

**Designing**

**BACC II**

**Lund, Sverige  
12 April 2010**



# The Climate Change Assessment: Report for the Baltic Sea catchment - BACC

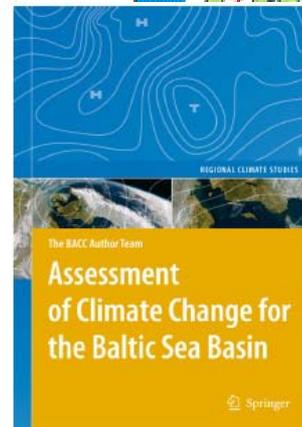
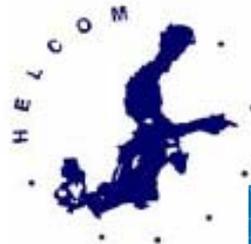


An effort to establish which scientifically legitimized knowledge about anthropogenic climate change is available for the Baltic Sea catchment.

Approximately 80 scientist from 10 countries have documented and assessed the published knowledge.

The assessment has been accepted by the inter-governmental HELCOM commission as a basis for its future deliberations.

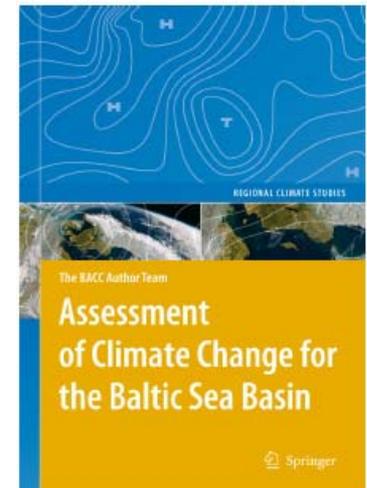
In 2013 a second assessment report (**BACC II**) will be published.





# BACC results – in short

- Presently a warming is going on in the Baltic Sea region, and will continue throughout the 21st century.
- BACC considers it plausible that this warming is at least partly related to anthropogenic factors.
- So far, and in the next few decades, the signal is limited to temperature and directly related variables, such as ice conditions.
- Later, changes in the water cycle are expected to become obvious.
- This regional warming will have a variety of effects on terrestrial and marine ecosystems – some predictable such as the changes in the phenology others so far hardly predictable.



# climate consensus reports have become a regular tool for science-stakeholder exchange

## Assessments about regional climate change

- for the recent past (200 years), for present change and possible future change

- consensus of what is scientifically documented

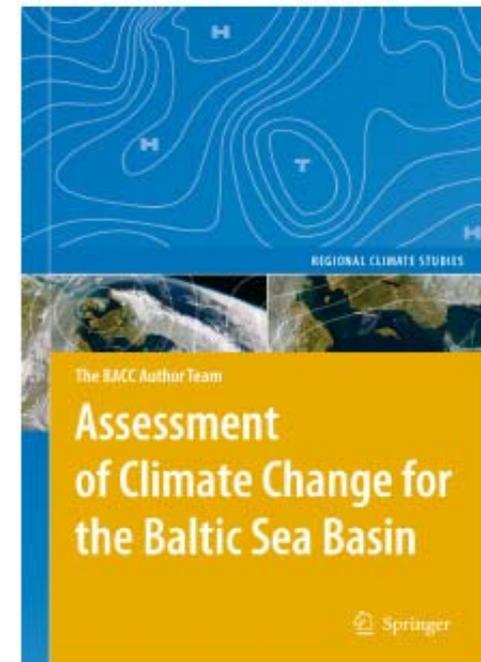
for

+ Baltic Sea (BACC)

+ Hamburg region (underway)

+ North Sea (planned with AWI Bremerhaven)

+ Laptev Sea (planned with AWI Bremerhaven)



# Climate assessment for the metropolitan region of Hamburg

In 2007-2010 a climate assessment report about the scientifically documented knowledge of climate change in the region of Hamburg will be prepared. This is an activity of the Climate Center of Excellence CLISAP at the University of Hamburg, jointly operated with GKSS and MPI.

The effort is supported by the Senate of Hamburg and by the Environmental Ministry of Schleswig Holstein.



## The **purpose**

of the BACC assessment is to provide the scientific community with an assessment of ongoing climate change in the Baltic Sea basin. An important element is the comparison with the historical past (until about 1000?) to provide a framework for the severity and unusualness of the change. Also changes in relevant environmental systems, due to climate change, shall be assessed – such as hydrological change, ecosystems, and ocean waves.

The overall format is similar to the IPCC process, with author groups for the individual chapters, an overall policymaker-summary, and a review process.

**A survey will be conducted on the opinions of regional climate researchers.**

# Principles

- BACC considers only legitimately scientific material, i.e. material available from libraries.
- Scientific contributions are welcome only from scientifically accepted institutions, not from groups with a political, economic or ideological agenda.
- Questions from political, economic or ideological groups are welcome.
- No financing by third parts
- Purpose is the presentation of consensus about knowledge and lack thereof.
- The assessment will be evaluated by independent scientific reviewers.