



Sensitivity and uncertainty in regional Arctic climate futures scenario experiments

Ralf Döscher, Peter Berg, Shiyu Wang, and Torben Koenigk

SMHI, Norrköping, Sweden (ralf.doescher@smhi.se)

First regional coupled Arctic climate simulations have been performed as dynamical downscaling of both ERA-reanalysis and global climate change scenarios. The model tool is an upgraded version of the Rossby Centre coupled ocean-sea ice-atmosphere model RCAO. The poster explores uncertainty of sea ice coverage as well as oceanic and atmospheric conditions against model parameterizations for sea ice and atmosphere-sea ice fluxes.