



Simulations of extreme precipitation events in Iceland

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Cases with two observed precipitation extremes (293 mm/24hrs and 249 mm/24 hrs) in Iceland are simulated at 3 km horizontal resolution. The simulations correspond reasonably well with observations. They both show very large topographic precipitation gradients and strong and persistent low level winds interacting with the mountains. The simulations indicate that the precipitation pattern, including both these extremes could be predicted by real-time high-resolution simulations. Sensitivity to parameterisation of precipitation schemes will be explored and presented.