

The UK Marine Environmental Data and Information Network – MEDIN

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Why consider the marine sector?







1. History



•Grown from previous work that have been in operation since 1996

•In 2004 a Marine SDI was recommended by an independent report.

•2005 The first UK Integrated Assessment of the marine environment

•2005 - 1st phase of scoping and demonstration

•2008 – 2nd phase of implementation of the SDI



Confidence in assessments and ability to detect trends limited By lack of data By unreliable data

'Working to Deliver Improved Access to and Stewardship of UK Marine Data and Information'

2. The MEDIN Approach



• Provide a central (discovery) metadata search capability to improve the discovery and reuse of datasets

• Data Archive Centres (4 at present) – building on existing organisations (BODC, DASSH, BGS, UKHO). Seen as the long term home of the data

• An agreed set of common standards for metadata, data format and other requirements

• Guidelines, contractual clauses and software tools to support these standards and best practice data acquisition and management.

.... Core components of a marine Spatial Data Infrastructure

2. The MEDIN Approach





3. Standards



- To establish and promote standards for metadata and data products to allow users to locate and access the data sets they need, and also to provide guidelines and tools for the generation and preparation of metadata and data products.
- Discovery metadata: "What data are available, and who has them?"
- Data thematic guidelines: For provision to DACS, and thematic interoperability
- Guidelines and Tools: To help with generation of metadata and data products

Following INSPIRE standards where applicable.

4. Portals

MEDIN Discovery Portal - Search capability to allow users to identify and locate *all data* held within the MEDIN DAC framework. *www.oceannet.org*

Evaluation Metadata Application – UK Directory of *Marine Observing Systems* – Developed to help coordinate and plan marine monitoring in the UK

www.ukdmos.org





5. Who is involved?



- 14 Sponsors including all devolved administrations who approve the work programme
- A collaborative and open partnership >30 partners
- ~3 fte.



6. MEDIN Partner Commitments



The only way to establish a SDI which is sustainable over the long term is to have all partners adopt common standards and procedures **as part of their normal working practice**

- Commit a number of staff days per year to participate actively in MEDIN.
- All marine data of long-term interest will be lodged with DACs recognised by MEDIN. DACs to ensure data are always freely available to supplier.
- Generate metadata records for all marine data in MEDIN format and make these metadata freely available to MEDIN.
- Establish a clear policy with regard to data ownership, licencing and access as they adhere to individual data sets.
- Conformance with various data policies as they relate to individual data sets.

7. Data Clause in Government contracts

MEDIN is developing a "Data Clause", with supporting guidance notes, in cooperation with UK Government Departments.

marine environmental data & information network

Should provide clear guidance on :

- Application and documentation of recognised standards during data collection and processing
- Metadata must be provided with each data set format recommended by MEDIN
- Make arrangements for archival of data to MEDIN recommended standards
- Clearly establish ownership, IPR and terms for further (3rd party) use of data.



Thankyou www.oceannet.org

3. Data Archive Centres



- The existing marine Data Archive Centres (DACs) have in general been established independently to serve specific user groups.
- MEDIN aims to build a coordinated and harmonised network of marine DACs, to cover all key marine data types
- The requirements on this DAC framework are:
 - To ensure the secure long-term curation of key marine data sets according to best practice and accepted international standards.
 - Make available clear searchable information on the DAC data holdings, by the generation and publication of metadata on the MEDIN portal.
 - Form the first port of call for expertise on the management of marine data.