



Investigating decadal mass balance of the Greenland ice sheet using the regional atmospheric model REMO

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The hydrological cycle over polar regions is quite important for understanding the global climatic change and variability and the related deviations of the mean sea level. The mean spatial patterns of the components of the hydrological cycle such as precipitation, surface melt etc. are determined over Greenland using the regional climate model REMO and the Multiple Path Distributed Flow Scheme (MPDF) routing algorithm for ice flow developed for climate studies. Subsequently, the decadal (1986-1995) of the model simulations variability is presented.