

## ノルウェー北極域における長期流星レーダー観測 Long term meteor radar observations in Arctic Norway

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Two meteor radars have been operated in Arctic Norway under collaboration between National Institute of Polar Research, Japan and University of Tromsø, Norway, for more than 10 years, one at Adventdalen, Spitzbergen (78N,16E) since 2001 and the other at Ramfjordmoen (70N,19E) since 2003 [e.g., Hall et al., 2006]. Based on the continuous data set various atmospheric phenomena in the northern high latitude mesopause region have been studied so far such as links with a stratospheric sudden warming [Kurihara et al, 2010], gravity wave activities [Tsumumi and Hall, ISAR3, 2012], and long-term changes in mesopause dynamics [Hall and Tsumumi, 2013]. These results are to be overviewed and further collaboration with other radio and optical observation techniques will be discussed.