



## **Ionospheric Scintillation in the Northern Polar Region**

**B.D. Zapfe, C.N. Mitchell**

Center for Space, Atmospheric and Oceanic Sciences, University of Bath, Bath BA2 7AY, UK,  
B.D.Zapfe@bath.ac.uk and C.N.Mitchell@bath.ac.uk

In this poster, the results of a study into ionospheric scintillation are presented. Scintillation monitored in Tromso, Norway, in Northern Scandinavia is presented for the year 2005. Radio signals of the Global Positioning System (GPS) were recorded at a frequency of 50 Hz. Fading as well as Total Electron Content (TEC) are compared for geomagnetically quiet and active days. Additionally, the dependence of the two indices quantifying the magnitude of scintillation, S4 for amplitude scintillation and phase sigma for phase scintillation, are exemplified for several days.