



2nd BALTEX Assessment of Climate Change for the Baltic Sea Basin (BACC II)

Minutes

1st BACC II Lead Author Team Meeting

23 and 24 November 2010,
Wallenberg Conference Centre
Gothenburg, Sweden



Participants (from left to right): Anders Omstedt, Phil Graham, Sonia Deppisch, Anna Wramneby, Anna Rutgeresson, Joanna Wibig, Benjamin Smith, Sirpa Rasmus, Christoph Humborg, Jukka Käyhkö, Tadeusz Niedźwiedź, Sirje Keevalik, Marcus Reckermann, Dennis Bray, Birgit Hünicke, David Simpson, Irena Borzenkova, Jari Haapala, Rajmund Przybylak, Ole Bøssing Christensen, Jüri Elken, Bernd Schneider, Joachim Krug, Hans-Jörg Isemer, Markku Viitasalo, Hans von Storch, Ilpo Vuorinen, Pekka Niemelä

This was the first joint meeting of the BACC II Team, bringing together the new Lead Authors (LAs) and the members of the Science Steering Committee (SSC). The aim of the meeting was to allow an exchange of information and views as well as to review and adjust, if appropriate, the future time schedule for BACC II. The meeting title (1st BACC II Lead Author Team meeting) is to emphasize the quality of BACC as a team effort. The main outcome of this meeting was intended to be a clarification, mutual understanding and agreement of chapter contents to avoid overlaps and warrant a consistent and coordinated book structure. The discussions were vivid and open, and many aspects could be resolved, while some issues still remain to be settled.

1. Introduction and welcome

Anders Omstedt welcomed the BACC II Lead Authors to the Wallenberg Center of the University of Gothenburg. He acknowledged that almost all approved BACC II Lead Authors attended the meeting (see participant list). Åke Hagström, director of the Swedish Institute for the Marine Environment, gave a short introduction to the recently founded institution. Following this, all participants shortly introduced themselves.

2. BACC background and principles

Anders Omstedt presented some current scientific findings concerning regional climate change in the Baltic Sea region and gave an overview over the past BACC process and its results. Hans von Storch summarized the basic principles of BACC and BACC II. The presentations are available on the internal BACC II website: <http://www.baltex-research.eu/BACC2/inside/internal.html>

3. BACC history and organisation of the BACC process

Hans-Jörg Isemer gave an overview on the history of BACC. The project started in September 2004 at a meeting in Risø, Denmark, where the idea to summarize the available knowledge on climate change in the Baltic Sea region was born. The first BACC LA workshop was held in Helsinki, May 2005. A year later, in May 2006, there was an International Stakeholder Conference on BACC in Göteborg, including a panel discussion forum featuring scientists, politicians and journalists. At this meeting, LAs presented the contents of their respective chapters, which by then had already undergone a first review process. Again one year later, the HELCOM Thematic Assessment on “Climate Change in the Baltic Sea Area” was published, which was based on the revised BACC chapters. In January 2008 the BACC Report was published by Springer. The original time frame had been much more ambitious: it was planned to have the BACC book published by the end of 2005. Still, the period between the first idea for the project and the chapters going to the first review round was less than one year. In summary, three particular actions within BACC I can now be identified as having delayed the execution of the original time schedule: 1) the external review process, 2) the unexpectedly arisen need to perform an additional external review for part of the material, and, 3) the final editing including preparation of the print-ready manuscript. These findings shall be considered for the time planning of BACC II.

Marcus Reckermann specified the administrative activities at the International BALTEX Secretariat (IBS) related to BACC and BACC II, which is keeping up the communication between authors and the SSC, provides for the organisation of meetings and the collection of manuscripts, supports the organisation of the review process as well as the communication with reviewers as well as communication and negotiations with the publisher, including the preparation and processing of author agreements and figure permissions.

There are two online resources for BACC II: 1. the BACC II website, featuring a password protected area for exchanging files, and 2. a BACC web log (blog) intended as an open discussion forum for content related and technical aspects of BACC and BACC II. Further information on the use of these two platforms is being sent out to BACC II LA's and SSC by e-mail.

<http://www.baltex-research.eu/BACC2/>

<http://thebaccblog.blogspot.com/>

4. Experiences of former BACC Lead Authors

Former BACC LAs and current BACC II SSC members Phil Graham, Benjamin Smith and Ippo Vuorinen gave a short report on their experiences and possible advice for current LAs. The following issues were explicitly mentioned and should be taken as advice to BACC II LAs:

- Establishment of a chapter outline and involvement of Contributing Authors (CAs) as soon as possible
- Provision of Contributing Authors (CAs) with sub-headings/bullet lists for their respective contributions
- Clarification of what to expect from CAs
- Establishment of a time table, specification when inputs by CAs are required; strict deadlines
- Editing of the complete chapter, consistency in writing style (re-writing of CA's contributions may be necessary while keeping the content)
- Close communication and collaboration between different LAs within one grand chapter (e.g. within "grand" Chapter 3 there are 3 sub-chapters with 2-4 LAs each)
- Self-organized meetings and workshops for LAs and CAs of respective chapters and sub-chapters

5. LA presentations and discussion

LAs were given the opportunity to shortly outline the concept of their respective chapters at this early stage. These short presentations which were vividly discussed are available at the internal BACC II website: <http://www.baltex-research.eu/BACC2/inside/internal.html>

6. Decisions

- Drafting of an official invitation letter for use by Lead Authors to invite Contributing Authors; the letter should contain brief background information and should help recruiting CA's (*completed and sent to BACC II Lead Authors*).
- CAs will be fully credited in the final book; similar to how this was done in the BACC I book.
- Chapter coordinators should be appointed to overlook the consistency in contents, structure and style within grand chapters (e.g. Chapter 3 "Recent (mainly 200 years) and current climate change", and sub-chapters (e.g. Chapter 3a. "Atmosphere"). Chapter coordinators could be recruited from the list of LAs of that respective chapter.
- Grand chapters (i.e. the highest hierarchical chapter level) should have an introductory paragraph and a summary
- BACC II should concentrate on new publications since the final BACC I chapter deadline in summer 2006, as well as publications before that date missing in BACC I. The available knowledge extensively put down in BACC I should be summarized in BACC II so that the product will be a book fully readable on its own, yet not repeating the detailed and extensive work of BACC I.
- Material and draft chapter manuscripts will be made available to BACC II LAs and SSC members via the internal password protected BACC II web page: <http://www.baltex-research.eu/BACC2/inside/internal.html>. User name and password will be distributed by e-mail.
- HELCOM has expressed its interest in publishing a comprehensive HELCOM Assessment report based on the BACC II material, to be published by mid 2013 in connection with the HELCOM Ministerial Meeting which will take place that year. Further details will be discussed at the forthcoming BACC II Lead Author Meeting in late March 2011 in Hamburg.

7. Open issues

- The current chapter structure leaves no dedicated home for model results in the fields specified in Chapter 3, which focuses on past and current climate change. A possible solution could be the extension of Chapter 4b to reflect the sub-chapter structure of Chapter 3, as appropriate. Chapter 4b and 3 LAs are asked to find a suitable new structure accommodating this problem, e.g. a modification or extension of Chapter 4 to accommodate model results of hydrology, biogeochemistry etc. (*Action Item to Chapter 4b Lead Author Ole Bøssing Christensen, together with Chapter 3 Lead Authors*)
- Identification and invitation of a Lead Author for Chapter 6b: Attributing causes of regional climate change: Aerosols (natural and pollutants) (*Action Item to IBS together with LAs and SSC*)
- Identification of (a) book coordinator(s), who will look after consistency in contents, structure and style between chapters (*to be discussed*)
- Page limits per chapter (*to be discussed*)
- Possibly shifted chapter deadlines to allow impact chapters (5) to draw upon results of the observations (3) and scenario (4) chapters (*to be discussed*)

8. BACC II timescale, milestones and meetings

The following sequence of events, milestones and meetings was resolved. Not included in this table are the necessary workshops and meetings to be self-organized by Lead Authors.

Dates	Event/Milestone	Location	Comment
1 March 2011	Lead authors distribute chapter contents outline and list of appointed contributing authors to the IBS, IBS distributes to SSC and all LAs		Preparatory action e.g. through iteration by e-mail for the subsequent meeting
28-29 Mar 2011	2 nd BACC II Lead Author Team meeting	Hamburg	CAs identified and approved, final chapter structure adopted
10 Nov 2011	First version of BACC II chapters established	-	First internal draft deadline, internal iterations start
9-10 Feb 2012	3 rd Lead Author meeting	Copenhagen	internal iterations discussed
15 Apr 2012	Deadline: 1 st Draft Chapters completed and submitted to IBS	-	Draft chapters ready for external review
May 2012	External peer-review process starts	-	
Summer 2012	Review/Stakeholder Conference	Tallinn	of the “BACC/Göteborg 2006” type
End 2012	External peer-review process completed	-	Revision of chapters starting
Spring 2013	BACC II material revised according to review	-	
2013	HELCOM Ministerial Meeting		HELCOM report based on revised BACC II material to be finalised
Summer 2013	BACC II report finalised	-	
Autumn 2013	BACC II book manuscript print-ready	-	
End 2013	BACC II book published	-	

9. Appendices (attached)

- Agenda
- BACC II Book structure and Lead Authors as of 19 November 2010
- Participant list

10. E-Appendices

(available at <http://www.baltex-research.eu/BACC2/inside/internal.html>, password protected)

- Agenda
- BACC II Book structure and Lead Authors as of 19 November 2010
- Participant list
- Revised timeline, milestones and meetings (as of 24 Nov 2010)
- Overview over the BACC project and a summary of the BACC book (Anders Omstedt)
- Principles of BACC II (Hans von Storch)
- BACC - A look backwards (Hans-Jörg Isemer)
- Organizing the BACC process (Marcus Reckermann)
- Lead Author presentations

Abbreviations used:

BACC = BALTEX Assessment of Climate Change for the Baltic Sea Basin

CA = Contributing Author

IBS = International BALTEX Secretariat

LA = Lead Author

SSC = Science Steering Committee

Final approved version

Marcus Reckermann

22 December 2010

Appendix 1**1st BACC II Lead Author Team Meeting**

Wallenberg Conference Centre, Gothenburg, Sweden
23 and 24 November 2010

This first BACC II Lead Author Team Meeting has the important goal to give the BACC II Lead Authors a background on the BACC process and the main scientific statements, and to allow the Authors a cross-discipline discussion of chapter contents. The main outcome of this meeting should be a clarification and mutual understanding and agreement of chapter contents to avoid overlaps and warrant a consistent and coordinated book structure.

Tuesday, 23 November 2010**Chairperson: Anders Omstedt**

- 13:00 Welcome by Prof. Åke Hagström
(Head of Swedish Institute for the Marine Environment)
- 13:10 Self-introduction of participants (up to 1min each)
- 13:30 Overview over the BACC project and summary of the BACC book
(Anders Omstedt)
- 14:00 BACC principles (Hans von Storch)
- 14:30 Experiences of former BACC Lead Authors (Graham/Smith/Vuglinsky/Vuorinen)
- 15:00 *Health break*
- 15:30 Organising the BACC process (Isemer/Reckermann)
- 16:00 BACC II Lead Author's views and visions on chapter contents
See list of chapters and lead authors below (ca. 5min each)
- 18:00 End of day 1
- 19:30 *Joint BACC II dinner in the Ågrenska Villan*

Wednesday, 24 November 2010**Chairperson: Hans von Storch**

- 9:00 SurBACC2010 – An evaluation of the BACC book (Dennis Bray)
- 9:10 Discussion of chapter contents
- 10:00 *Health break*
- 10:30 Discussion of chapter contents
- 11:30 Wrap-up, milestones and outlook (next meeting)

12:00 End of the meeting

Appendix 2

BACC II Book structure and Lead Authors (as of 19 November 2010)

1. Introduction and summary *Hans von Storch and Anders Omstedt*

2. Past climate variability

- 2.a The Holocene (10.000 yr) *Irina Borsenkova*
- 2.b The historical time frame (1000 yr) *Tadeusz Niedzwiedz*

3. Recent (mainly 200 years) and current climate change

- 3.a Atmosphere
 - i. Atmospheric physics *Anna Rutgersson*
 - ii. Atmospheric Chemistry *David Simpson*
- 3.b Baltic Sea
 - i. Marine physics *Jüri Elken*
 - ii. Marine biogeochemistry *Bernd Schneider*
 - iii. Sea Ice *Jari Haapala*
 - iv. Sea Level *Birgit Hünicke*
- 3.c Land
 - i. Hydrology *Jukka Käyhkö*
 - ii. Terrestrial Cryosphere *Sirpa Rasmus*
 - iii. Vegetation, soil and freshwater biogeochemistry *Christoph Humborg*

4. Future climate change

- 4a. Skill of methods for describing regional climate futures *Joanna Wibig*
- 4b. Projections of future climate change *Ole B. Christensen*

5. Impacts of current and future climate change

- 5a. Climate-related terrestrial ecosystem change *Pekka Niemelä*
- 5b. Climate-related marine ecosystem change *Markku Viitasalo*
- 5c. Socio-economic impacts (agricultural practices, fisheries, aquaculture, land use...) *Michael Köhl*
- 5d. Urban complexes *Sonia Deppisch*

6. Attributing causes of regional climate change

- 6a. Global warming *Jonas Bhend*
- 6b. Aerosols (natural and pollutants) *NN*
- 6c. Land use and resource management *Anna Wramneby*

Annexes

- Empirical evidence for consensus and dissent among regional climate researchers *Dennis Bray*

Appendix 3

Participant List

Last Name	First Name	Affiliation	Country	E-Mail address	Function
Borsenkova	Irina	State Hydrological Institute	Russia	irena_borzen@mail.ru	LA Ch2a
Bray	Dennis	Helmholtz Zentrum Geesthacht	Germany	dennis.bray@hzg.de	LA Annex
Christensen	Ole Bøssing	Danish Meteorological Institute - DMI	Denmark	obc@dmi.dk	LA Ch4b
Deppisch	Sonia	HafenCity Universität Hamburg	Germany	sonja.deppisch@hcu-hamburg.de	LA Ch5d
Elken	Jüri	Tallinn University of Technology	Estonia	elken@phys.sea.ee	LA Ch3b i
Graham	L. Phil	Rosby Centre	Sweden	phil.graham@smhi.se	SSC
Haapala	Jari J.	Finnish Meteorological Institute	Finland	Jari.haapala@fmi.fi	LA Ch3b iii
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Humborg	Christoph	Stockholm University	Sweden	christoph.humborg@itm.su.se	LA Ch3c iii
Isemer	Hans-Jörg	International BALTEX Secretariat, Helmholtz- Zentrum Geesthacht	Germany	hans-joerg.iseimer@hzg.de	IBS, SSC
Käyhkö	Jukka	University of Turku	Finland	jukkay@utu.fi	LA Ch3c i
Keevallik	Sirje	Marine Systems Institute at TUT	Estonia	sirje.keevallik@gmail.com	SSC
Krug	Joachim	Federal Research Institute for Rural Areas, Forestry and Fisheries	Germany	joachim.krug@vti.bund.de	Ch5c
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Simpson	David	Chalmers University of Technology	Sweden	david.simpson@chalmers.se	LA Ch3a ii
Smith	Benjamin	Lund University	Sweden	ben.smith.lu@gmail.com	SSC
Viitasalo	Markku	Finnish Environment Institute SYKE	Finland	markku.viitasalo@ymparisto.fi	LA Ch5b
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Vuorinen	Ilppo	University of Turku	Finland	ilppo.vuorinen@utu.fi	SSC
Wibig	Joanna	University of Lodz	Poland	zameteo@uni.lodz.pl	LA Ch4a
Wramneby	Anna	LUCCI Secretariat	Sweden	Anna.Wramneby@nateko.lu.se	LA Ch6c
 Non-attendant LAs					
Bhend	Jonas	CSIRO, Melbourne	Switzerland/ Australia	jonas.bhend@csiro.au	LA Ch6a
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