



“The marine ecosystem in changing climate –
on the added value of coupled climate-
environmental modeling for the Baltic Sea”

Workshop at SMHI Friday October 16th

Time: October 16th, 2009, 10.00-17.00

Coffee from 09.00

Place: Hörsalen at SMHI in Norrköping

Registration: To register for the workshop please e-mail anneli.arkler@smhi.se at latest September 20th (note the number of participants is limited to 90)

The workshop is free of charge and open for all interested scientists

The aim of this workshop is to bring scientists with interest in the marine ecosystem and changing climate together and to discuss collaboration. Within the **ECOSUPPORT** project an advanced modeling tool for scenarios of the Baltic Sea ECOsystem to SUPPORT decision making will be developed (see www.baltex-research.eu/ecosupport/). ECOSUPPORT is funded by the **BONUS** program (see www.bonusportal.org). The objectives of ECOSUPPORT are to calculate the combined effects of changing climate and changing human activity (changes of nutrient loads from land and air, coastal management, fisheries) on

the Baltic Sea ecosystem, to perform multi-model ensemble simulations, and to quantify uncertainties. During the project period 2009-2011 many scenario simulations will be performed and a large amount of model data describing the possible future development of the marine ecosystem will be available.

We feel that there is substantial overlap of interests between ECOSUPPORT and other projects within BONUS and other programs. To stimulate cooperation and the exchange of data we invite all interested scientists to join the workshop and to discuss the impact of changing climate on the marine ecosystem.

Please help us to distribute this invitation within your projects and scientific networks. If you wish to make a presentation of your project please send us title and abstract. Depending on the number of submitted papers presentations will be either oral or poster.

Preliminary workshop program October 16

From 09:00 Registration and coffee

10:00 Welcome

10:05-12:15 Presentations

- **Markus Meier, SMHI: Impact of changing climate on biogeochemical cycles in the Baltic Sea – An introduction**
- **Bo Gustafsson, Baltic Nest Institute: First results from coupled physical-biogeochemical modelling within the BONUS+ project ECOSUPPORT (An advanced modeling tool for scenarios of the Baltic Sea ECOsystem to SUPPORT decision making)**
- **Christoph Humborg, Baltic Nest Institute: First results from the BONUS+ project RECOCA (Reduction of Baltic Sea Nutrient Inputs and Cost Allocation within the Baltic Sea Catchment)**
- **Ivan Kuznetsov, Baltic Sea Research Institute, Warnemünde: Simulation of the carbon cycle in the Baltic Sea**
- **Anders Omstedt, Gothenburg University: Building predictive capability regarding the Baltic Sea organic/inorganic carbon and oxygen system**
- **Zhenwen Wan, Danish Meteorological Institute: Modeling Study on the seasonality of Ecosystem Dynamics in the Baltic Sea**
- **Agneta Andersson, Umeå University: Effect of increasing load of allochthonous organic carbon and inorganic nutrients on the efficiency of a marine pelagic food web.**

12:15-13:15 Lunch

13:15-14:30 Presentations

- **Jan Marcin Weslawski, Institute of Oceanology, Sopot: Biological valorization of the Southern Baltic Sea (TBA)**
- **Per Jonsson, Gothenburg University: Dispersal of marine organisms in the Baltic Sea estimated from Lagrangian trajectories driven by ocean circulation models**
- **Inari Helle, Helsinki University: IBAM - Integrated Bayesian risk analysis of ecosystem management in the Gulf of Finland**
- **Anna Gårdmark, Swedish Board of Fisheries: Biological Ensemble Modelling to improve fisheries science and management**

14:30-15:00 Coffee

15:00-17:00 Discussion of collaboration and data exchange

- **All**

Accommodation

Rooms have been pre-booked until 20 September 2009 at Hotel Kneippen, www.kneippen.se . Booking code "SMHI", 620 SEK incl breakfast.

E-mail: hotel@kneippen.se

Welcome!
Markus Meier