MGI34-04   Room:301A   Time:May 19 11:45-12:00

Inter-university Upper atmosphere Global Observation NETwork (IUGONET) project

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The Inter-university Upper atmosphere Global Observation NETwork (IUGONET) project (2009-2014) is an inter-university program by the National Institute of Polar Research (NIPR), Tohoku University, Nagoya University, Kyoto University, and Kyushu University to build a database of metadata ("data of data" such as observation period, type of instrument, location of data, and so on) for ground-based observations of the upper atmosphere since the IGY in 1950s. The IUGONET metadata database (MDDB), which archives the information on a variety of observations by radars, magnetometers, optical sensors, helioscopes, etc. in different locations all over the world and in various altitude layers from the troposphere up to the heliosphere, will be of great help to researchers in efficiently ?nding and obtaining observational data they need. This should also facilitate synthetic analyses of multi-disciplinary data, leading to new types of research in the upper atmosphere. Since the official release of the MDDB in early 2012, the number of registered metadata has reached nearly 8 millions and still been counting up. We started registering metadata of the observational data from other institutes outside IUGONET. Our continuous effort is also made to have more IUGONET data supported by UDAS, which is the integrated data analysis platform developed by IUGONET. The achievements of the project with some scientific results are presented in the talk.

Keywords: metadata, IUGONET, data analysis tool, upper atmosphere