

MGI015-P02

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## Development of metadata database for Upper Atmosphere

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The Inter-university Upper atmosphere Global Observation NETwork, IUGONET, is a six-year research project of the National Institute of Polar Research, Tohoku University, Nagoya University, Kyoto University, and Kyushu University to build a metadata database (MDB) of ground-based observations of the upper atmosphere. We have various kinds of observational data acquired so far by a global network of radars, magnetometers, optical sensors, helioscopes, etc., but these data are archived in individual databases at each site. By developing the MDB, which will give the location and other information about the observational data, we intend to provide researchers with a seamless data environment linking databases spread across the member institutions. This MDB will be of great help in conducting comprehensive analyses with various observational data to clarify the mechanisms of the long-term variations in the upper atmosphere. In this presentation, we will explain about our metadata database and analysis software.

Keywords: metadata, database, analysis software, upper atmosphere, ground-based observation