

GANSEKI: Sample and data resource for ocean geosciences

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Deep seafloor rock sample database

JAMSTEC provides data and samples obtained by its research cruises for further public uses with research/educational purposes. GANSEKI is one of 'NUUNKUI' websites for JAMSTEC data dissemination [1,2]. Using GANSEKI, online users can search and download ~21,000 entries of metadata of rock samples obtained by submersible dives or dredging mainly operated in the Pacific Ocean, and ~20,500 entries of geochemical data collected from literature and individual researchers. Out of ~9,800 entries of JAMSTEC rock sample collection, samples are classified as; 55% volcanic, 12% plutonic, 2.4% hypabyssal, 5.1% metamorphic, 21% sedimentary (including 3.2% Mn-oxides), and 3.5% ore. Actual rock samples are available for offline requesters for free of charge, except for sampling/shipping costs which are liable to requesters.

Prominent volume of associated information

Research activities of most JAMSTEC cruises are well-documented and their data are routinely preserved for long-term storage. Individual sample information in GANSEKI includes direct references to associated datasites. As for research/educational uses of rock/ore samples, cruise reports and geophysical data such as bathymetry, gravity and geomagnetism available at DARWIN datasite, video/photo data of submersible dives archived at J-EDI datasite, are especially important for understanding research backgrounds, geological settings and field occurrences of individual samples (URLs are listed in [2]). Present users can still access those information obtained by old cruises down to '80s, and request actual samples for widespread surveys of oceanic crustal materials or ore deposits, applications of contemporary analytical techniques to preexisting samples described in literature, multi-disciplinary studies involving neighboring research fields, or so on.

- [1] JAMSTEC (2016) *Deep seafloor rock sample database* (GANSEKI). <http://www.godac.jamstec.go.jp/ganseki/>. [2] JAMSTEC (2016) *GODAC data site - NUUNKUI*. www.godac.jamstec.go.jp/jmedia/portal/.