

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-02132, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-02132
EGU General Assembly 2008
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Scientific earth drilling information service, SEDIS

M. Diepenbroek (1), R. Huber (1), U. Schindler (1), **H.-J. Wallrabe-Adams**(1), J. Collier (2) and H. Grobe (3)

(1) MARUM - Center for Marine Environmental Sciences, Univ. of Bremen, Germany, (2) IODP-MI, Sapporo, Japan, (3) Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany (hwallrabe@pangaea.de / Phone: +49 (0)421 218-65592)

Since the beginning of the IODP program a great effort has been done to implement an information system benefitting all involved partners in IODP (USIO, CDEX; ECORD).

The Integrated Ocean Drilling Program (IODP) is developing a web based information service (Scientific Earth Drilling Information Service, SEDIS) - to facilitate access to all data and information related to scientific ocean drilling, regardless of origin or location of data. SEDIS will be designed to integrate distributed scientific drilling data via metadata.

The three main data contributors to SEDIS currently are the IODP implementing organizations (IOs) from the United States (USIO), Japan (CDEX) and Europe with Canada (ESO). Each IO uses its own drilling platform and data management system. Currently SEDIS integrates the data search of the IO databases by harvesting distributed metadata without the necessity to centralize the data storage. SEDIS will be expanded at a later stage to include other scientific drilling data from continental or lake drilling. SEDIS will also include a publication search engine and advanced data search, visualization and mapping tools.

SEDIS will be developed in three phases:

Phase I [finished]: Metadata portal for data discovery and harvesting. Metadata will be provided by the IOs (<http://sedis.iodp.com>)

Phase II [in progress]: Search database for publications, reports, minutes, citations and possibly post expedition research

Phase III: Advanced data search, visualization and mapping tools

The uses international standards for metadata and data exchange and transfer and uses open source components.