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The effort in DIAS toward sharing earth science data by metadata management

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Data Integration and Analysis System Program (DIAS-P) is building the data infrastructure by collecting and managing various global environment data and metadata like observation data and model data at home and abroad, for the purpose of interoperability data usage. To properly manage a variety of data, it is important to create and manage the metadata of the data. We are creating metadata for the data in DIAS at the dataset level in the format of ISO19115/19139. We are also collecting the data from related data centers and building the search system for searching the metadata from various fields and in various formats.

To smoothly share the metadata in DIAS and in order to implement the appropriate search for metadata in various formats, we are aiming at developing and operating a metadata mediation system, to centrally manage the metadata and make the metadata usable for the applications like the search system. To unify and align the metadata formats, we are using GI-cat which is a software for broker catalog services. Also, the metadata mediation system aim to manage the information associated with the metadata (metadata of metadata) including the mapping information between English and Japanese metadata. We are considering on the usage of GI-cat in our case including the possibility of the update of GI-cat itself, by discussing with the members of ESSI-Lab, who are the developers of GI-cat. We introduce our attempt on the format conversion of actual metadata from the collaborative institutes, and metadata sharing in DIAS using GI-cat. Furthermore, in this presentation, with the treatment of various metadata in DIAS, we also introduce our attempt on the creation of DOI (Digital Object Identifier) to the datasets in DIAS. We are discussing the mapping between the metadata created for DIAS datasets and the metadata required for DOI registration.

Keywords: DIAS-P, DIAS, earth observation data, metadata