

**ROLLING DECK TO REPOSITORY (R2R):  
SUPPORTING GLOBAL DATA ACCESS THROUGH  
THE OCEAN DATA INTEROPERABILITY  
PLATFORM (ODIP)**

**CONTACT DETAILS:**

**PROJECT NAME:** ROLLING DECK TO REPOSITORY (R2R) PROGRAM

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**Objectives:**

The U.S. National Science Foundation supports a fleet of academic research vessels operating throughout the world's oceans. The Rolling Deck to Repository (R2R) Program is funded by NSF to ensure that the environmental sensor data collected by these vessels are routinely cataloged, documented, and submitted to the appropriate national repositories for long-term preservation and public access.

The Ocean Data Interoperability Platform (ODIP) is an E.U.-led initiative to remove barriers to the effective sharing of data across scientific domains and international boundaries, by providing a forum to harmonize diverse regional systems. To advance this goal, ODIP organizes international workshops to foster the development of common standards and develop prototypes to evaluate and test potential standards and interoperability solutions. ODIP includes major organizations engaged in ocean data stewardship in the E.U., U.S., and Australia, supported by the International Oceanographic Data and Information Exchange (IODE).

**On-going activities:**

R2R's contribution to ODIP will include 1) Publishing data and documentation using a "Linked Open Data" approach, leveraging World Wide Web Consortium (W3C) specifications to make content broadly and easily accessible; 2) Mapping key vocabularies used by R2R to their European and Australian counterparts, relying on the backbone thesaurus provided by the UK NERC Vocabulary Server; 3) Upgrading existing ISO metadata records to be compatible with the new EU SeaDataNet II Cruise Summary Report (CSR) profile, and publishing the records in a standards-compliant GeoNetwork portal; and 4) Developing the future workforce by engaging a group of students in a series of ODIP-related projects, including participation in the ODIP workshop process.

**Results:**

The first ODIP Workshop was held in February 2013 (Oostende) with 40+ participants, to assess existing standards and develop a set of proposed interoperability prototypes. Prototypes will be reviewed during a working meeting at the IMDIS conference in September 2013 (Lucca), in preparation for the second ODIP Workshop in December 2013 (La Jolla).

**URL:** <http://rvdata.us/>, <http://odip.org/>