

via an internet-based portal. Metadata for the Geo-Seas data portal will be produced by the local data centres and will then be harvested automatically by the centralised Geo-Seas metadata database system. This methodology will allow the metadata databases to be kept up to date with regular updates being done effectively and efficiently. The existing SeaDataNet discovery metadata standard profile (Common Data Index or CDI), which is based upon the ISO19115 standard, has been upgraded to accommodate the requirements of the Geo-Seas project and its end users.

Geo-Seas also uses the pre-existing SeaDataNet methodologies including the architecture and middleware components, where appropriate, to interconnect the geological and geophysical data centres. This facilitates the integration of geological and geophysical datasets with other oceanographic data which is managed by the SeaDataNet data centres. This not only avoids unnecessary duplication of effort within the project where there are pre-existing technologies but also facilitates multidisciplinary use of oceanographic and marine data.

Geo-Seas partners:

NERC-BGS (United Kingdom), NERC-BODC (United Kingdom), NERC-NOCS (United Kingdom), MARIS (Netherlands), IFREMER (France), BRGM (France), TNO (Netherlands), BSH (Germany), IGME (Spain), LNEG (Portugal), IGME (Greece), GSI (Ireland), BGR (Germany), OGS (Italy), GEUS (Denmark), NGU (Norway), PGI (Poland), EGK (Estonia), LIGG (Lithuania), IO-BAS (Bulgaria), NOA (Greece), CIRIA (United Kingdom), MUMM (Belgium), UB (Spain), UCC (Ireland), EU-Consult (Netherlands), CNRS (France), SHOM (France), CEFAS (United Kingdom), and LU (Latvia).



Further information is available at: www.geo-seas.eu



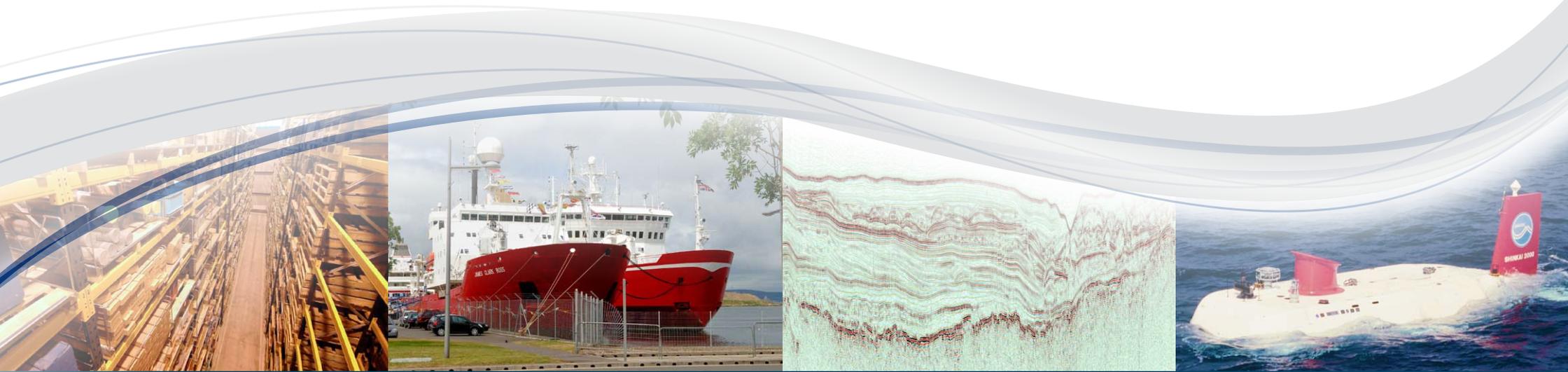
Geo-Seas

Geo-Seas

*a pan-European network for marine
geoscientific data linking 26 marine
geoscience data centres from
17 coastal countries*



www.geo-seas.eu



All photographs are BGS/CNERC 2010

Geo-Seas is an Integrated Infrastructure Initiative (I3) project in the Research Infrastructures programme within the EU Framework 7 (FP7). The project has a duration of four years commencing in May 2009 and continuing until 2012.

The overall objective of the Geo-Seas project is to build and deploy a unified marine geoscientific data infrastructure within Europe for the sharing of marine geological and geophysical data. This will result in a major improvement in the locating, accessing and delivery of federated marine geological and geophysical data and data products from national geological surveys and research institutes across Europe.

The aims of Geo-Seas are aligned with European directives and recent large-scale framework programmes on global and European scales, such as Global Earth Observation System of Systems (GEOSS) and Global Monitoring for Environment and Security (GMES), European Marine Observation and Data Network (EMODNET) and INSPIRE.

Geo-Seas expands the existing SeaDataNet marine and ocean data management infrastructure to handle marine geological and geophysical data, data products and services, creating a joint infrastructure covering both oceanographic and marine geoscientific data.

Common data standards and exchange formats are being agreed and implemented across the data centres. Geo-Seas is adopting and adapting SeaDataNet standards and tools. Geo-Seas is also taking into account the experience and developments arising from international geological projects such as OneGeology and GeoSciML. Many of the Geo-Seas partners are also partners in these international projects. Moreover existing international standards, such as OGC, are being included in the formulation of common standards.

Catalogues of data, data products and services managed and operated by the Geo-Seas data centres will be maintained and published to allow access by the end users. Current data exchange and delivery formats are being harmonised across the participating data centres allowing users access to federated marine geological and geophysical datasets