BACC II chapter structure and *Lead Authors*
As of 29 March 2011, BACC II Lead Author Team Meeting Hamburg

Page numbers are meant as approximate reference points (book pages incl. figures*)

1. Overall assessment and summary (25 pp)
Hans von Storch, Helmholtz-Zentrum Geesthacht, Germany
Anders Omstedt, University of Gothenburg, Sweden

2. Past climate variability

2.1. **Introduction and summary (5pp)**

2.2. **Holocene (10.000 yr) (25pp)**
Irina Borsenkova, State Hydrological Institute, St. Petersburg, Russia

2.3. **Historical time frame (1000 yr) (25pp)**
Tadeusz Niedzwiedz, Silesian University, Sosnowiec, Poland

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

3.1. **Introduction and summary (5pp)**

3.2. **Atmosphere**

3.2.1. ***Atmospheric physics*** **(15pp)**
Anna Rutgersson, Uppsala University, Sweden

3.3. **Land**

3.3.1. ***Hydrology*** **(15pp)**
Jukka Käyhkö, University of Turku, Finland

3.3.2. ***Terrestrial cryosphere*** **(15pp)**
Sirpa Rasmus, University of Helsinki and University of Jyväskylä, Finland

3.4. **Baltic Sea**

3.4.1. ***Marine circulation and stratification*** **(15pp)**
Jüri Elken, Tallinn University of Technology, Estonia

3.4.2. ***Sea ice*** **(15pp)**
Jari Haapala, Finnish Meteorological Institute, Helsinki, Finland

3.4.3. ***Sea level and wind waves*** **(15pp)**
Birgit Hünicke, Helmholtz-Zentrum Geesthacht, Germany

4. Modelling future climate change

4.1. **Introduction and summary (5pp)**

4.2. **Skill of methods for describing regional climate futures (25pp)**
Joanna Wibig, Lodz University, Poland

4.3. **Projections of future climate change**
Ole Bøssing Christensen, Danish Meteorological Institute, Copenhagen, Denmark

4.3.1. ***Atmospheric changes (T, P, Wind, DTR, extremes)*** **(20pp)**

4.3.2. ***Hydrological changes incl. terrestrial cryosphere*** **(15pp)**

4.3.3. ***Sea level*** **(10pp)**

4.3.4. ***Marine physical changes (incl. sea ice, storm surges and waves)*** **(20pp)**

5. Impacts (in competition with non-climatic drivers)

5.1. **Introduction and summary (5pp)**

5.2. **Impact on the environment**

5.2.1. ***Atmospheric chemistry*** **(15pp)**
David Simpson, Chalmers University of Technology, Göteborg, Sweden

5.2.2. ***Terrestrial ecosystems*** **(15pp)**
Pekka Niemelä, University of Turku, Finland

5.2.3. ***Freshwater biogeochemistry*** **(15pp)**
Christoph Humborg, Baltic Nest Institute, Stockholm, Sweden

5.2.4. ***Marine biogeochemistry*** **(15pp)**
Bernd Schneider, Baltic Sea Research Institute, Warnemünde, Germany

5.2.5. ***Marine ecosystems*** **(15pp)**
Markku Viitasalo, Finnish Environment Institute, Helsinki, Finland

5.3. **Socio-economic impacts**

5.3.1. **Agriculture and forestry (25pp)**
Michael Köhl, University of Hamburg, Germany

5.3.2. **Urban complexes (25pp)**
Sonia Deppisch, HafenCity University, Hamburg, Germany

5.3.3. **Coastal erosion and coastline changes (25pp)**
NN

5.3.4. **Fisheries and aquaculture (25pp)**
NN

6. Attributing causes of regional climate change

6.1. **Introduction and summary (5pp)**

6.2. **Global warming (25pp)**
Jonas Bhend, ETH Zürich, Switzerland; currently CSIRO, Melbourne, Australia

6.3. **Aerosols (natural and pollutants) (25pp)**
Hans-Christen Hansson, Stockholm University

6.4. **Land cover and resource management (25pp)**
Anna Wramneby, Lund University, Sweden

Annexes

A1 Empirical evidence for consensus and dissent among regional climate researchers
Dennis Bray

A2 The concept of detection and attribution
NN

A3 The physiographic structure of the Baltic Sea drainage basin
NN

* Using Chapter 3 of the BACC book, a factor of 1,3 was estimated to convert from book pages incl. figures (as given above) to Word manuscript pages without figures; approx. 400 words per page (Times New Roman 12pt, 1,5 line pitch).

5 book pages incl. figures = 7 Word pages without figures
15 book pages incl. figures = 23 Word pages without figures
25 book pages incl. figures = 33 Word pages without figures

Remark: A book page contains approx. twice as many words as a manuscript page.