

Joint Course Programme

EUROPROX European Graduate College Proxies in Earth History
GLOMAR Bremen International Graduate School for Marine Sciences
MARUM Excellence cluster "The Ocean in the Earth System"
NEBROC Netherlands Bremen Oceanography Cooperation
NSG Netherlands Research School for Sedimentary Geology
POLMAR Helmholtz Graduate School for Polar and Marine Research

MARUM / GLOMAR Expert Course:

Introductory Course to Marine Sciences Part I: Physical Oceanography and Climate

Dr. Torsten Bickert¹, Prof. Dr. Reiner Schlitzer², , Dr. Thomas Felis¹, Dr. Dagmar Kieke³, Dr. Stefan Mulitza¹, Dr. Jürgen Pätzold¹, Dr. Andre Paul¹, Dr. Jan-Berend Stuut⁴

14-18 March 2011, MARUM, Bremen

Objectives

The aim of the course is to introduce some main fields of marine sciences, i.e. physical oceanography, paleoceanography, climate research. The programme is multidisciplinary, all disciplines will be discussed as components of an integrated system. Many practicals and exercises will be offered related to the given topics.

Topics

- physical properties of seawater, ocean heat budget, thermohaline circulation
- tracer oceanography, introduction to ocean data view software (ODV)
- principles of proxy application in climate research, paleoceanography
- abrupt climate changes, climate variability on seasonal timescales
- radiocarbon dating

Location

MARUM, University of Bremen, Leobener Strasse, 28359 Bremen, Germany Room 2070

Course schedule

Morning (9.00-12.30) and afternoon (13.30-17.00) sessions

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³ Institute of Environmental Physics, University of Bremen (IUP)

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To subscribe

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