



The Danish Climate Atlas: co-creation of climate information between met office and users

Kristine S. Madsen, Peter L. Langen, Alan Sørensen, Ole B. Christensen, and Peter Thejll
Danish Meteorological Institute, Research and development, Copenhagen OE, Denmark (kma@dmi.dk)

Climate change is a major concern for Danish municipalities, who are central in the adaptation effort in Denmark. To advise the municipalities, the Danish Meteorological Institute is launching a Danish Climate Atlas, with information on key climate change factors at local level. In the development of the Atlas, it has been key to let scientific investigations and user interaction go hand in hand. User interaction has focused on user meetings at three levels: municipalities, national governmental authorities, and technical consultants. The planning phase has also included study trips to neighboring countries and ECMWF, to learn about their experiences with similar platforms. This has led to a design of the Danish Climate Atlas, where information on changes in temperature, average and extreme precipitation, sea level and storm surge will be made available for individual municipalities, main drainage basins, and all coastal stretches, and has put a large focus on how users and other stakeholders can combine the Atlas information with other data sources for impact assessment. Uncertainties has been identified as a key factor to communicate, and users have been engaged to define how this can best be done. It has also been key to make clear what is not included, to avoid misunderstandings and disappointments at launch. Here, a big focus has been on changes in ground water, which is left for future studies. The Danish Climate Atlas will be launched in September 2019, and this presentation will present the development process, with focus on user interaction, and give the first peeks into the new possibilities with the Atlas.