

E112-024

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Study of the Magnetosphere-Ionosphere coupling process using optical instruments and the EISCAT radar at Tromsø

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In order to understand the Magnetosphere-Ionosphere coupling process more deeply, we analyzed simultaneous observational data sets obtained with the EISCAT UHF radar and optical instruments such as an all-sky proton imager, a four-wavelength photometer, an all-sky digital camera, an all-sky TV imager, a wide-view TV imager. All the instruments are located at the EISCAT Tromsø site. In this study we pay a special attention to the proton contribution to the ionospheric conductivity. We will report preliminary results out of 11 night datasets in 2006-2008.