Development of Dagik, a data showcase system for Geoscience in KML

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http://dagik.org

Dagik, a data showcase system for Geoscience in KML, has been developed by a community of scientists. The main server is operated by Kyoto University. It is a system to share data visualization files of various Geoscience field. The types of data in Dagik are observational data, simulation results, and empirical model outputs. Dagik is designed to be used to browse various types of data intuitively for the researchers who are not familiar with the field. The collaboration with databases and meta-data bases is crucial for the development. The format of the visualization files is KML (Keyhole markup language) that is used in Google Earth and other geobrowser softwares. KML is suitable to describe the Geoscience visualization data because metadata of the data, such as location and time of the data, is embedded in the KML files. The visualization files in KML are stored on various WWW servers, and dagik.org makes the list files of these Dagik KML files for users to access the files without specifying the WWW server of each data. In the presentation, the current status and the future plan of the development will be reviewed. Public outreach program using Dagik, which is called Dagik Earth, will also be introduced.