



OCEAN DATA INTEROPERABILITY PLATFORM

EU SEVENTH FRAMEWORK PROGRAMME (FP7) CONTRACT N°312492



Activity: International co-operation with the USA and Australia on common e-infrastructure for marine data

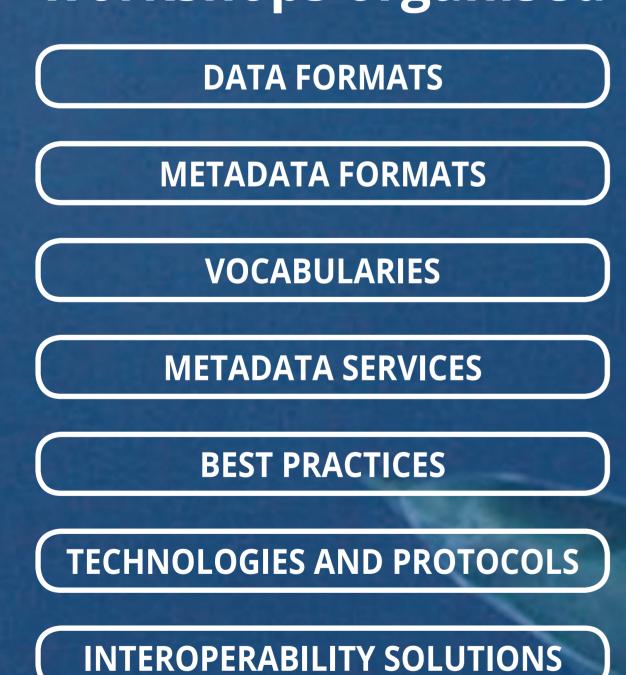
SCENARIO

Heterogeneous ocean and marine data has been acquired using a vast array of instruments and collected in various different data and metadata formats. Many data producers and partners archive ocean and marine data a valuable resource for the whole ocean community: physical, chemical, biological, geological and geophysical. The collaboration between different institutions is crucial to reduce differences in data management practices and to build an international consensus on key elements that facilitate data exchange and standardise data and metadata services. The added value of common procedures to check quality and the production of interoperable ocean data and metadata enables trust and overcomes the lack of available raw data. It triggers a cycle that improves the quality of the research and the data that relies upon it. It provides researchers with new opportunities and benefits everyone through improved global knowledge.

in existing e-infrastructures that are not integrated and operate independently. Marine data is very expensive to collect and is



Topics addressed during the 4 workshops organised



ODIP 1

Single points of access for data and metadata services

Developing interoperability between the SeaDataNet (Europe), Integrated Marine Observing System (Australia) and National Oceanographic Data Centre (USA) data discovery and access services using the (Euro) GEOSS GEO-DAB brokering service.

Facilitate access to data from the regional data services by the GEOSS portal and IODE Ocean Data Portal (ODP).

A unified information system for vessels and ships of opportunity acquiring marine data

PROTOTYPES

ODIP

Establishing interoperability across cruise summary reporting (CSR) systems in Europe, the USA and Australia, and improving the delivery and exchange of cruise summary information across these and other global services, such as the Partnership for Observation of Global Oceans (POGO) catalogue, by implementing the use of common formats and vocabularies.

ODIP 3

A standardised system to improve descriptions of marine observation instruments

Establishment of a prototype Sensor Observation Service (SOS) for selected sensors installed on vessels and in realtime monitoring systems using sensor web enablement (SWE). Progress the regional initiatives towards the adoption of SWE allowing direct standardised access to the data from operational sensor systems.

ODIP PARTNERS

EUROPE

NERC (Coordinator) (UK) MARIS (Technical Coordinator) (Netherlands) OGS (Italy) IFREMER (France) HCMR (Greece)

ENEA (Italy) ULg (Belgium) CNR (Italy) RBINS-MUMM (Belgium) TNO (Netherlands)

USA

SIO Scripps Institution of Oceanography **WHOI** Woods Hole Oceanographic Institute **UNIDATA**

LDEO Lamont-Doherty Earth Observatory NOAA US-IOOS, NOAA US-NODC, NOAA NGDC Florida State University Center for Ocean-Atmospheric Prediction Studies

AUSTRALIA

IMOS University of Tasmania

INTERNATIONAL

UNESCO IOC-IODE (Intergovernmental Oceanographic Commission)

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