

FILAMO Workshop 2017 on

Obstacles in the communication between field-, lab- and modelling work

18th and 19th of August 2017 at the Radisson Blu Royal
Hotel in Bergen, Norway



Background

Numerical modeling and simulations of oceans and ecosystems have developed into an important research field. The reliability of modelling results and their predictive capacity relies heavily on input parameters which often are informed by field work and laboratory experiments. In turn, models can pose interesting scientific questions and can serve as precursors for field work and laboratory studies. As such, models are a valuable tools to develop precise and testable hypotheses, which can be confronted with observations from the field and lab.

However, communication among field studies, laboratory experiments and numerical modelling is often poor!

A better integration of field studies and laboratory experiments with numerical modelling can improve the flow and access of information (in both directions) and help to reduce the misinterpretation and misuse of information, which will be of growing importance for the next generation of researchers within the multi-disciplinary field of marine sciences.

Working towards the goal the international workshop brings together an international group of researchers working in the field, laboratory experiments and numerical modelling to identify and discuss common obstacles in communication between the three methodological fields.



Invited speakers

- Prof. Tom Andersen** - University of Oslo, Norway
- Prof. Kevin Flynn** - Swansea University, UK
- Dr. Jan Heuschele** - University of Oslo, Norway
- Prof. Andrew Irwin** - Mount Allison University, Canada
- Prof. Thomas Kiørboe** - Centre for Ocean Life, DTU Aqua, Denmark
- Prof. Susanne Menden-Deuer** - University of Rhode Island, USA
- Dr. Aditee Mitra** - Swansea University, UK
- Dr. Ana Queiros** - Plymouth Marine Laboratory, UK

Workshop organizers

- Dr. Chris Lindemann** - University of Bergen, Norway
- Prof. Øyvind Fiksen** - University of Bergen, Norway



Program

18th August 2017

- 09:00 - 09:15 Welcome
- 09:15 - 09:45 Impressions
- 09:45 - 10:30 **Jan Heuschele (University of Oslo, Norway)** - We need to talk!
Improving the communication between modelers and experimentalists - insights from a questionnaire, bibliometric analyses and a background check of the "top" ecologists.
- 10:30 - 11:00 Disussion
- 11:00 - 11:30 **Ana Queiros (Plymouth Marine Laboratory, UK)** - Placing ecology in macroscale models without getting lost in translation: an ecologist's point of view
- 11:30 - 12:00 Disussion
- 12:00 - 13:00 *Lunch*
- 13:00 - 13:15 Impressions
- 13:15 - 14:00 **Kevin Flynn & Aditee Mitra (Swansea University, UK)** - Castles built on Shifting Sands – is the link between reality and plankton models even more precarious now, and what are we to do about it?
- 14:00 - 10:10 Disussion
- 14:10 - 14:55 **Andrew Irwin (Mount Allison University, Canada)** - Statistical models of phytoplankton traits and the challenges of interpreting field data
- 14:55 - 15:25 Disussion
- 15:25 - 16:00 *Coffee*
- 16:00 - 16:15 Impressions
- 16:15 - 17:00 **Tom Andersen (University of Oslo, Norway)** - How can we cultivate computational literacy in undergraduate biology education? - experiences from developing new bachelor program in biosciences
- 17:00 - 17:30 Disussion
- 17:30 - 17:45 Impressions
- 19:00 *Workshop dinner*



Program

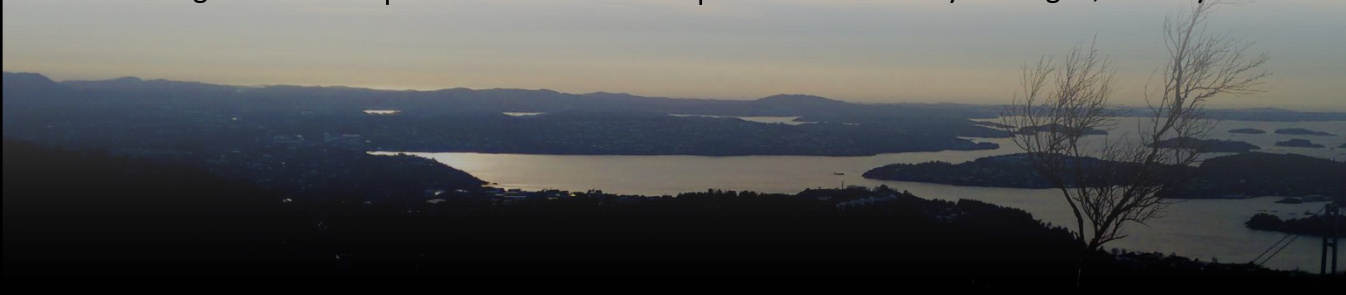
19th August 2017

- 09:00 - 09:30 **Thomas Kiørboe (Centre for Ocean Life, DTU Aqua, Denmark)** -
Bridging experiments, theory, and models: Lessons from physics.
- 09:30 - 09:45 Disussion
- 09:45 - 10:30 **Susanne Menden-Deuer (University of Rhode Island, USA)** - Lab, life
and the pursuit of modeling: an optimists view.
- 10:30 - 11:00 Disussion
- 11:00 - 11:15 *Coffee*
- 11:15 - 12:00 Impressions & Sum up
- 12:00 *Lunch*



List of Participants

Participant's Name		Position	Affiliation
Dag	Aksnes	Professor	University of Bergen, Norway
Tom	Andersen	Professor	University of Oslo, Norway
Ffion	Atkins	PhD	University of Cape Town, South Africa
Dominik	Bahburg	MSc student	Carl von Ossietzky University Oldenburg, Germany
Andrea	Campos-Candela	PhD candidate	Mediterranean Institute for Advanced Studies, Spain
Hans	Dam	Professor	University of Connecticut, USA
Nicole	Dames	PhD candidate	University of Cape Town, South Africa
Anett	Endrédi	Associate Research Fellow	MTA Centre for Ecological Research, Hungary
Øyvind	Fiksen	Professor	University of Bergen, Norway
Zoe	Finkel	Professor	Mount Allison University, Canada
Kevin	Flynn	Professor (Research)	Swansea University, UK
Carmen	García-Comas	Post. Doc.	JAMSTEC, Yokohama, Japan
Zimkhita	Gebe	PhD Student	University of Cape Town, South Africa
Maria	Grigoratou	Phd student	University of Bristol, UK
Jan	Heuschele	PostDoc	University of Oslo, Norway
Andrew	Irwin	Professor	Mount Allison University, Canada
Christian	Jørgensen	Associate Professor	University of Bergen, Norway
Lee	Karp-Boss	Associate Professor	University of Maine, USA
Thomas	Kjørboe	Professor	Centre for Ocen Life, DTU, Danmark
Chris	Lindemann	PostDoc	University of Bergen, Norway
Alexandra	Marki	PostDoc	Helmholtz Centre for Ocean Research, Germany
Niall	McGinty	PostDoc	Mount Allison University, Canada
Susanne	Menden-Deuer	Professor	University of Rhode Island, USA
Aditee	Mitra	Lecturer (Research)	Swansea University, UK
Anders F.	Opdal	PostDoc	University of Bergen, Norway
Ana	Queiros	Senior Ecologist	Plymouth Marine Laboratory, UK
S. Lan	Smith	Senior scientist	JAMSTEC, Yokohama, Japan
Bei	Su	PostDoc	Helmholtz Centre for Ocean Research, Germany
Josefin	Titelman	Professor	University of Oslo, Norway
Selina	Våge	Post-doc	University of Bergen, Norway



Accommodation & Venue

The workshop takes place at the Radisson Blu Royal Hotel, Bergen which is nestled next to Bryggen, the city's old wharf area—one of Norway's most popular attractions and a UNESCO World Heritage site.

Breakfast, Lunch and the workshop dinner will be served at the hotel.

Radisson Blu Royal Hotel

Bryggen

N-5835 Bergen

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www.radissonblu.com/en/royalhotel-bergen

Arrival information

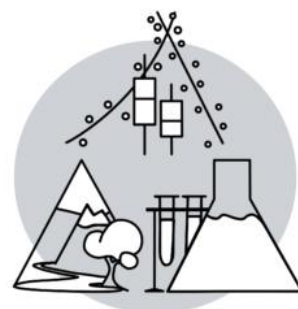
From Bergen Flesland Airport (BGO) the best way to reach the city center and Bryggen is by the airport bus, flybussen (www.flybussen.no), which takes around 35 minutes. The hotel is the last stop on the journey.



This Workshop is financed by

FILAMO - Connecting Field work and Laboratory experiments to numerical Modelling in a changing marine environment

The primary objective of FILAMO is to train the next generation of multidisciplinary marine scientists, to provide marine students and young scientists with meeting places and opportunities to integrate and communicate across field- and laboratory- and numerical modelling approaches. The project combines research, research training and higher education by funding student exchange, researcher mobility, and organizing summer schools and workshops across these methodological approaches.



FILAMO

filamo.b.uib.no

FILAMO is based at the University of Bergen and is a collaboration between University of Bergen, University of Cape Town and University of Oslo funded through the INTPART program by the Research Council of Norway & Norwegian Centre for International Cooperation in Education.

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Scientific Coordinator: Chris Lindemann (chris.lindemann@uib.no)



The Research Council
of Norway



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