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Strong precipitation gradients and the associated atmospheric flow in the mesoscale mountain range experiment SKUR

H. Ólafsson (1,2,3), Þ. Arason (3), S. Brynjólfsson (1,3) and H. Ágústsson (1,4)

(1) University of Iceland, (2) Bergen School of Meteorology, Geophysical Institute, University of Bergen, Norway, (3) Icelandic Meteorological Office, (4) Institute for Meteorological Research, Iceland

During the summer and autumn of 2007, precipitation was observed by 40 automatic raingauges in the mesoscale mountain range of Reykjanes, SW-Iceland (SKUR). During this period, cases of excessive lee-side drying and very strong orographic enhancement were observed. These cases are explored and related to features of the atmospheric flow.