



MARINE HABITAT CONNECTIVITY

A numerical approach to study biological connectivity between marine habitats

In this one-day course, you will receive a hands-on introduction to using ABM Lab for investigating and quantifying marine habitat connectivity. After this course, you will be able to use numerical agent-based modelling practices in your own research or include it in a university curriculum, or in lectures and courses.

ABM Lab allows you to create biologically realistic connectivity models, such as of coral reefs and mangrove forests, through dynamic coupling. For instance, the dynamic coupling between hydrodynamic and agent-based models of larvae allows for the inclusion of important processes such as mortality, vertical migration behaviour and the effect of dynamic environmental stimuli relative to the organism's life-stages.

We shall contact you before the course to find out how we can tailor it as much as possible to your needs. If feasible, you will receive a copy of a hydrodynamic model set-up, relevant to your university or location, which will be useful in university lectures and potential Masters or PhD programmes.

COURSE TOPICS

- Fundamentals of agent-based modelling and its use in connectivity modelling
- Introduction to a connectivity case study
- Guidelines for connectivity model development
- How to build your own basic connectivity model in ABM Lab (hands-on)

TARGET GROUP AND PREREQUISITES

Professionals from the environmental consultancy industry, Masters and PhD students, lecturers and professors working with marine and freshwater ecology in universities or research institutions.

You should have a background in marine ecology and preferably some numerical modelling experience. It is recommended that you have participated in the MIKE 21/3 FM and ECO Lab Biogeochemical Training course prior to enrolling for this course, but not strictly required.

DATE AND TIME

Tuesday 24 October 2017.
The course starts at 09:00 and finishes at 16:30.

LOCATION AND VENUE

DHI, Agern Allé 5, DK-2970 Hørsholm, Denmark.

FEES AND DISCOUNTS

Standard price: € 530

Discounts:

- Free of charge for participants from universities
- 10% with valid Service Maintenance Agreement on MIKE Powered by DHI product
- 33% for 3rd and subsequent participants from same company

All prices are exclusive of VAT and taxes.

THIS IS INCLUDED

- Training material
- Access to PC with all software required
- Lunch and refreshments
- Training Certificate

LANGUAGE

Lectures and training material are in English.

REGISTRATION AND CONTACT

Deadline for registration is Tuesday 03 October 2017 (ie 3 weeks before course start). A minimum of trainees is required for the course to proceed. DHI reserves the right to reschedule the training course up to 3 weeks prior to the course date scheduled.

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RELATED COURSES

- MIKE 21 Flow Model FM - 2D hydrodynamic modelling using flexible mesh
- MIKE 3 Flow Model FM - 3D hydrodynamic modelling using flexible mesh
- MIKE 21/3 ECO Lab - 2D and 3D water quality and ecological modelling
- ENVIRONMENTAL MANAGEMENT - Modelling as a tool in water and environmental management
- ENVIRONMENTAL IMPACT ASSESSMENTS - EIAs and support tools
- OIL SPILL ANALYSIS: MODELLING APPROACH - How to model the fate and transport of oil in water environments



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INSTRUCTOR

MICHAEL POTTHOFF

Dr Michael Potthoff works as a Senior Ecological Expert at DHI Denmark. He is involved in consulting activities as well as being a key software developer within the ecological field. Michael has extensive experience in end user support and training using ECO Lab. Prior to his employment with DHI, Dr Potthoff worked as a research scientist for the Alfred-Wegener Institute for Polar and Marine Science in Bremerhaven, Germany.



MSc, Biology, University of Münster, Germany;
PhD, Biology, Carl v. Ossietzky University, Oldenburg, Germany

THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

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