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PEM27-P25

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Report of the STEL optical observation at the Tromsoe EISCAT radar site by March 2015

OYAMA, Shin-ichiro^{1*}; NOZAWA, Satonori¹; SHIOKAWA, Kazuo¹; OTSUKA, Yuichi¹; TSUDA, Takuo²; TAKAHASHI, Toru¹; FUJII, Ryoichi¹

¹Solar-Terrestrial Environment Laboratory, ²Department of Information and Communication Engineering, University of Electro-Communications

Solar-Terrestrial Environment Laboratory (STEL) has been operating various kinds of optical instruments for more than 10 years at the Troms ϕ EISCAT (European Incoherent Scatter) radar site in Norway (69.6°N, 19.2°E), which is one of the state-of-art observatories at high latitudes. Five instruments are now in automatic operation regularly from October to March: (1) three-wavelength photometer (427.8 nm, 630.0 nm, and 557.7 nm), which is fixed to look along the magnetic field line, (2) digital camera for monitoring weather and aurora, (3) proton all-sky camera (486.1 nm), (4) multi-wavelength all-sky camera (557.7 nm, 630.0 nm, 630.0 nm, and 732.0 nm), and (5) Fabry-Perot interferometer (557.7 nm, 630.0 nm, and 732.0 nm). The quick looks are available on the web at www.stelab.nagoya-u.ac.jp/~eiscat/data/EISCAT.html. These instruments are programmatically operated, and they have contributed to many campaign observations with the EISCAT radars, rockets, satellites, and other ground-based instruments by adjusting the observation mode.

Keywords: aurora, air glow, optical instrument, ionosphere, thermosphere, polar region