

New Marine Sediment Core Database "COEDO"

NAKANO, Yukihiko^{1*}; ICHIYAMA, Yuji¹; HORIKAWA, Hiroki¹; TOMIYAMA, Takayuki¹; SATO, Yusuke²; KANESHI, Toko²; OGIDO, Eriko²; TAKAESU, Yuki²; NAGAYAMA, Anri²; OSHIRO, Satoshi²

¹Japan Agency for Marine-Earth Science and Technology, ²Marine Works Japan Ltd.

Japan Agency for Marine-Earth Science and Technology (JAMSTEC) established basic policies on the handling of data and samples (http://www.jamstec.go.jp/e/database/data_policy.html). On the basis of the policies, JAMSTEC provides data and samples in an easily accessible manner. Data and sample information of geological sediment core has been published at "JAMSTEC Core Data Site" since 2008. In order to improve quality and usability, we reconstructed and released new database in January 2014.

Details of the new database are shown below:

<Name>

COre Electronic Database of Ocean floor (COEDO)

<URL>

<http://www.godac.jamstec.go.jp/coedo/e/>

<Search Method>

Multiple-filter search using interactive map and basic information filters (Cruise ID, date, location etc.)

In the previous version of the database, users have to take longer steps to reach sample information, because only one of two methods (map search for general users and Cruise ID list menu for science parties) were available. In COEDO, all users can search samples by multiple filters in a single step on a single window.

<On-line accessible data>

Basic information of sediment core (Cruise ID, date of collect, chief scientist, ship name, position, depth), core photo, scanned image, visual core description, X-ray photo, X-ray scanned image, physical property data, literature, link for geochemical data.

We are planning further updates to improve the usability, as follows:

1. Acquiring information of sedimentary ages of core, and making them easily accessible on the database as numerically searchable information.
2. Integration with sample inventory information of JAMSTEC core sample collection, which is currently available at the Kochi Institute for Core Sample Research.
3. Publishing other data, which have not been incorporated into the database yet.

We aim not only improving services to current users, but also making effort to propagate the user community. JpGU and Yokohama city government have a special geological training course for junior/senior high school students at Keio University High School in Yokohama city on April 13. JAMSTEC cooperates with the training course, and provides lecture and practices using actual database and real core samples. In the training course, trainers give lectures on how to obtain marine sediment core onboard and how to study core sample data in COEDO, then trainees observe the actual core samples for which they have just pick up the associated data on the database. The course stimulates trainees' interest and curiosity on the geological study, and we can nurture the new generation. As a result of this cooperation, we can hopefully increase educational users of JAMSTEC core samples.

Keywords: JAMSTEC, marine sediment core, database, ocean floor, piston corer, geology