





Optimizing sustainable fishing on rebuilt fish stocks

Fish stocks in the North Atlantic are rebuilding and they compete for food and predate on each other. It is time to revisit what the optimal fishing pressure is. The technical basis are the so-called F_{MSY} reference points. Ways of including fish interactions (density dependence) in the current single species approach to management are considered. The so-called Surplus Production Models (SPM) will be a focus.

A scientific mini-symposium organized by the MSE-project group

23 November 2022, Axelborg, Axeltorv 3, Copenhagen V, Denmark

9:00 – Open for registration

1st half for stakeholders, managers and scientists

Chair: Dorothy Dankel, Chair of the Nordic Marine Think Tank.

- 9:30 Opening of the mini-symposium. Chair.
- 9:35 Setting the Scene Management perspective. (the EU Commission (Fabrizio Donatella), TBC)
- 9:50 A stakeholder perspective. (Esben Sverdrup)
- 10:05 The MSE project. (Henrik Sparholt)
- 10:25 Density dependence in fish populations. (NN)
- 10:40 Climate changes in the Northeast Atlantic 2022-2032 (Katherine Richardson)
- 10:55 Coffee
- 11:15 ICES perspective on the use of surplus production models in ICES advice (an ICES ACOM representative)
- 11:30 Panel Discussions of issue covered. Facilitator Chair.
- 12:30 13:30 Lunch (provided by the MSE-project)

2nd half for scientists mainly

Chair: Nis Sand Jacobsen, Scientist at DTU AQUA,

- 13:30 FMSY estimates for constant or density dependent growth comparison of age-structured and production models (Jan Horbowy)
- 13:55 Best SPM Case North Sea plaice (Henrik Sparholt)
- 14:20 Best SPM Case Northeast Atlantic blue whiting (Axelle Cordier)
- 14:45 Coffee
- 15:15 Climate changes and how to integrate it in MSEs (Nis Sand Jacobsen).
- 15:30 Process errors and observation error how best to estimate these? (Henrik Sparholt or Tobias Mildenberger)
- 15:45 Process errors and observation error can SPiCT be used? (Casper Berg DTU AQUA)
- 16:00 Process errors and observation error Hindcast approach a way forward for testing alternative MSEs? (Laurie Kell)
- 16:15 Panel discussion of issues covered. Facilitator: Chair Nis Sand Jacobsen.
- 17:00 Closing of the mini-symposium Dorothy Dankel.