HiTIES
A High Throughput Imaging Echelle Spectrograph

Location parameters:
The optical hut built during summer 2001 by the Tromsø Geophysical Observatory is at Ramfjordmoen, near Tromsø, Norway.
Geographic coordinates: 69.58° N, 19.21° E
Geomagnetic coordinates: 66.4° N, 103.4° E
Dip magnetic angle: 77°

Optical Hut near Tromsø, Norway
(photo credit: Chris Hall)

Optical Hut near Tromsø, Norway
(photo credit: Bjørnar Hansen)
Perfect location for proton aurora study:

For moderate activity (Kp=2-3), located at the equator edge of the afternoon-evening auroral oval where protons are expected to be a significant energy source (e.g., Galand et al., J. Geophys. Res., 106, 127-139, 2001 and references therein)

On the same site than the EISCAT incoherent scatter radars which will allow for coordinated experiments between the optical instruments and UHF radar probing the ionosphere

Optical hut wuth VHF white array (center) and UHF radar (far right) (photo credit: Bjørnar Hansen)

Current Tromso Weather