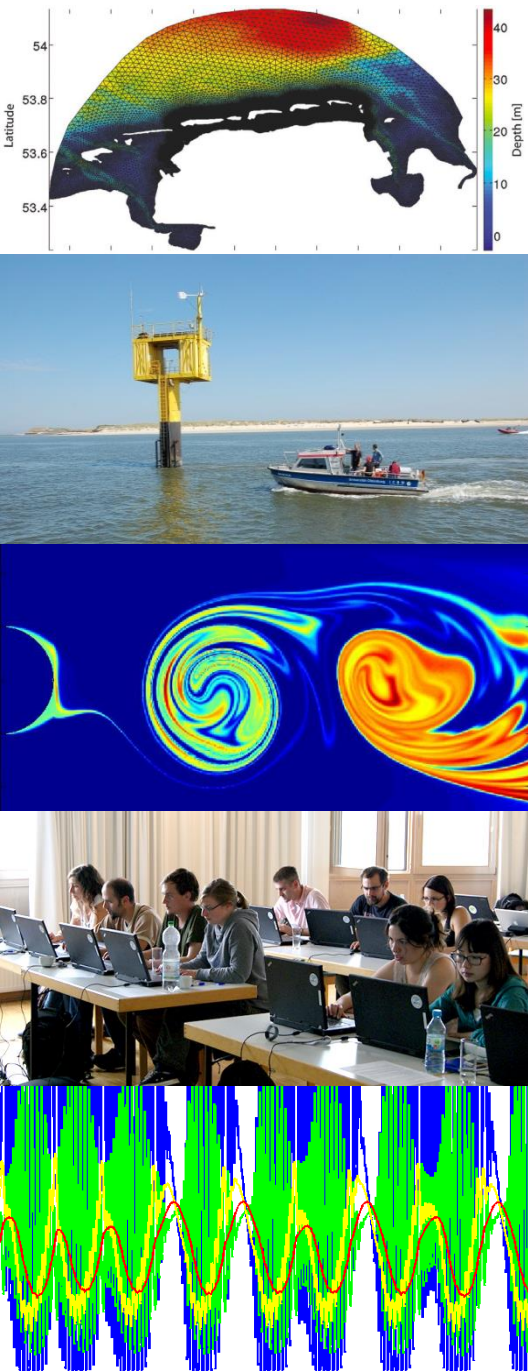




# ICBM Summer School on Coastal Systems 2017

## Introduction to Data Analysis and Ecosystem Modeling

July 30 – Aug. 12, 2017 in Wilhelmshaven and Oldenburg (Germany)



The Institute for Chemistry and Biology of the Marine Environment (ICBM), University of Oldenburg (Germany), will organize a summer school dealing with diverse modeling approaches to marine processes and systems.

The central idea of the summer school is to follow the analysis chain ranging from data sampling over data analysis and conceptual process descriptions and numerical schemes up to the level of comprehensive ecosystem models. The aim is to acquaint participants with diverse up-to-date modeling techniques at an introductory level.

Since data acquisition will be an integral part of the summer school a focus will be on marine conditions met in the southern North Sea and Wadden Sea (one of the largest tidal systems world-wide and UNESCO World Heritage since 2009).

### Main scientific topics are:

- Introduction to the coastal area of the southern North Sea and Wadden Sea
- Excursions
- Data acquisition and processing
- Introduction to R and Matlab
- Multivariate data analysis
- Time series analysis
- Hydrodynamic modeling
- Networks: structure and dynamics
- Dynamics of populations and ecological communities
- Biodiversity and ecosystem modeling

### Who should apply?

The summer school aims at young scientists, i.e. advanced (master) students and early stage PhD students, with a background in marine or environmental natural sciences of all disciplines.

Please visit our web site for further information:

<http://icbm.de/summerschool/>

Send your application until **March 31, 2017** by e-mail to [icbm.summerschool@uni-oldenburg.de](mailto:icbm.summerschool@uni-oldenburg.de) (as pdf file, including a CV and a motivation letter).

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