Data Management Services

**ORGANISATION**

As an outstanding research institute of ocean research, GEOMAR is obliged to fulfill the recommendations of the Helmholtz Association and funding agencies to make the obtained data sustainably available for the scientific community. The GEOMAR Data Management Team supports researchers during the entire lifecycle of data description, data exchange, data storage and data archiving. One of the essential data management experiences is the need for on-site personal contact and training of researchers during the entire data lifecycle.

**DATA MANAGEMENT SERVICES**

The Data Management portal is the starting point for all provided data services within KDMI (portal.geomar.de). Projects and working groups maintain their public and internal webpages where collaboration tools like wiki, blog, calendar and document exchange are used. User administration for all data services is realised via the portal software (Liferay) and allows guarded access to data services for internal and external users. A data curation process has been implemented as service to realize monitoring and adherence to data policy’s time schedules (see graphic). It allows setup and surveillance of deliverables based on expected or collected research data.

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**Visualisation of expeditions via KDMI Geo-Search:** Search cruise tracks, publications, sampling locations, glider tracks, sample descriptions and detailed cruise information as georeferenced information in GoogleEarth. KML files contain network links in order to retrieve and display information on-the-fly.

**Version control systems (Subversion and Git):** Used for code development, documentation, data analysis and exchange. The TRAC Wiki and ticket system linked to Subversion and Git in the near future is used for documentation, improved collaboration and dissemination.

**Media Database (ProxSys):** Allows to store, describe and search images and videos e.g. acquired during research dives of remotely operated and autonomous underwater vehicles.

**Ocean Rep:** An institutional repository for full text print publications is maintained by the GEOMAR library and also used for specific publication lists, e.g. projects, numerical models or platforms (oceanrep.geomar.de). It is linked to OSIS allowing linkage between authors, their data and publications. An automated data link routine adds icons when additional external data are available.

**Data Publication in World Data Centres (e.g. PANGAEA):**

The data management team assists as data curators when data are to be published in WDCs in order to warrant long-term archival and access to the data with persistent identifiers. This cooperation will make the data globally searchable while links to the data producers will ensure citability and provide contacts for the scientific community (www.pangaea.de).

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