

## Geomagnetic, optical, and radio observation network of the Tohoku University

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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. Development of database of LF/VLF wave observation at Athabasca, Ny-Alesund, and Asia VLF Observation Network (AVON) are undergoing collaborated 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.