Database of optical and radio wave observation network of the Tohoku University

Manabu Yagi1*, Takahiro Obara1, Masato Kagitani1, Mizuki Yoneya1, Atsushi Kumamoto1, Hiroaki Misawa1, Fuminori Tsuchiya1, Kazumasa Iwai1, Naoki Terada1, Takayuki Ono1, Hiroyo Ohya1

1PPARC, Tohoku Univ., 2National Astronomical Observatory, 3Chiba Univ.

Planetary Plasma and Atmospheric Research Center (PPARC) of the Tohoku University is now in progress to build a upper atmosphere, planetary, and space physics database under collaboration with the Inter-university Upper atmosphere Global Observation NETwork (IUGONET). The core data of the database are planetary and solar radio observation by Iitate Planetary Radio Telescope (IPRT) and Jupiter/galaxy decameter radio receiver working in Iitate observatory, that is one of the observatory of Tohoku University. Recently, development of database of LF/VLF wave observation at Athabasca, Ny-Alesund, and Asia VLF observation network (AVON) are undergoing under collaboration with Chiba University. In the presentation, we will introduce the observations of solar radio burst with high time resolution using the AMATERAS spectrometer of IPRT, as well as lightning and precipitation of high energy electrons into the atmosphere observed by LF/VLF wave. We will also introduce the optical observation of auroral image and geomagnetic data observed in Alaska.

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