



MIKE FLOOD

Integrated 1D and 2D river flood modelling

This two-day, hands-on course aims to teach you river flood modelling by integrating the 1D river model (MIKE HYDRO River) and 2D overland flow model (MIKE 21). The emphasis is on establishing a 2D overland flow model followed by coupling the 1D and 2D model components to simulate the fully integrated flow dynamics between main rivers and surrounding flood plain areas.

River and coastal flooding often occurs as results of river overflow, high rainfall intensity in the catchment area, dam/dike breach, ocean storm surge or as a combination of these phenomena. The risks of flooding are amplified by the expected effects of climate change.

MIKE FLOOD is a comprehensive modelling package covering all the major aspects of flood modelling and a tool for understanding river and coastal flooding, analysing scenarios and testing mitigation measures. MIKE FLOOD integrates flood plains, streets, rivers, coastal areas and sewer/storm water systems into one package.

COURSE TOPICS

- Introduction to 2D overland flow modelling with MIKE 21
- Building bathymetries
- Preparing MIKE HYDRO River models for coupling with MIKE 21
- MIKE FLOOD graphical editor
- Coupling of 1D and 2D models
- 1D-2D linkage options
- Stability issues
- Tips and troubleshooting with model coupling
- Results viewing and presentation
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Professionals involved in flood management, flood risk assessment or other flood related studies. Participants must be acquainted with the basic functionalities of MIKE HYDRO River prior to the course either through experience or through participation in the MIKE HYDRO River course 'Introduction to river and channel modelling'.

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 - face-2-face as well as tailored.

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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