

Ole Bossing Christensen - Chapter 4b

Co-authors:

Erik Kjellström, SMHI: Global and regional model results
Eduardo Zorita, HZG: Statistical downscaling
Markus Meier, SMHI: Oceanography
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Hydrology

Outline:

Introductory section (OBC et al.):

What this is about and is not about; description of boundaries with the other chapters. Overview of changes since BACC-1.

Numerical climate model results on the Baltic Basin (OBC+EK):

This would be the main section, describing publications and results from GCM and RCM modeling. The main emphasis will probably be the ENSEMBLES project with resulting publications, and possible new high-resolution results from CORDEX. T, precip, snow cover, runoff, DTR, wind and may be also variability changes could be shown in figures, in particular the model spread of the projected climate change. Extremes of precipitation and wind should also be included.

Statistical downscaling... (EZ)

Projected changes of the Baltic Sea (MM):
New results from coupled models and ocean modeling.

Sea level rise (AG):

There is a discussion to cover here about newer and higher expectations to future sea level rise.

Hydrological effects of projected physical climate change for the Baltic. (TS)

Conclusion

Open questions:

- N and P balance?
- number of pages expected?
- work with Ch. 4.1, clarify what goes where.