

Workshop on 'Spatial Bio-Economic Modeling with Complex Regulatory Goals'

University of Southern Denmark, Esbjerg, Denmark, 25-26th of May 2016,
The course is arranged together with University of Kiel

Lectures: Prof. Dr. Martin Quaas, University of Kiel, Professor Brooks Kaiser and Professor Niels Vestergaard, University of Southern Denmark

Background:

The regulation and management of biological resources for optimum social benefit is complicated by many potential interacting forces. These forces guide the material for this course and include:

- ecological and economic interactions of species within or across trophic levels
- spatial differences in expected returns due to differences in costs of access (including variations in technological restrictions)
- spatial differences in external damages from harvest activities
- fragmented or incomplete property rights to the harvest and/or additional ecosystem benefits at risk from harvesting. Fragmented property rights include considerations where international agreements may be necessary.

While some bio-economic problems can be modeled with analytical solutions, in many cases, numerical solutions and related simulations are required. This course aims to provide students with tools to generate analytical and numerical solutions to spatial bio-economic resource questions.

These tools include:

- useful approaches to formulating the underlying dynamic optimization problem
- Ways to determine estimates for key model parameters, particularly regarding future ecological and economic conditions

The workshop uses applications from fisheries and invasive species.

Content:

We intend to host up to 15-20 participants with different background in marine biology, ecology and resource and fisheries economics and management. The workshop will be mix of lecture, exercises, simulations and hands-on as well as presentation by the participants. The workshop will last two full days beginning in the morning 25 May and end late afternoon 26 May.

Participation

There is no workshop fee. Acceptance is limited and will occur on a rolling basis as we want a small and intense workshop. We encourage all the participants to present a paper/work/PhD or Postdoc project. For consideration as a presenter, please submit a short abstract and title. For consideration as an attendee, please send a short (2 page max) CV. Deadline for enrolment is May 8, 2016. Please send your application by e-mail to fame@sdu.dk.

News and questions

Updated information about the workshop can be found at the FAME website www.sdu.dk/fame under Workshops and conferences. Questions? Do not hesitate to contact Irene Nygaard at fame@sdu.dk

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