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Effects of extreme global warming in northern Europe

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Extensive flooding occurred in parts of Copenhagen after the city's heaviest recorded rainstorm on 2nd July 2011.

Photo: Rainer R. Lippold

SPECIALS of Climate Research (CR) present important new information on climate phenomena measured and assessed by closely coordinated group efforts. They concentrate on specific research themes or geographic areas.

CR SPECIAL 30 outlines a concerted effort by climate and social science specialists, as well as practitioners and stakeholders, to address the implications of extreme global warming, i.e. $\geq 6^{\circ}\text{C}$. The Special comprises seven studies centred around Denmark and northern Europe which were carried out within the framework provided by the Centre for Regional Change in the Earth System (CRES). CRES has developed a broad set of tools

related to climate adaptation; this includes economic, integrated assessment and impact models; improved regional climate and hydrological models; and decision support tools and spatial planning frameworks. These tools have been applied to provide up-to-date information on the regional effects (on hydrology, nutrient dynamics, ecosystem responses and economic risks, for example) of a changing climate at the upper limit of current climate scenarios.

We are pleased to make the online version of this CR SPECIAL available with Open Access.

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