Development and management of geoscientific information in the Geological Survey of Japan, AIST

Keiichi Sakaguchi[1]

[1] AIST

Present status of providing geoscience information from the Geological Survey of Japan (GSJ), AIST mainly via internet, and the plan of the new data management system in GSJ is reported.

1. Providing geoscience information from the GSJ

Presently GSJ is providing geoscience information via internet through the following two systems: RIO-DB(Research Information Database) of the AIST website and GSJ's own servers. Eighteen geoscience DBs are registered in the RIO-DB (e.g. Geological Literature DB, Seamless Geologic Map DS, Active Fault DB) and used widely. Two Web-GIS systems, Integrated Geologic Map DB and Geological Information Index, are working on GSJ's servers. GSJ has been developing Web-GIS systems since 2005FY.

2. Management plan of geoscience information

Although there are many geoscience DBs many of them are stand-alone and association among the DBs is insufficient presently. GSJ is aiming to organize DBs. Recognizing the necessity of organizing various information inside GSJ itself in order to provide systematic and useful geoscience data to the users (society), GSJ is planning a data management system named GEO-DB. GEO-DB will cover GSJ's whole information such as publications, library collection and satellite images, as well as on-line DBs and digital data archives. Importance of construction of GEO-DB is as follows:

To collect, maintain and provide geoscience information as public properties.

To give clear scientific basis for national and local governmental decision-making.

To share research data and research product among researchers for finding new research theme.

To secure traceability of the research result.

Also recognizing the importance of standardization of the data and data exchange formats in collaboration among institutes and countries, GSJ has been contributing to GeoSciML and other activities.