



Avalanches in Scandinavia in a future climate

R. Kravik (1), H. Ólafsson (1,2) and A. Sorteberg (3)

(1) Bergen School of Meteorology, Geophysical Institute, University of Bergen, Norway, (2) University of Iceland and Icelandic Meteorological Office, (3) The Bjerknes Centre for Climate Research, Bergen, Norway

An index based on synoptic scale meteorological parameters is developed to link weather and avalanche frequency, using numerical simulations and avalanche observations in W-Norway. The index is used to estimate probable development of avalanche frequency in a scenario for future climate. The scenario indicates that at low elevations there will be a reduction in avalanche frequency, while at higher elevations there will either be a small change or a moderate increase in avalanche frequency.