

DATA MANAGEMENT SERVICES



future ocean
KIEL MARINE SCIENCES

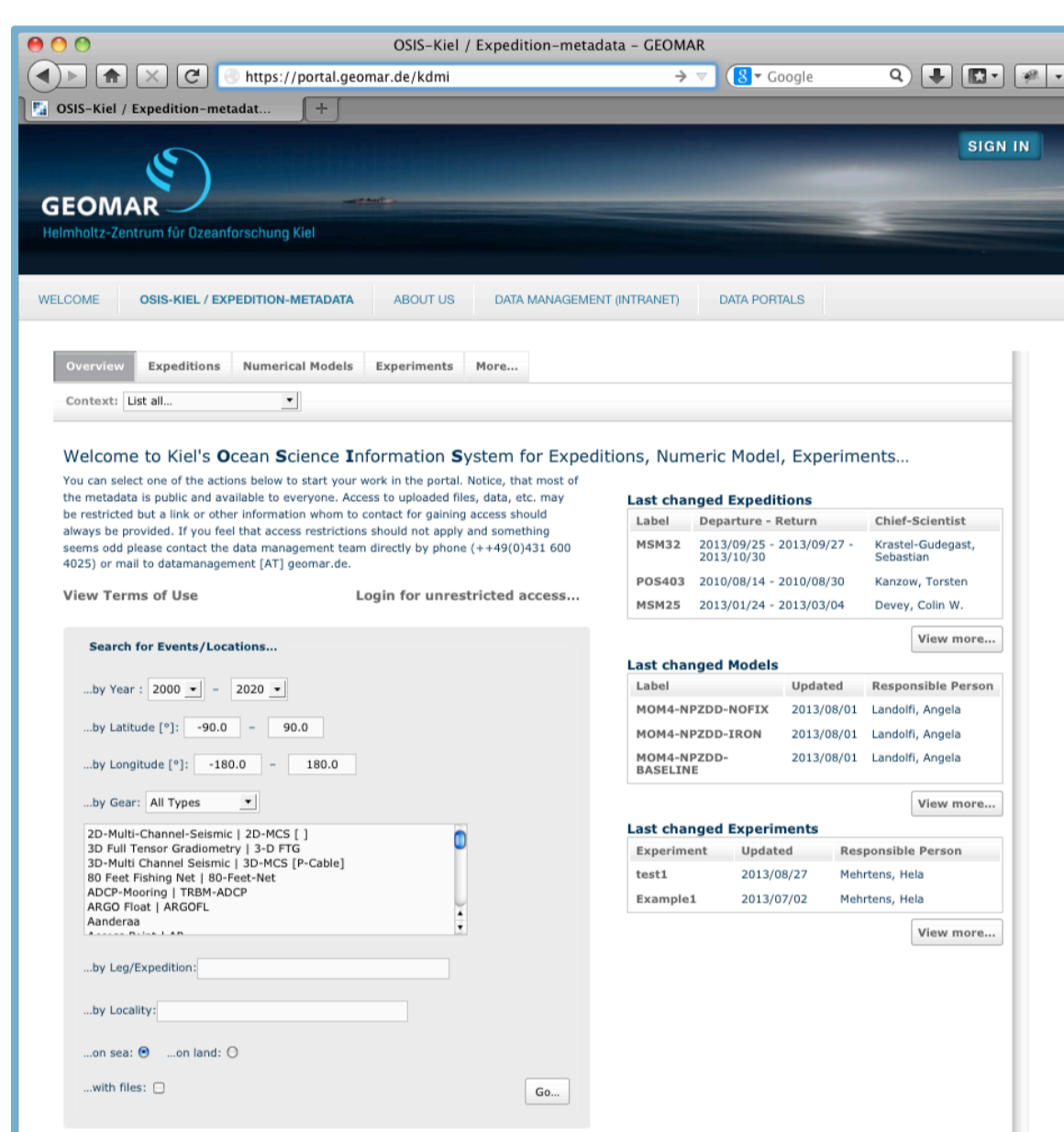
INTRODUCTION

The joint and co-financing approach for one Kiel Data Management Team (KDMT) by GEOMAR, the Future Ocean, SFB754, the EU FP7 project ECO2, phase II of the BMBF project BIOACID and Helmholtz initiative MaNIDA is aiming at a common data management solution for Kiel Marine Sciences. Its main goal is to provide a single point of truth where marine research data is stored and archived/published in well documented manner according to a project's or institutional data policies and beyond finite funding periods of research projects. Data management is intended to support researchers from data collection through collaboration to publication.

SERVICES

After 5 years we now have several systems in operation: the **portal** is used by more than 50 communities and more than 800 users. The Ocean Science Information system **OSIS** contains more than 1000 cruises, 200 model experiments, 3800 files and 8800 related links. Detailed track information about the expeditions is gathered from **DSHIP**, most links refer to the **ePrints** repository, linking data and peer-reviewed publications. Several groups use the **version control system** to handle source code and scripts. The **media server** is used for description, preview and annotation of photos and videos. **Smart pen** and the **PubFlow** prototype are recent developments.

OCEAN SCIENCE INFORMATION SYSTEM



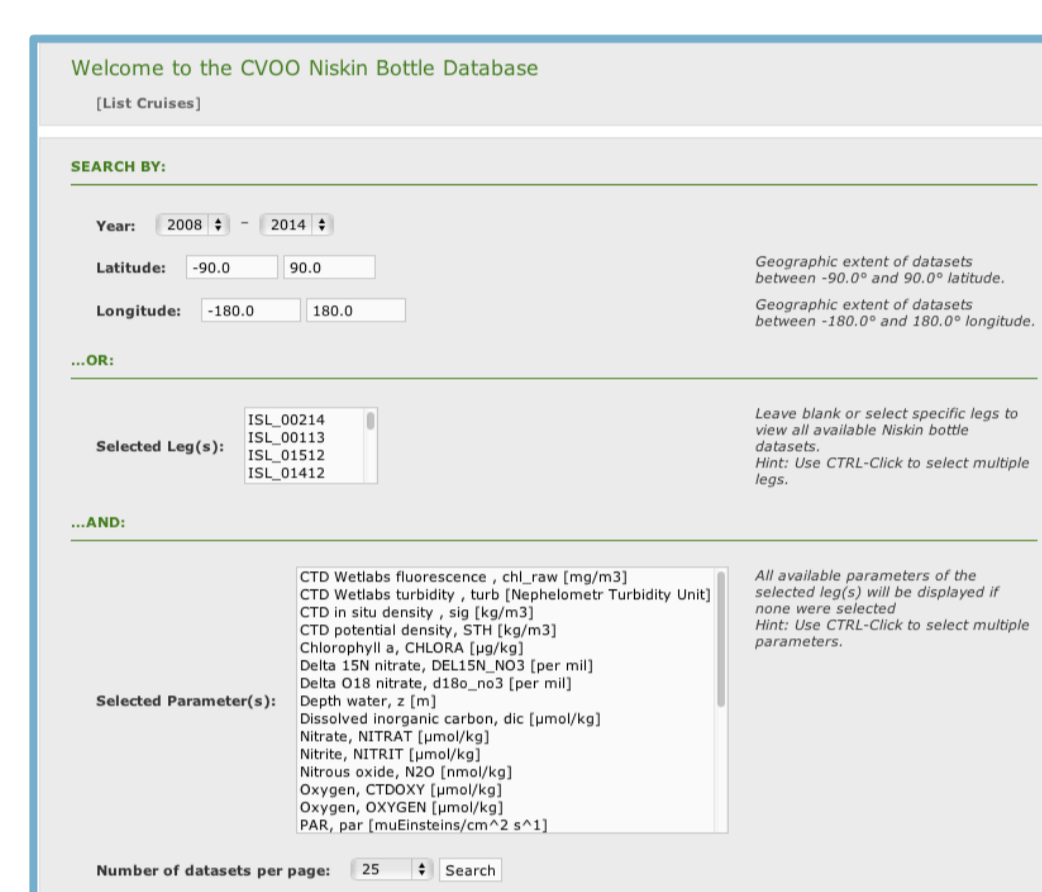
OSIS allows data exchange and description for expeditions, numeric models and experiments.

DSHIP



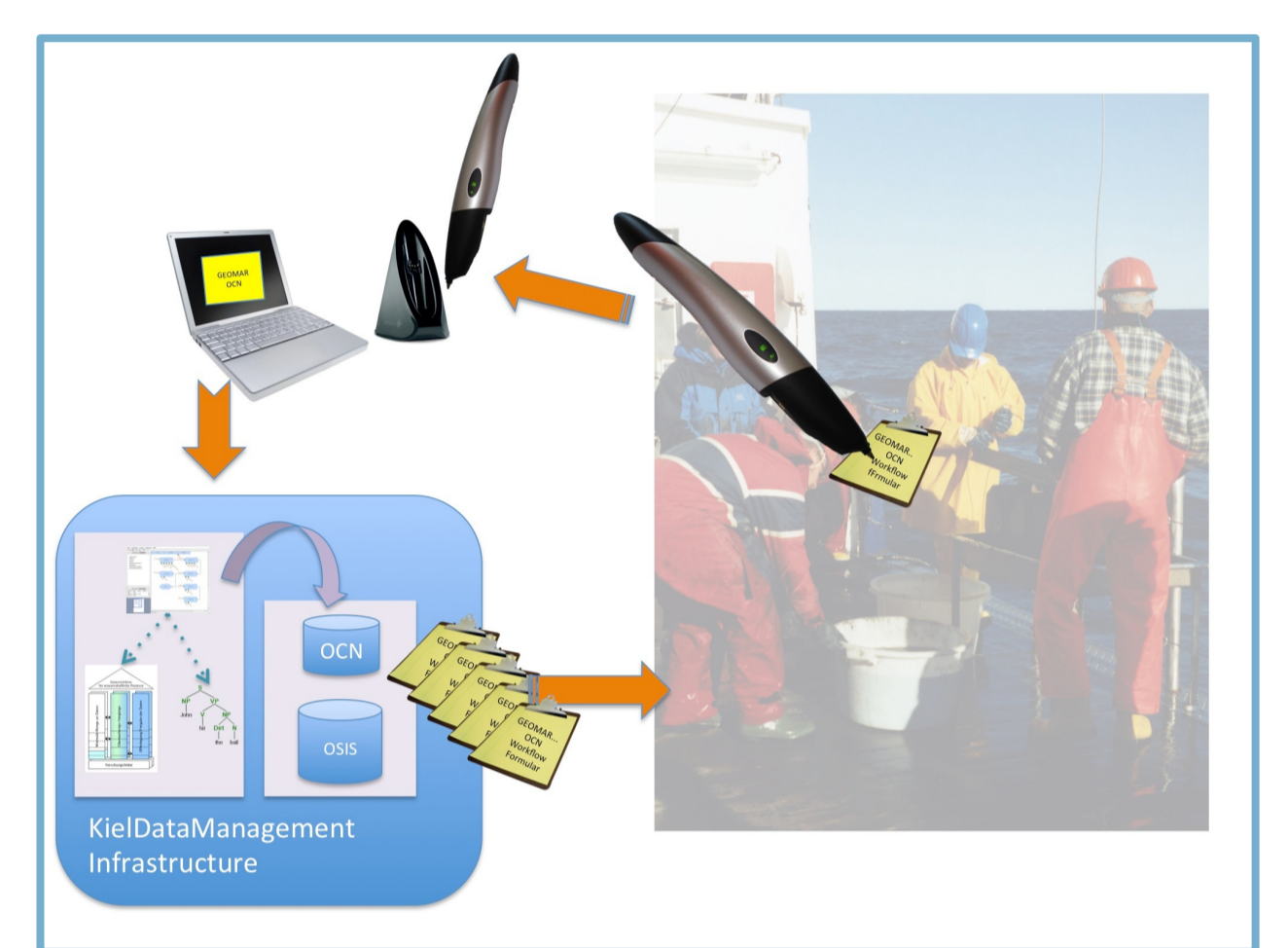
The DSHIP landsystem contains tracks, stations and underway measurements from cruises.

NUTRIENT DATABASE



The database for CTD bottle data allows the search and export of nutrient data from selected cruises in the context of a research project.

SMART PEN



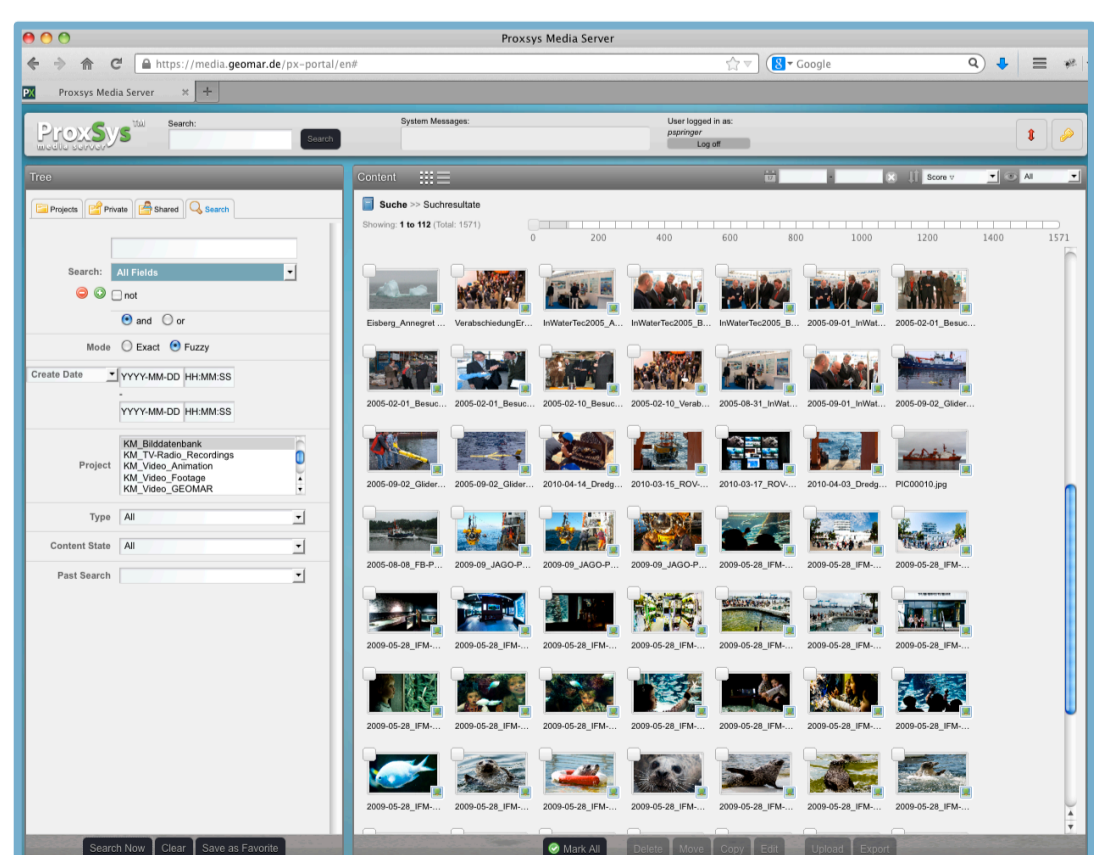
Data capturing by handwriting recognition just in time. Smart forms and pens provide new solutions for data management and field work.

KDMI SEARCH



Search cruise tracks, print publications, sampling locations, glider tracks, sample descriptions and detailed cruise information as georeferenced information in GoogleEarth®.

MEDIA SERVER



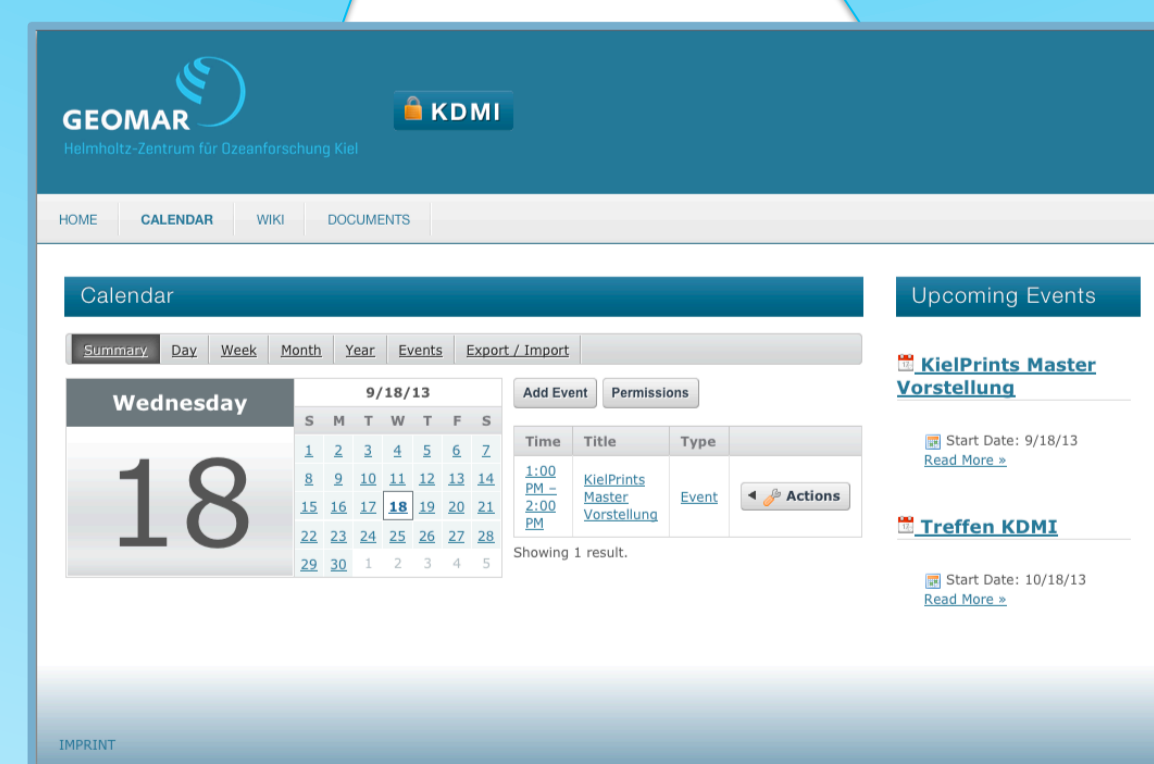
The media server stores videos and photographs with metadata description.

VERSION CONTROL

GEOMAR Subversion Repositories with Trac Wiki			
ADMP	ATK	CPETS	CRUSH
ENC_THRE	ENR	ENR-CC	ENR-ENR
ENR-VNA	ENR-MACO	ENR-GROUP	ENR-PO
FES-BLUVIC	FES-GEY	FES-SP	JWA
KWIK	KWIK-SP	NETE	NETE2
NR	ODOC	ODOC43	RE
SR	TOOLBOX	UDS ANALYSIS	WINCH
SRV-ROBUST	UDS-ANALYSIS		

Version Control System for source code (models, scripts, matlab, ...)

PORTAL



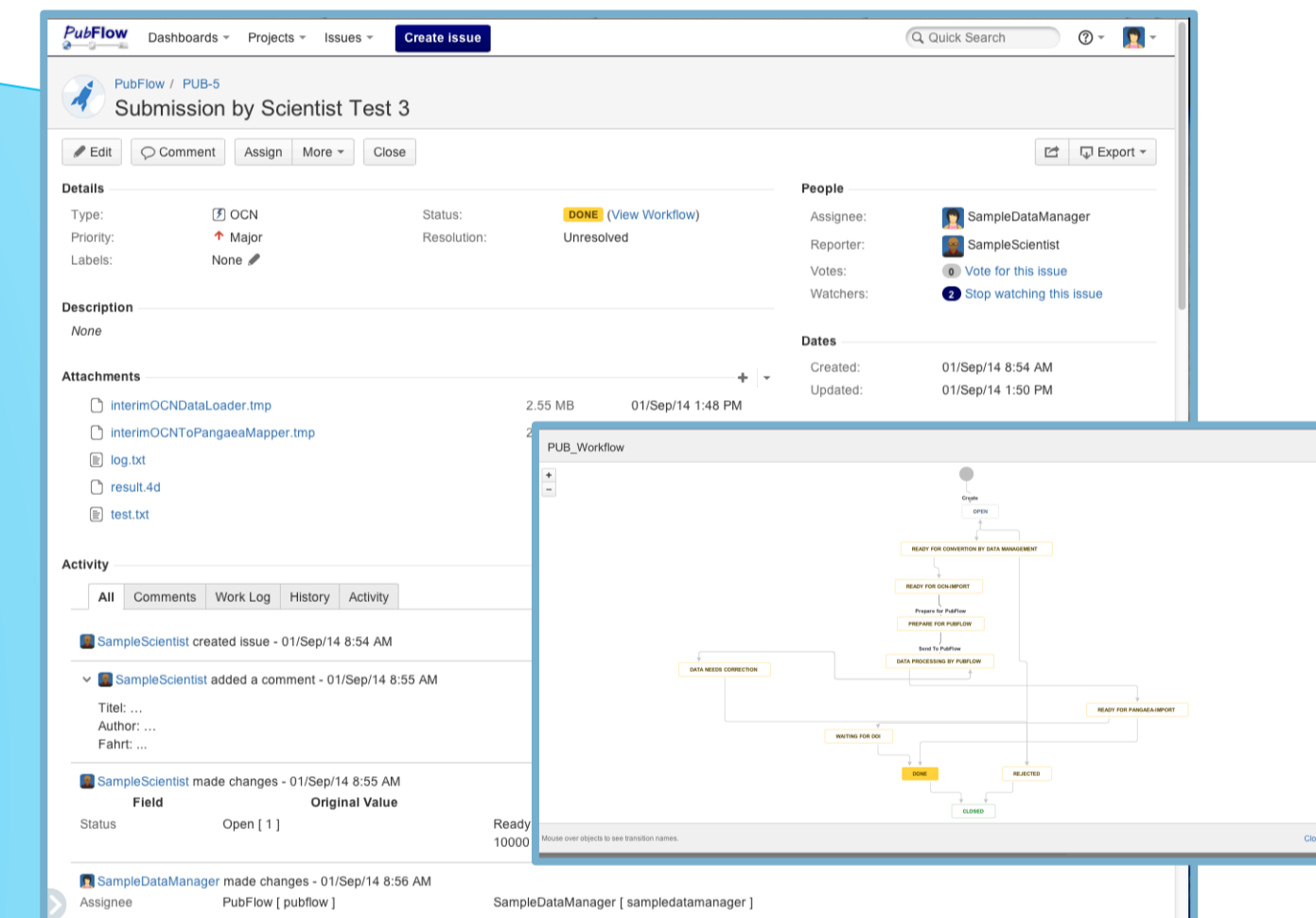
Collaboration portal for research projects, working groups and personal use with multiple functionalities: wiki, calendar, document exchange, message board, ...

KIELPRINTS



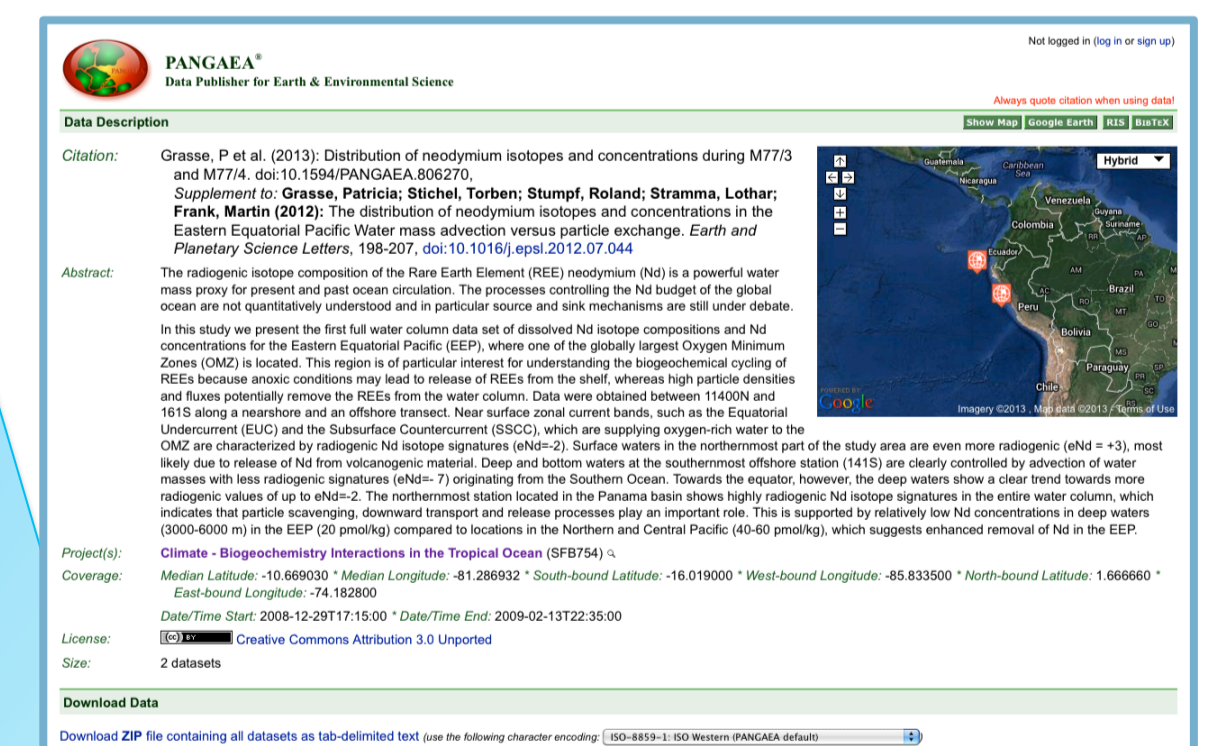
Publications related to Future Ocean are collected in the ePrints Repository 'Kielprints'. Linking with published datasets in PANGAEA or ZENODO is possible as well as with expeditions and numerical models in OSIS.

PUBFLOW



The PubFlow Jira System offers a provenance orientated data publication system for data from the workflow database OCN.

PANGAEA



Open Access and citable datasets with persistent identifiers in a long-term archive.

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