Inter-University Upper Atmosphere Global Observation Network (IUGONET)

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IUGONET is a joint project aiming at establishment of a data exchange system for the Earth’s upper atmosphere observations. The participating members are the National Institute of Polar Research (NIPR), Tohoku University, Nagoya University, Kyoto University, and Kyushu University. We have built a metadata database (MDB) of ground-based observations that have been continued by means of a global network of radars, magnetometers, optical sensors, helioscopes, and so on. MDB provides contacts and basic information about the observed 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, which may be affected by global warming, solar activities, etc. In particular, IUGONET will greatly contribute to CAWSES (Climate and Weather of the Sun-Earth System), which is an international collaborative program promoted by SCOSTEP.

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