

PEM036-P05

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Report of the STEL optical observation at the northern Scandinavia by March 2010

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<http://www.stelab.nagoya-u.ac.jp/~eiscat/data/EISCAT.html>



EISCAT Database

Solar-Terrestrial Environment Laboratory, Nagoya University, Japan.

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What's New

- ▶ 2009/09/01 [DATA] Archive of the EISCAT data during the DELTA-2 campaign
- ▶ 2008/10/30 [DATA] Catalog of observations at Tromsø is ready for use. You can check weather, aurora activity, etc. there.
- ▶ 2008/05/05 [DATA] Better Images data at Tromsø are ready for use.

Solar-Terrestrial Environment Laboratory (STEL) has operated various kinds of the optical instrument for more than 10 years at the Tromsø EISCAT (European Incoherent Scatter) radar site (Norway; 69.6°N, 19.2°E), where is one of the state-of-art observatories for the polar upper atmospheric study. Five instruments are now in automatic operation regularly from October to March: (1) four-wavelength photometer (427.8 nm, 630.0 nm, 557.7 nm, and 844.6 nm), which is fixed to look along the magnetic field line, (2) digital camera for monitoring the weather condition and the auroral morphology, (3) proton all-sky camera (486.1 nm), (4) multi-wavelength all-sky camera (557.7 nm, 630.0 nm, OH band, 589.3 nm, 572.5 nm, and 732.0 nm), and (5) Fabry-Perot interferometer (557.7 nm, 630.0 nm, and 732.0 nm). While these instruments are all programmatically operated, they have contributed to many campaign observations with the EISCAT radars, rockets, satellites, and other ground-based instruments. Everybody can access the quick looks made of data taken with these instruments at the web page of <http://www.stelab.nagoya-u.ac.jp/~eiscat/data/EISCAT.html>. This paper reports activity of the optical instruments concerning the data archive and notable events during some Japanese special programs of the EISCAT radar.

Keywords: Aurora, Airglow, Optical instrument, Ionosphere, Thermosphere, High latitude