The IUGONET project and its international cooperation on development of metadata database for upper atmospheric study

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Research Meeting: 19-21 August, 2013 @NIPR (Tokyo)

Observatory

IUGONET includes three WDS members
- NIPR (Aurora)
- Kyoto Univ. (Geomagnetism)
- STEL (Cosmic Ray)

Number of Registered data
(as of 27 May 2013)

Mbit: 8,394,891
Except for Granule: 2578
(Observatory: 776, Instrument: 869, Dataset 943)

IUGONET MDDB: what’s inside?

We are preparing a dictionary which works with “Associative Search” developed by NII.

A quick look (QL) viewer of data referred in the MDDB is under development. The viewer with data can be deployed with a single click over the internet.

IUGONET adopted DSpace as the metadata database platform. DSpace is a free software widely used by digital repositories at many universities over the world. One of the major differences between Dublin Core used in the library systems and scientific metadata is the description of domain and period of observation.

The IUGONET project has been developing the infrastructures and common tools (metadata database (IUGONET-MDB) and data analysis software (UDAS)) to facilitate the distribution and wide use of the ground-based upper atmospheric data provided by the IUGONET universities/institutes.

IUGONET is continuously in discussion with the SPASE consortium, since the IUGONET common metadata format is based on the SPASE metadata model. IUGONET is currently discussing the possible international collaboration with the databases of the European project “Near earth space data infrastructure for e-sciences (ESPAS)” and the “Virtual Observatory (VO)” of the United States.

In Japan, in addition to the metadata provided by the IUGONET institutions/institutes, metadata from the National Astronomical Observatory of Japan (NAOJ), National Institute of Information and Communications Technology (NICT), and the Kakusa Magnetic Observatory of the Japan Meteorological Agency (JMA) have been registered.