



BALTIC SEA STATES SUBREGIONAL CO-OPERATION



- Open political network of regional authorities
- More than 100 participating regions from the 10 BSR countries
- Under the umbrella of CBSS
- Founded in 1993
- Hamburg chairs 2009-10

BSSSC: A new stakeholder for BALTEX

2 February 2009:

Workshop BSSSC/BALTEX: *Meeting the climate challenge*

Geesthacht, Germany

At the occasion of the *1st BSSSC Board Meeting under the City of Hamburg's chair*





13 - 15 October 2009: Annual BSSSC Conference

Plenary presentation Hans von Storch: Adaptation to climate change

Workshop 2 "Regional policy in view of climate change"
Chair: Hans-Jörg Isemer

Workshop 2: Regional Policy in view of Climate Change



WHITE PAPER

Adapting to climate change: Towards a European framework for action

European Commission COM (2009) 147, April 2009



Pillars of actions towards regional policy development:

1. Assess climate change at regional to local scales
2. Improve the knowledge base on adaptation options
3. Improve knowledge management: Transfer from science to decision makers
4. Establish policies and policy instruments and implement international cooperation on adaptation

Sequence of sustainable action





Workshop contributions

1. Sonja Deppisch (DE): Examples of research-practice projects on climate change adaptation in the Baltic Sea Region
2. Heikki Tuomenvirta (FI): Climate change information serving adaptation policy and actions in Finland
3. Elysabeth Frydenlund (N): An energy perspective on regional policy in view of climate change - Inland Norway
4. Holger Lange (DE): Hamburg climate policy: Mitigation and adaptation

BSSSC: A new stakeholder for BALTEX



Draft plan for future BALTEX - BSSSC cooperation:

BSSSC/BALTEX Conference: Adaptation to climate change at the regional scale in the Baltic Sea region

Hamburg, May 2011

Actions in support of objectives 5 and 6 of BALTEX:

Interaction with decision-makers and Outreach

BSSSC: A new stakeholder for BALTEX!





Suggestion for discussion:

Organize a **dedicated BALTEX Conference** on:

Climate change in the boreal Baltic Sea basin - Environmental status and socio-economic responses

Time window: summer/autumn 2011

Location: in the region, eg Helsinki, Sodankylä, Lulea, Stockholm

Potential organisers: FMI, SYKE, SMHI, other universities, BALTEX

Possible related programs: NEESPI, LOICZ, HELCOM

A follow-up to the Gothenburg (2006) and Szczecin (2009) conferences

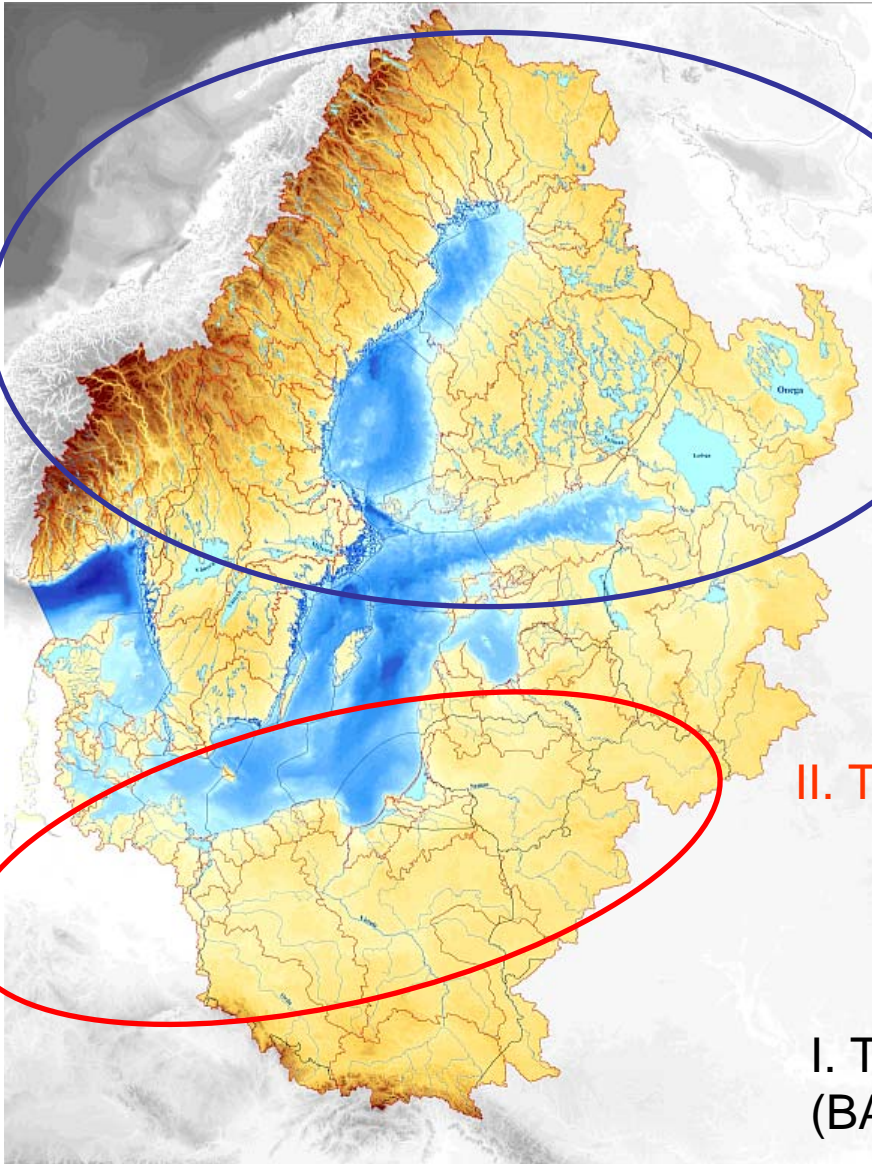


BALTEX Regional Climate Conferences

III. The *Lulea* Conference 2011

II. The *Szczecin* Conference 2009

I. The *Gothenburg* Conference 2006
(BACC)





2009 - The year of the BALTEX events - Overview

February 2: Workshop BSSSC/BALTEX: Meeting the climate challenge
Geesthacht, Germany

4-8 May: 2nd International Lund RCM Workshop on
21st Century Challenges in Regional-scale Climate Modelling

25 - 28 May: International Conference on Climate Change –
The environmental and socio-economic response in the southern
Baltic region

27 July - 7 August: International Summer School on
Climate impacts on the Baltic Sea - From science to policy

October 14: Workshop “Regional policy in view of climate change”
Ringstedt, Denmark, Annual BSSSC Conference



Presentations 2009

- M. Reckermann: **Implementation of the ECOSUPPORT web pages in the BALTEX web site.** ECOSUPPORT Kickoff-Meeting, Norrköping, Sweden. **26 January 2009**
- H.v. Storch, H.-J. Isemer, M. Reckermann and the BACC Team: **BALTEX Assessment of Climate Change in the Baltic Sea Region.** International Advanced PhD Course on “Climate Impacts on the Baltic Sea: From Science to Policy”, Nexø, Bornholm, Denmark. **27 July - 5 August 2009**
- M. Reckermann, H.-J. Isemer: **BALTEX – The Baltic Sea Experiment: An Environmental Research Network for the Baltic Sea Basin.** International Advanced PhD Course on “Climate Impacts on the Baltic Sea: From Science to Policy”, Nexø, Bornholm, Denmark. **27 July - 5 August 2009**
- M. Reckermann: **IPCC – Organization and AR4 Key Results.** International Advanced PhD Course on “Climate Impacts on the Baltic Sea: From Science to Policy”, Nexø, Bornholm, Denmark. **27 July - 5 August 2009**
- H.v. Storch, H.-J. Isemer, M. Reckermann and the BACC Team: **BALTEX Assessment of Climate Change in the Baltic Sea Region.** 6th GEWEX International Conference, Melbourne, Australia. **25 August 2009**
- M. Reckermann: **Updates and Modifications on the ECOSUPPORT web site.** ECOSUPPORT General Assembly, Norrköping, Sweden. **15 October 2009**



Publications 2009

- **Minutes of 23rd BSSG meeting, Helsinki**
- **1st announcement for 6th Study Conference on BALTEX**
- **Proceedings volume on “2nd International Lund RCM Workshop on 21st Century Challenges in Regional-scale Climate Modelling”**
- **Proceedings volume on “International Conference on Climate Change – The environmental and socio-economic response in the southern Baltic region”**
- **Article in the “American Geophysical Society - Atmospheric Sciences” Newsletter: Burkhardt Rockel, Lars Bärring and Marcus Reckermann: The 2nd Lund Regional-scale Climate Modelling Workshop: 21st Century Challenges in Regional-scale Climate Modelling**
- **Newsletter #13**
- **BALTEX Phase II Revised Objectives**
- **2nd announcement for 6th Study Conference on BALTEX**

Miscellaneous

- **Hosting and keeping the BALTEX web site updated**
- **Almost finalization of a BALTEX Outreach web site**
- **Preparation of the 6th Study Conference on BALTEX (separate pres.)**



2nd International Lund RCM Workshop on

21st Century Challenges in Regional-scale Climate Modelling

4 - 8 May 2009, Lund University, Sweden

Approx. 200 participants worldwide

Topics:

- Dynamical downscaling
- New developments in numeric and physical parametrization
- From weather to climate
- Regional observational data and re-analysis
- Results from Large Projects
- The future of RCMs
- Impact studies



**A Special Proceedings Issue
in preparation for the Intl. Journal
“Meteorologische Zeitschrift”**





International Conference on

**Climate Change –
The environmental and socio-economic
response in the southern Baltic region**

25 - 28 May 2009, Szczecin, Poland

120 participants from 13 countries



Topics:

- **Marine and terrestrial proxies for reconstructions of paleo-climate**
- **Modeling of past climate change and future projections**
- **Climate and anthroposphere interactions**
- **Prehistoric communities and climate change**
- **Climate variability and change impacts on Baltic Sea coasts**



Landesamt für Umwelt,
Naturschutz und Geologie



**A Special Proceedings Issue in preparation for the
Intl. Journal "Climate Research"**

Activities 2009

International Summer School on

Climate impacts on the Baltic Sea - From science to policy

27 July – 7 August 2009,
Nexø, Bornholm, Denmark

20 students from Dk, S, Fi, Est, Pl, D



- Emphasis on modelling and the interpretation of observations and modelling results of physical and biogeochemical processes in the Baltic Sea and the drainage basin under climate change
- Interdisciplinary dimension
- Hand-on simple modelling exercises
- Group exercises include data workup and interpretation
- Case studies
- **Text book in preparation**





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October 2009

World Climate Research Programme / Global Energy and Water Cycle Experiment
WCRP
GEWEX

Summer climate on Bornholm - BALTEX co-organizes interdisciplinary Summer School

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At the peak of the summer, from 27 July until 5 August 2009, BALTEX, the Danish Technical University (DTU Aqua) and the University of Gothenburg co-organized a Summer School on the island of Bornholm. 20 students from across the Baltic Sea region and different scientific disciplines participated in good spirit and took the opportunity to learn both discipline-specific and interdisciplinary skills related to the topic of the course: "Climate Impacts on the Baltic Sea - From Science to Policy".



Participants in the Summer School on Bornholm, 2009

The challenge of climate change in the Baltic Sea region has different facets, and the aim of the course was to provide a true interdisciplinary approach to tackle this challenge. Scientific knowledge, assessment and advice are needed in order to make effective decisions on policy and management actions which will achieve society objectives for the marine and coastal ecosystems of the Baltic Sea.

The main purpose of this summer school was to help students develop skills in and understanding of the observation, modelling, projection and interpretation of physical and biological changes in the Baltic Sea. The course focussed on the quantitative scientific aspects of climate change impacts in the Baltic Sea, but interaction and communication between scientists and policy makers was also among the goals. An interdisciplinary view will be increasingly in demand as the societal pressures on marine ecosystems remain high or perhaps increase as climate changes. Thus, one main objective of the course was to demonstrate how discipline-specific knowledge can contribute to real management solutions at the ecosystem level, and how that knowledge can help achieve wider goals related to ecosystem-based approaches to management.

Students were assigned activities to develop their discipline-specific knowledge, learn how the knowledge could be translated to management and policy actions, and improve general scientific skills (i.e. oral and written presentation of scientific results; organisation and structuring of group work; collaboration with colleagues from different nations and disciplines). The course contained lectures, exercises, discussion tutorials and group exercises. One type of group exercise was discipline-specific (e.g. related to

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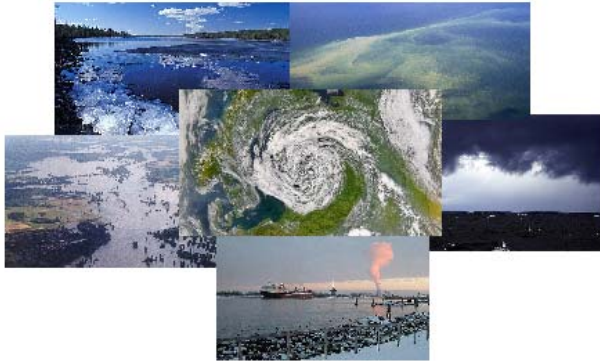
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BALTEX Phase II 2003 – 2012



November 2009

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Revised Objectives

**A Summary Amendment to the BALTEX Phase II
Science Framework and Implementation Plan**

BSSG 24: Publications



Second Announcement - Call for Papers

6th Study Conference on BALTEX
14 - 18 June 2010

Międzyzdroje, Island of Wolin
Poland

DRAFT



in co-operation with



November 2009

2nd Announcement for the
6th Study Conference on BALTEX