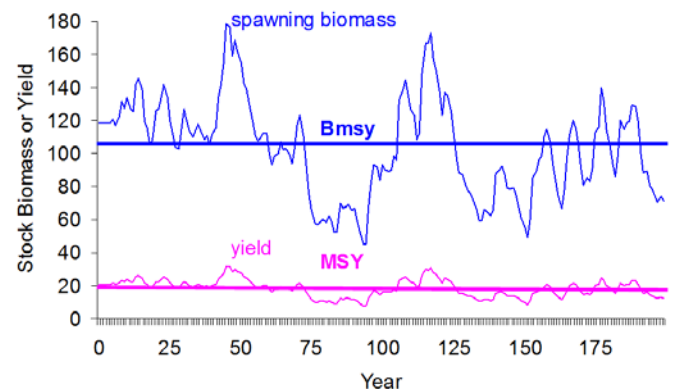
Context and level

This is an advanced course in fisheries stock assessment modelling where we show the generic properties of various methods used to generate historical stock abundance and mortality rate estimates. The course includes uncertainty estimation of relevant parameters. It is aimed at scientists who have some foundation in the fundamentals of stock assessments.

We examine various assumptions as well as strength and weaknesses of different methods. The course will take you through the different steps that are part of any stock assessment. First: exploratory data analysis and the potential information content in the available data; Second: we discuss setting up structured population dynamic models. As a third step, we link these population dynamics models to existing data by calculating model predictions for catch, survey, and other relevant types of data. Finally, we discuss and demonstrate several tools that can help in fitting the models to data, such as different optimizing/sampling tools, and importantly, we discuss how to estimate and present uncertainties in the stock assessment models.



Dynamic MSY



Besides the building of assessment models and estimating uncertainty using various tools we also discuss closely related analytical techniques to improve scientific advice for managers. We show some exploratory analyses to reveal existing patterns in the data at hand, and how fish stock dynamics can be modelled under different assumptions.

Objective

The general objective of the course is to train stock-assessment scientists and advisors in population dynamics and advanced stock assessment. The course intends to put theory into practice as much as possible by working on examples from different angles.

Course dates

15 – 19 October 2012

Programme

The five-day course is organized as a series of morning sessions that focus on theoretical concepts and afternoon work sessions. These work sessions will be completed in different software environments such as R and AD model builder (see flr-project.org and admb-project.org).

Venue

International Council for the Exploration of the Sea
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info@ices.dk
You can find more information about:
ICES HQ [here](#)
Hotels close to ICES [here](#)
The hostel next to ICES [here](#)

Fee

The fee for the course is €500. This covers only tuition fee.

Organization

The course is organized by the ICES Secretariat as part of the ICES Training programme.

The course and course materials are provided by Jan Jaap Poos, Wageningen IMARES and Richard Hillary, CSIRO Marine and Atmospheric Research.

The course includes background information, applied examples, and hand-on exercises.

Participants are required to **bring their own laptops** (preferably with MS windows or a GNU/Linux distribution) to connect to ICES network.

Admission and registration

The course is designed for a maximum of 25 participants. The working language is English.

Please use the on-line registration:

www.ices.dk/iceswork/training/registration/

The deadline for the submission of applications is 17 August 2012.

Instructors

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