



## **Mapping precipitation in a windy and snowy climate by precipitation corrections based on snow observations**

H. Ólafsson and R. F. Friðriksson

University of Iceland, Icelandic Meteorological Office and Institute for Meteorological Research

Conventional precipitation observations are corrected using conventional estimation of wetting, evaporation and wind-loss of liquid precipitation. Snow observations on the ground are used for correcting precipitation that falls in the form of snow. The corrected precipitation is calculated for a number of locations in Iceland and the results are compared to non-corrected precipitation observations. Not unexpectedly, there are large differences in parts of Iceland where a substantial part of the precipitation is snow and winds are strong. The corrected precipitation corresponds much better with numerical simulations of the precipitation climate than non-corrected precipitation.