



Findings of the Öræfajökull precipitation experiment - ÖREX

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We present the main findings of ÖREX, the Öræfajökull precipitation experiment. In July 2010, 27 automatic rain gauges (HOBOs), were placed near Hnappavellir in the south of the glacier covered Mt. Öræfajökull, Iceland's highest mountain of 2111 m. The rain gauges were placed in a grid with an average spacing of 1 km, running from the coast to an altitude of 1100 m, at the maximum glacial extent on the mountain, over a distance of about 10 km. The gauges were operational during the summer and autumn of 2010 and recorded numerous large orographic precipitation events. The gauges were successfully retrieved again in the summer of 2011, except for a few which had been attacked by the notorious killer sheep of Öræfi. The high spatio-temporal observational data is analyzed and compared to atmospheric analysis and other available observations of weather. Chosen events of interest are furthermore compared to results of high-resolution atmospheric simulations.