Geophysical Research Abstracts, Vol. 8, 09966, 2006 SRef-ID: 1607-7962/gra/EGU06-A-09966 © European Geosciences Union 2006



## Precipitation climatology derived from numerical simulations

Ó. Rögnvaldsson (1) and H. Ólafsson (2)

(1) University of Bergen, Norway and Institute for Meteorological Research, Iceland, (2) University of Iceland, Icelandic Meteorological Office and Institute for Meteorological Research, Iceland

New maps of 30 years of precipitation climatology of Iceland are presented. These maps are based only on high-resolution numerical simulations with the MM5 modeling system, forced by boundaries from the ECMWF. As in previous tests for shorter periods, the simulated precipitation agrees well with observations when observational errors are taken into account. The precipitation maps have already been applied successfully for hydrological purposes. This method of mapping precipitation by numerical simulations may prove to be useful for investigating the precipitation climatology of polar regions, where observations are sparse and unreliable because of errors associated with measurements of solid precipitation.