

Integrated database of oceanographic observation cruise -Toward the "One-Stop Data Shop" in JAMSTEC-

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JAMSTEC has performed many research cruises using its research vessels and submersibles for about 30 years, and the abundant data and samples obtained from these observations and researches have been opened on JAMSTEC's web sites. DrC (Data Research Center for Marine-Earth Sciences) in JAMSTEC manages data in diverse data fields such as oceanography, meteorology, geophysics and biology, and in various data forms (e.g. numerical value, image, movie, figure, document and sample). These data are opened in the respective data sites corresponding to their fields and forms. In case researchers were going to analyze related interdisciplinary data, they might have to search and collect data from many data sites. In order to overcome this barrier, DrC has provided some data research services; "JAMSTEC Data Search Portal¹" in which users can search data in the area identified on a map, and "JAMSTEC Data Catalog²" in which users can search data sites from a category tree system composed of science keywords. Currently, DrC is constructing a new data dissemination system to support efficiently searching, visualizing and providing the data toward the "One-Stop Data Shop" that enables users to handle data comprehensively. In this presentation, we report the outline of this on-going project.

The data obtained from JAMSTEC's research cruises and managed by DrC is opened in "JAMSTEC Data Site for Research Cruises³", which consists of an aggregate of html pages. We are now developing a database (named as Data Research System for Whole Cruise Information in JAMSTEC (DARWIN)) for data and sample information from research cruises and dives. This enables users to search the data by various terms of metadata, and to overview the cruises, dives and data arranged in order of categories such as name of research vessels or submersibles, data types, research period, etc. Also users are able to keep data files in the data basket and download them at a time, to visualize data contents on demand, to search data on a map and to extract data within an area of interest. Automatic linking to the other databases in JAMSTEC helps users to access easily to the related data from this database. DrC expects this system to be a possible basis of the "One-Stop Data Shop" of the data in JAMSTEC.

1: <http://www.godac.jamstec.go.jp/dataportal/>

2: http://www.godac.jamstec.go.jp/catalog/data_catalog/

3: <http://www.godac.jamstec.go.jp/cruisedata/j/>

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