



Towards fully coupled global Antarktis ice sheet/shelves-climate simulations

C. Rodehacke (1,2), T. Semmler (1), D. Barbi (1), T. Kleiner (1), J. Sutter (1), Q Wang (1), G Ozgur (1), T. Jung (1), and G. Lohmann (1)

(1) Alfred-Wegener-Institut für Polar- und Meeresforschung, Climate Sciences/Paleoclimate Dynamics, Bremerhaven, Germany (cr@dmi.dk), (2) Danish Meteorological Institute Denmark, Arctic and Climate, Copenhagen

One of the major uncertainties in future sea level projections is the contribution of the Antarctic continent. In the framework of the ZUWEISS project, the planned steps towards a fully coupled climate model system that includes the two way interaction between the atmosphere and ocean on one side and an ice sheet model is presented. The ZUWEISS' project aim is to uncover the reaction differences of the Antarctic continent to different global warming scenarios.