

Overall strategy

ODIP is progressing the coordination of the participating data infrastructures through three prototype development tasks:

- **ODIP 1:** Establishing interoperability between the SeaDataNet, US NODC, and IMOS data discovery and access services using a brokering approach
- **ODIP 2:** Establishing interoperability between cruise summary reporting systems in Europe, the USA and Australia
- **ODIP 3:** Establishing a prototype for a Sensor Observation Service (SOS) and formulating common standards for SensorML and O&M profiles for selected sensors (SWE)

ODIP partners

- **Europe:** 10 EU funded partners from 6 countries: NERC-BGS/BODC, MARIS, OGS, IFREMER, HCMR, ENEA, ULG, CNR, RBINS-MUMM, TNO
- **USA:** NSF funded partners (R2R supplement): San Diego Supercomputer Center (SDSC), Scripps Institution of Oceanography (SIO), Woods Hole Oceanographic Institute (WHOI), Lamont-Doherty Earth Observatory (LDEO), Florida State University — Center for Ocean-Atmospheric Prediction Studies
Others: NOAA, US-IOOS, NOAA US-NODC, NOAA-NGDC, UNIDATA
- **Australia:** University of Tasmania (IMOS)
- **International:** IOC-IODE (Intergovernmental Oceanographic Commission)

Other contributors

- **Europe:** Alfred Wegener Institute of Polar Research (AWI) and MARUM
- **Australia:** Australian National Data Service (ANDS), Geoscience Australia (GA) and CSIRO

Collaboration with other projects and initiatives

- Research Data Alliance (RDA)
- COOPEUS
- Belmont Forum



Ocean Data Interoperability Platform

*ODIP: Establishing and operating an
Ocean Data Interoperability Platform
EU-US-Australia cooperation*

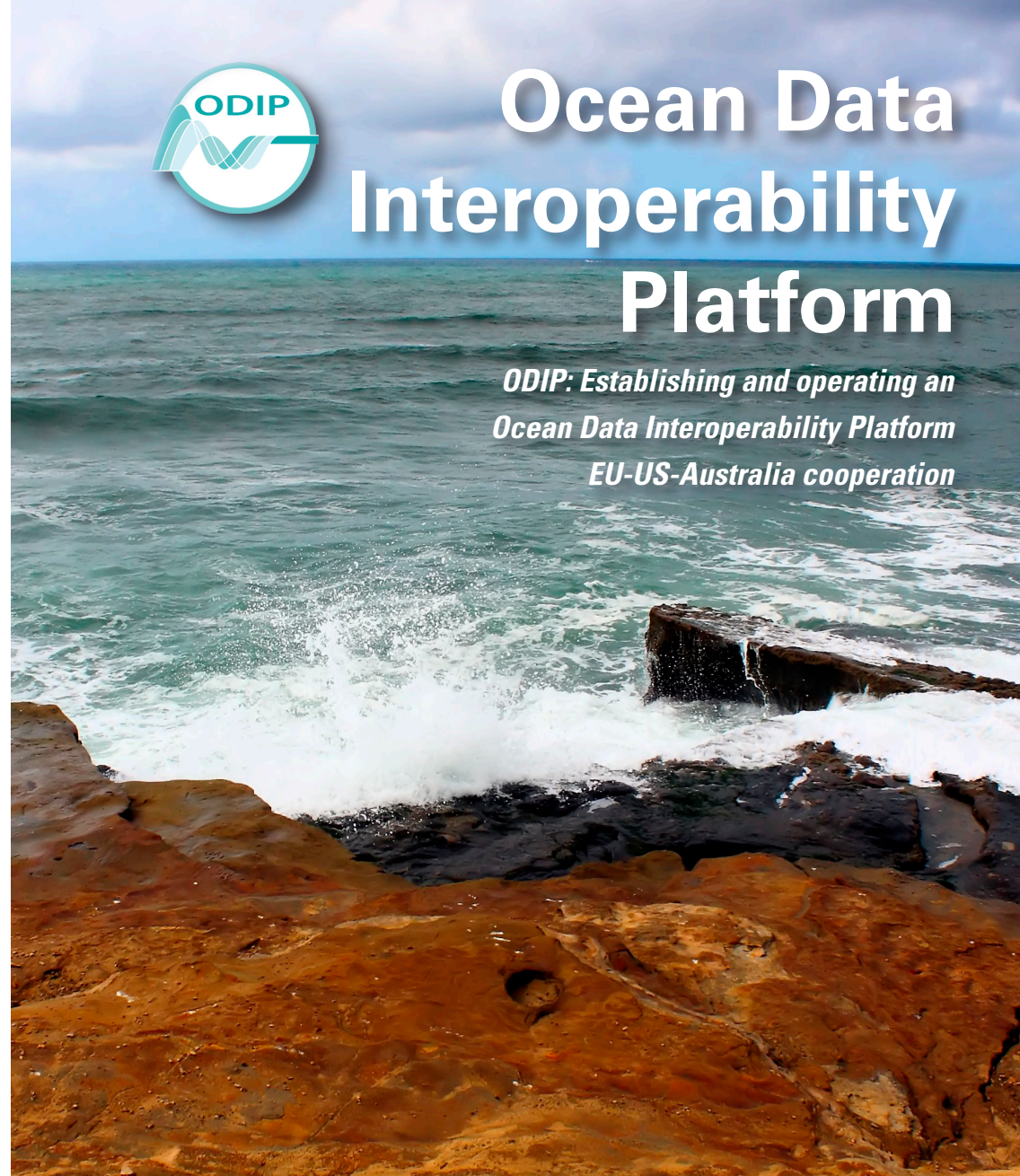


Photo obtained from <http://free-photos.co>



www.odip.org

www.odip.org



Photos courtesy of S Bainbridge (AIMS)

ODIP is a FP7 infrastructures project promoting international co-operation between Europe, the USA and Australia for the development of a common framework for marine data management.

The concept

The Ocean Data Interoperability Platform (ODIP) is contributing to the removal of barriers hindering the effective sharing of data across scientific domains and international boundaries. The project includes many of the major organizations engaged in ocean data management in Europe, the USA and Australia. ODIP is also supported by International Oceanographic Data and Information Exchange (IODE) of the Intergovernmental Oceanographic Commission (IOC) of UNESCO IODE who are closely linking this activity with its Ocean Data Standards initiative.

Regional initiatives in Europe, the USA and Australia as well as the international IOC-IODE are making significant progress in facilitating the discovery and access of marine data. These efforts are resulting in the development and implementation of standards for metadata, data, data products, quality control methods and common vocabularies. They are also providing discovery, viewing and access services, as well as software tools for editing, analysing and presentation of the data.

The approach

ODIP is providing a platform for organized dialogue between ocean data management communities in Europe, the USA and Australia, as well as more widely at the international level.

This collaborative approach will be facilitated by:

- making inventories of existing standards and best practice for marine data management
- publishing documentation about these existing standards and best practice through the ODIP and IODE Ocean Data Standards (ODS) websites
- organizing regular joint workshops bringing together regional recognised domain experts for the purposes of developing interoperability between existing regional data infrastructures
- development of prototypes to test and evaluate potential interoperability solutions for the different marine disciplines
- disseminating and promoting the ODIP activities/results to encourage participation and adoption by the wider community
- develop synergies with other related projects; especially those in the marine research area e.g. EMODNET, as well as wider infrastructure projects such as COOPEUS and Research Data Alliance (RDA)

The objectives

- Build trust, co-operation and consensus between European, US and Australian partners
- Establish a co-ordinated approach to the harmonisation of marine data management infrastructures that can be applied and adopted globally

Make an inventory of standards from on-going regional initiatives including:

- **Europe:** SeaDataNet, Geo-Seas, EMODNet, MyOcean, JERICO, EUROFLEETS
- **USA:** R2R, UNIDATA, US NODC, MMI, Q2O, US-IOOS, DMAC, US NODC
- **Australia:** AODCJF, IMOS
- **International:** JCOMM/IODE Ocean Data Standards