

Haraldur Ólafsson¹ og Ólafur Rögnvaldsson²

- 3) University of Iceland, Icelandic Meteorological Office and Institute for Meteorological Research
- 4) University of Bergen, University of Iceland and Institute for Meteorological Research

Forms and application of the M-curve of orographic precipitation

The M-curve has been developed to give the connection between the orographic precipitation gradient and the speed of the low level winds blowing perpendicular to the mountain. The curve is developed and calibrated with data from the Reykjanes peninsula. The M-curve is applied to create a 50 year time series of precipitation in the mountains, giving result that compares well with groundwater observations.