



Marine Geoscience (7.5 ECTS)

- Course at the Skallingen Laboratory in Ho, west Denmark
- Offshore fieldwork by rubber boat in the Ho bay
- Offshore fieldwork in the Wadden Sea with a German research vessel.

Preliminary dates: 18 April -24 April 2010.

Are you interested in marine environments?

Are you studying geology, geography, biology or related items at master level?

Would you like to achieve theoretical and practical competence in marine sedimentary and environmental processes and research methods?

Would you like to meet scientists and students with similar interests in the marine environment?

For further information please contact:

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Associate Professor Lars Ole Boldreel.

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Purpose

The purpose of this course is to provide knowledge about sea floor processes, marine transport processes in shallow and deep water, marine environment, high resolution seismics in shallow waters, georadar in coastal zones, climate links, palaeoceanography and practical experience in selected marine research methods

Language

- English

Examination/evaluation

- Active participation during the course is required.
- An individual report is to be handed in after the course.
- The report is graded accepted/not accepted with internal censorship.

Teachers are staff members of

- IGG (Department of Geography and Geology) GeoCenter Denmark, Copenhagen University-Dr. J. Bartholdy; Dr. L.O. Boldreel, Dr. J. Thiede.
- GEUS (Geological Survey of Denmark and Greenland) GeoCenter Denmark- Dr. A.Kuijpers; Dr. N.Mikkelsen; Dr. J.B.Jensen; Sen.Res. T.Nielsen
- Department of Earth Sciences, GeoCenter Denmark, Aarhus University- Dr. M-S.Seidenkrantz ,
- AWI (Alfred Wegener Institute), Sylt, Germany- Dr. C. Hass
- UHH (University of Hamburg, Germany) Geologisch Paläontologisches Institut und Museum, Germany- Dr. S. Lindhorst

How to participate?

- It is required that you are associated with the University of Copenhagen- **foreign student contact the International Office at University of Copenhagen- INT-admission@adm.ku.dk and send a mail to lob@geo.ku.dk that you have contacted International office**
- You hold a bachelor degree (or are close to it) in geology, geography, biology or corresponding qualifications.
- For KU students via www.punkt.ku.dk
- **Registration 1-10 December 2009**

Costs

- Expenses covering accommodation and meals will be in accordance with the rules of IGG and amount to approximately DKR 800.

Preliminary content of the course

Bed load transport and bedforms

Suspended sediment transport

Introduction to the geology of Sylt and offshore area

Introduction to the Ho Bugt area

Georadar-potential of investigation in coastal areas; exemplified by study from Westcoast of Sylt

Lectures and workshop on interpretation of sparker and Chirp III data (high resolution seismic) from offshore Sylt

Geological development and environment of the Baltic.

Deep water sedimentary processes in the North Atlantic and Antarctic and their relation to climate

Climate change in the North Atlantic Region.

Fieldwork Waden Sea area 1 day

Fieldwork Ho Bugt area 1 day

Galathea Expedition - NE Caribbean Leg

International Polar Year - Arctic expeditions

Project work and reporting: Basic Theory;
Exercises based on presented topics; Fieldwork;
Preliminary interpretation of results from Ho Bugt or offshore Sylt;

Text book

Paul R. Pinet: Invitation to Oceanography, Fourth Edition. The text book is meant as an introduction to the topic in order to secure a common background for all students. A limited number of books are available on a lent basis for students, and is to be returned at the end of the course