



Organizing Committee

Dirk Notz

Max Planck Institute for Meteorology, Germany

Peter M. Haugan

Geophysical Institute, University of Bergen, Norway

Frank Nilsen

University Centre in Svalbard, Norway

Karolina Widell

Geophysical Institute, University of Bergen, Norway

International Sea-Ice Summer School

Svalbard, 2-13 July 2007

Contact and registration

For further details and to apply visit
<http://www.seaice.info/>

Or send an email to
mail@seaice.info

A project of the International Polar Year

Sponsors

DAMOCLES

NordForsk

University Centre in Svalbard, Norway

University of the Arctic

Max Planck Institute for Meteorology, Germany

International Max Planck Research School on
Earth System Modelling, Germany

University of Bergen, Norway

Bjerknes Centre for Climate Research, Norway

International Union of Applied and Theoretical Mechanics



www.seaice.info

Photos: F. Nilsen, J.H. Koren, K. Widell

International Sea-Ice Summer School

Svalbard, 2-13 July 2007

Sea ice plays an active role in the Earth's climate system and reacts rapidly to climatic changes. To reflect the recent progress in our understanding of sea ice and its interaction with the ocean, the atmosphere and the biosphere, an International Sea-Ice Summer School will be held in Svalbard in July 2007. World-leading experts will lecture on a wide range of sea-ice related subjects to give an overview of the state of the art in sea-ice research.

The teaching will be a combination of lectures, exercises, student presentations (poster sessions) and discussion. An active social program with exciting excursions will give ample opportunity to make contacts with researchers from around the world and to experience life in the high Arctic at first hand.

The school is held in association with the University of the Arctic (UArctic) at the University Centre in Svalbard (UNIS) and is part of the outreach program of the International Polar Year.



Participation

The teaching at the summer school is mainly aimed at PhD (and Masters) students, but PostDocs and senior scientists are also welcome to apply. The deadline for application is **15 February 2007**. The participation fee for the school is 750 Euro, including accommodation, lunch, social events and excursions. For students, a number of full and fees-only studentships are available. Further details and application forms can be found at www.seaice.info.



Location

The school will be held at the University Centre in Svalbard (UNIS) in Longyearbyen, situated on Spitsbergen in the Arctic archipelago Svalbard. Longyearbyen is an old Norwegian mining town, surrounded by mountains, fjords and glaciers. With 1800 inhabitants it is the largest settlement in the archipelago and its administrative centre, with extensive, modern facilities. Average air temperature in July is +6 °C and there are 24 hours of daylight.



Topics

Currently, lectures are planned on:

- The growth, structure and decay of sea ice
- Air/ice/sea interaction in the Arctic and Antarctic
- The sea-ice heat budget
- Sea-ice dynamics
- Snow on sea ice
- Frostflowers
- Sea-ice related biology
- Biogeochemistry of sea ice
- Gas transport through sea ice
- Large-scale experiments
- Remote sensing
- Ice-atmosphere interaction processes
- Ice-ocean interaction processes
- Analytical sea-ice models
- Numerical sea-ice models
- Mesoscale modelling
- Sea-ice reconstruction from paleo proxies
- Iceberg-ocean interaction
- Historical overview of Russian polar research
- Sea ice and offshore structures
- The future of sea ice