



Changes in the annual cycle of temperature in a climate prediction for the Iceland region

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Results for the Iceland region from regional downscaling by the HIRHAM model are presented. The simulations are made for a limited area between Greenland and Eastern Scandinavia and they are forced at the boundaries by global simulations from the Hadley GCM. The simulations indicate a mean warming of 2-3°C during the 21st century. However, there are large differences in the warming of the different seasons. There is relatively little warming during mid-winter and mid-summer, while late winter, spring and the autumn receive more warming than the annual average. The lack of warming during mid-winter is attributed to a slow-down in advection of warm air from southerly latitudes by extratropical cyclones, while the other characteristics of this climate prediction remain unexplained.