

Application

The summer school is open to young scientists with a background in marine sciences. Priority will be given to PhD students in the second or third year of their work, but also applications by other PhD students, young Post-Docs or Master students are welcome.

The deadline for application is May 27, 2011. Please, send your application to

icbm.summerschool@uni-oldenburg.de

including a CV (max. 1 page) and a motivation letter (max. 1 page) describing your scientific background and your personal expectations from attending the summer school. The successful applicants will be contacted in June.

On behalf of the organization committee

Dr. Bert Albers

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2. ICBM Summer School on „Coastal Systems“

August 22 - September 02, 2011

Institute for Chemistry and Biology
of the Marine Environment (ICBM),
University of Oldenburg
Carl-von-Ossietzky Str. 9-11
D- 26111 Oldenburg

Location of the Summerschool:

ICBM-Terramare
Schleusenstraße 1
D-26382 Wilhelmshaven



Internet:

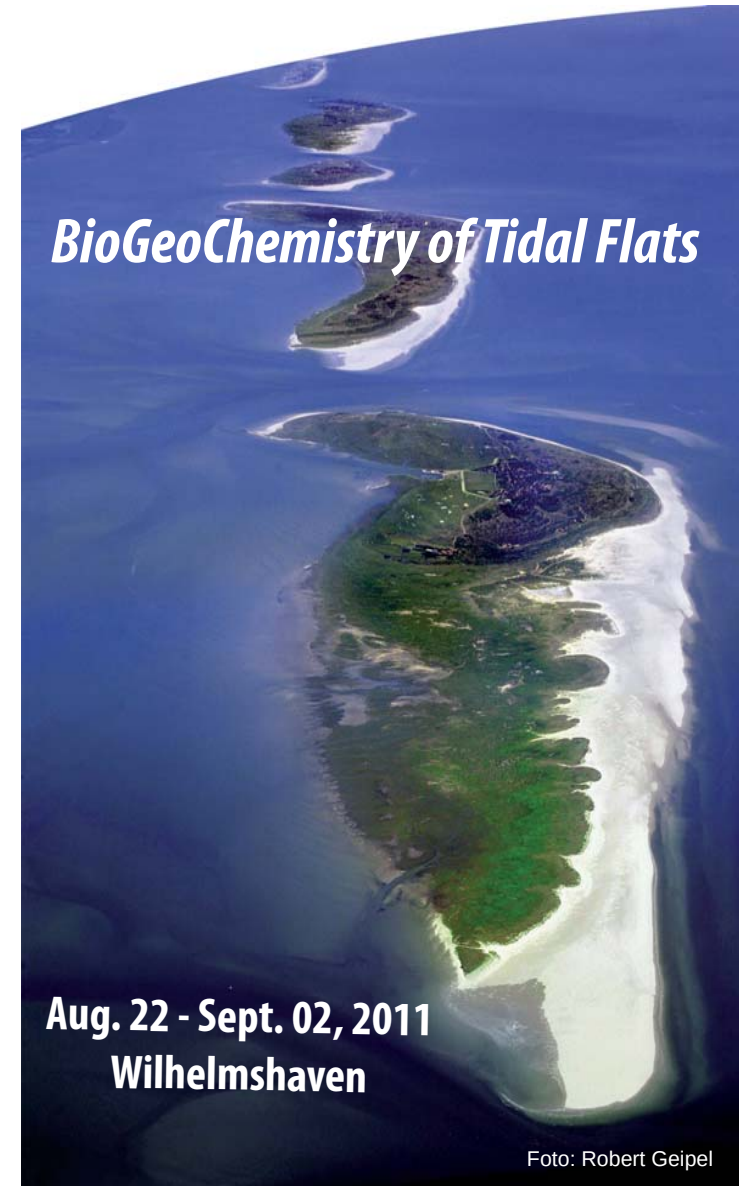
<http://www.icbm-summerschool.uni-oldenburg.de/>



ICBM Summer School on „Coastal Systems“

BioGeoChemistry of Tidal Flats

Aug. 22 - Sept. 02, 2011
Wilhelmshaven



Scope

Tidal flats are an important feature of many coastlines affected by tides in various climate zones of the world. They belong to the most productive natural ecosystems on earth and play an important role in global biogeochemical cycles. Therefore, knowledge of the ecological processes of the flats is one keystone to predict the future of coastal systems in the light of global change and increasing exploitation.



Based on the experiences of the DFG Research Group on BioGeoChemistry of Tidal Flats, which ran from 2001 to 2009, participants will benefit from the multidisciplinary approach of the ICBM-researchers. The course will provide a fundamental understanding of important processes in tidal flats, considering sedimentology, the microbial world, chemical and biological interactions, and mathematical modeling. Practical exercises will focus on pore water and sediment sampling, analytical procedures, and data analysis.

Topics

- Introduction to the unique back-barrier tidal flats in the southern North Sea
- Investigation of sedimentological, geochemical and microbiological processes
- Geophysical methods based on stationary and mobile measurements
- Suspended particulate matter fluxes and dissolved organic matter
- Trace metal dynamics
- Bacterial communities and microbial activities
- Temporal and spatial circulation patterns
- Seasonal variations and extreme events
- Modeling the biogeochemistry of the tidal flat ecosystem
- Dynamics of food webs
- Bioinvasion



Readings

Ocean Dynamics (2009): Special Issue on BioGeoChemistry of Tidal Flats, Volume 59, Nr. 2:157-427

Organisation

It is expected that all participants will be accommodated at the guest house of the institute. Please, note that there will no regular board at the location, but full equipment for preparing food is available and a few small snack bars are close to the building.



The fee for the two weeks is 150 EUR including accommodation in multi bed rooms and coffee breaks.

The maximum number of participants is restricted to 15, organized in 3-5 groups. The group arrangement will be done by the organization committee considering individual scientific experience. The students will work in daily seminars, field trips, and practical exercises together with the scientists of our institute. A social and visiting program completes the schedule.