Design of Geoscience Information Metadata

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Abstract

There have been many attempts to use geoscience information so far. Among many efforts, information standardization is one of the core parts to facilitate geoscience information use. Among many standards, metadata plays an important role to facilitate information dissimilation and use. But until now organizations managing geoscience information did not have the metadata standard. In case of UK and other European countries, USA, Canada, Australia which are considered as advanced countries in the geoscience information area, they just adapted the geographic metadata (ISO9115). ISO9115 is not sufficient to cover all geoscience information.

KIGAM(Korea Institute of Geoscience and Mineral Resources) has been carrying out the project on geoscience information standardization and clearinghouse construction since last year. In this project, we tried to design geosience information metadata model from a different view and divided it into two major parts such as geographic information and bibliographic information based on the research outputs at the geological survey organizations. From this point of view, we designed metadata model considering Korean information environment.

Korea geoscience informatopn metadata (draft) was described as XSD.(eXtensible Markup Language, XML Schema Description). Metadata consists of six modules and bibliographic information and geographic information module are conditional. Korea geoscience metadata was designed to be compatible with Korea geographic information metadata (ISO ISO19115 standard modified) and bibliographic information metadata using Geological survey organizations

Korea geoscience informatopn metadata is expected to be used to construct geoscience information clearinghouse and to link global geoscience information.

Keyworlds : Metadata, Clearinghouse, GIS