

Toward the One Stop Data Shop in JAMSTEC 2 (Achievement and Future Plan of the Integrated Database)

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1. Background

Data Research Center for Marine-Earth Sciences(DrC) in the Japan Agency for Marine Earth Science and Technology(JAMSTEC) has developed an integrated database "Data Research System for Whole Cruise Information(DARWIN)" for data from JAMSTEC's research cruises and dives. Authors reported it in Ichiyama et al.(U01-P01, JpGU Meeting 2012). DrC transferred data from the old data site to DARWIN and opened it to public (<http://www.godac.jamstec.go.jp/darwin/e/>) October 2012. DrC, a data center in JAMSTEC, collects, manages and disseminates various kinds of data from cruises and dives. DARWIN is designed to provide a comprehensive search, check and download service (One Stop Data Shop). In this presentation authors will show the functions of DARWIN and current situation and future plan of our "One Stop Data Shop" realized by DARWIN.

2. Achievement

Although the former "Data Site for Research Cruises" was an aggregate of html pages which are arranged to cruise number, DARWIN uses a relational database management system and enables users to;

- search for cruises, dives, data and samples by various kinds of metadata rather than cruise number,
- narrow down cruises, dives, data and samples by selecting keywords in a hierarchical metadata tree (Data Tree),
- collect and download selected data file(s) in a "basket" and
- access to the related databases(rock, sediment core, biological sample, documents and images) with automatically generated links. Especially the Data Tree is a comprehensive search tool which enables even not-professional users to find cruises, dives or data easily by selecting hierarchically not only name of research vessels, submersibles or year of observation, but also month of observation, dive depth, science keyword(data type) or type of sample.

By these new functions users are able to search for data from cruises or dives via various kinds of search path in DARWIN, check, store and download it, and also access to the information of samples, documents and images. DrC encourages user registration and provides exclusive services to log-in users such as downloading more than one data file by one click, keeping user's own basket and showing download history, etc.

3. Future Plans

DrC is going to improve the functions of DARWIN simpler and more usable by analyzing access records and figuring out the tendency and needs of users.

In the next step DARWIN will enable to create a dataset and visualize it by integrating or extracting data from original data files.

DrC is also providing a data search service on a map "Data Search Portal (http://www.godac.jamstec.go.jp/dataportal/index_eng.html)", and a metadata search service for databases and data sites "Data Catalog (http://www.godac.jamstec.go.jp/catalog/data_catalog/index_en.htm)". DrC is going to discuss the integration of these search services and DARWIN to develop the next One Stop Data Shop as a whole information service in DrC.

Keywords: One Stop Data Shop, Integrated Database, Oceanographic Observation Data, Data Management

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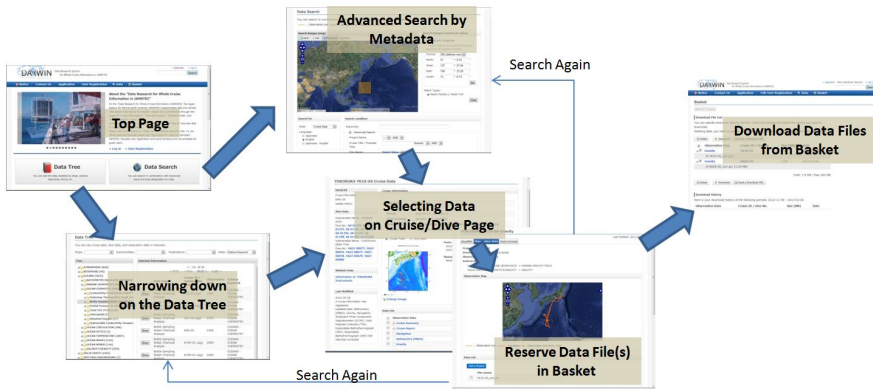


Figure : Data Search and Download in DARWIN