

MGI016-P04

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Improvement of functionality of integration and analysis product distribution website

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DIAS (Data integration and Analysis System; <http://www.editoria.u-tokyo.ac.jp/dias/english/index.html>) is one of the activities of GEOSS, and also one of Japanese National Key Technology activities. JAMSTEC collaborates with the University of Tokyo, the main contractor of the project. It is a five-year project until March 2011.

We at JAMSTEC also make system development toward long-term sustainable service of data distribution as part of DIAS. Currently, we provide the following example data products at the website of <http://www.jamstec.go.jp/e/medid/dias/>.

Ocean & Fishery Resources

- Global Ocean Reanalysis Product based on a 4D-VAR data assimilation using observational data obtained from vessels, buoys, satellites, etc.

Eurasian Cold Region

- Glacier inventory using a digital elevation model (DEM) and satellite data
- Data set of land surface processes over Eurasia

Asian Monsoon

- Prototype data set for radar-raingauge combined precipitation in Asia
- Gridded precipitation data of the Asian region
- Monsoon Asian heat and water balance dataset
- Typhoon tracks during the early 20th century

Land Ecosystem

- Ecosystem-weather link map produced by using atmospheric data and satellite-derived vegetation index data

We update not only some data products, but also the information about applications of data products to different fields to provide the information about the characteristics of data products. Some prototype KMZ files enabling the visualization on Google Earth are also available to meet the needs of users. Results of the access log analysis indicate that these updates effectively increase access to the related contents.

Additionally, we develop an online mapping and plotting service with a map server, and a file download service with a function to extract digital data by selected attribute. These services are expected to be useful for visualizing and analyzing the data products.

In this session, we introduce these data visualization and download services and discuss about user-friendly data distribution services for users in different fields.

Keywords: DIAS, data distribution, access log analysis