



## Sea level rise projection for Northern Europe

Aslak Grinsted (1), Svetlana Jevrejeva (2), and Riccardo Riva (3)

(1) University of Copenhagen, Niels Bohr Institute, Centre for Ice and Climate, Copenhagen Ø, Denmark (ag@glaciology.net), (2) National Oceanographic Centre, Liverpool, UK, (3) Dept. Geoscience and Remote Sensing, Delft University of Technology, Delft, The Netherlands

We assess recent projections of the contributions to Northern European sea level rise with a special focus on the Baltic region and the British Isles for the high-end RCP8.5 scenario. Local sea level rise is partly compensated by vertical land movement from glacial isostatic adjustment. The individual contributions and their spatial fingerprints are summarized in uncertainty distributions of Northern European relative sea level rise which can be used for local adaptation planning. Considerable uncertainties remain in both the sea level budget, and in the regional expression of sea level rise. The primary sources of uncertainty are assessed to be Antarctic ice loss, Steric expansion, and dynamic sea level.