

Fifth Workshop on Baltic Sea Ice Climate

31 August - 2 September, 2005

First Circular

Introduction

The workshop is a continuation of meetings each third year in countries around the Baltic Sea. The First Workshop on Baltic Sea Ice climate was held in Finland August 1993, the second in Estonia 1996, the third in Poland 1999 and the fourth in Sweden 2002. The importance of sea ice in the regional system of the Baltic Sea has been addressed in the past Baltic Sea Ice Workshops. Ice has been identified to be a key element in the water, energy and mass cycles of the Baltic Sea. In dependence of large-scale atmospheric circulation and the related local air temperature in the Baltic Sea region the variability in sea ice cover is significant due to its short memory closely connected to the actual weather conditions. Its spatial and temporal long-term variability has been discussed on the last Baltic Sea Ice Workshop in Norrköping in 2002. After the long cooperation of the Baltic Sea Ice researchers community, on the last Baltic Sea Ice Climate workshop the importance to open this workshop to contributions from other seasonally ice covered seas was identified. With the present workshop we aim to offer a forum for active discussions between the Baltic Sea ice community and scientists more concentrated in other regional sea ice problems to increase the dialog and exchange ideas about available data sets, models and methods.

Objectives of the workshop

The international Fifth Workshop on Baltic Sea Ice Climate will be held in Hamburg, Germany 31, August-2, September, 2005 at Centre of Marine and Atmospheric Sciences (ZMAW) at University Hamburg. The meeting will review research results related to the Baltic Sea ice in past, present and future climate conditions.

Scientific Program

The workshop will be divided into special sessions with particular emphasis on the topics listed below, identified as future challenging research areas from the discussions at the last Baltic Sea Ice workshop. Scientists from the Baltic Sea region, as well as from other regional seas, seasonally covered by sea ice, are hereby kindly invited to participate in the Fifth Workshop on Baltic Sea Ice Climate. The key Topics are:

- Sea ice basins of the seasonal sea ice zone (invited speakers)
- Sea ice dynamics from engineering to geophysical scales
- Analysis of climatological ice time series
- Better understanding of the skill in climate scenarios
- Better understanding and modelling of atmospheric low-frequency changes on decadal and centennial (Little Ice Age) time scales
- Albedo and light transfer models and measurements.
- Interaction of snow and ice.
- New ice data sets in the Baltic including ice thickness and improved sea ice climate data.

- Influence of ice on ecological conditions and the biotic influence on physical properties in ice (e.g. optical properties)
- Baltic Sea ice biology and ecology

Date and place

The workshop will be held from *31, August –2, September 2005* at ZMAW in Hamburg, Bundesstrasse 53, Germany.

Organisation

The workshop on Baltic Sea Ice Climate is organised by the Center of Marine and Atmospheric Sciences (ZMAW), the Bundesamt für Seeschifffahrt und Hydrographie (BSH) and by the Schrum&Wehde Ecosystem Modelling GbR. The scientific advisory committee includes:

Prof. Anders Omstedt, Gothenburg University, Sweden.

Prof. Matti Leppäranta, University of Helsinki, Finland.

Dr. Johanna Ikävalko, Finnish Institute of Marine Research, Finland.

Prof. Kunio Shirasawa Sea Ice Research Laboratory, Hokkaido University, Japan [Okhotsk Sea]

Prof. Hardy B. Granberg, University of Sherbrooke, Sherbrooke, Quebec, Canada [Gulf of St. Lawrence, Hudson Bay and Labrador Sea, Canada]

Dr. Ingo Harms, ZMAW, University Hamburg, Germany [Barents Sea, Kara Sea]

Dr. Bin Cheng, Finnish Institute of Marine Research, Helsinki [Bohai Sea]

The local committee includes:

Dr. Corinna Schrum (Ecosystem Modelling GbR, Hamburg, Germany)

Prof. Burkhard Brümmer (ZMAW, University Hamburg, Germany)

Dr. Natalja Schmelzer (Bundesamt für Seeschifffahrt und Hydrography BSH, Germany)

Secretariat:

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Call for Papers

Contributions, both oral and poster, related to the scientific program as outlined above are welcome. A full title for the presentation is requested to be submitted to the workshop secretariat by all participants who wish to give presentations. Deadline: *31 May, 2005*

Workshop Registration and Hotels

Workshop participants will have to register to the workshop secretariat *before 31 May, 2005*. A list of Hotels near the Campus area is included, workshop participants are requested to take care of hotel

booking by themselves. A workshop dinner will be organized (approximate fee about 30 Euro)
participants are asked to indicate their interest in participation.

For information please contact: schrum@dkrz.de