

## This Issue...

### The Heritage Value of Modern Shipwrecks

by Martin Newman - English Heritage



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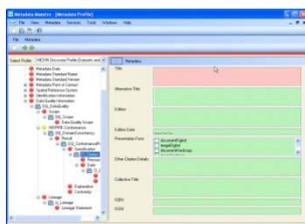
### MEDIN Open Meeting: Engaging with MEDIN in its operational phase



MEDIN will be holding an open meeting on **2nd November 2011 at the Institute of Education in London** to showcase the implementation of MEDIN, and demonstrate partners' progress and achievements in marine data management within the MEDIN framework. **REGISTER!**

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### Metadata Maestro now available for download!



Metadata Maestro, which allows users to create, edit, validate and transform discovery metadata records to MEDIN, GEMINI and ISO standards, is now available for download.

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## Announcement of opportunity to develop a MEDIN Data Guidelines for geophysical seabed surveys



Delivery date for the draft guidelines will be 1st February 2012. After which consultation by the MEDIN Standards WG and the UKMMAS seabed mapping working group will take place and final report by 1st April. The successful applicants are expected to agree their approach at the start of the project with these groups.

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## The Heritage Value of Modern Shipwrecks

As reported in *Marine Data News No16* last year English Heritage has undertaken a project with funding from MEDIN to expand its database of historic shipwrecks to include post war losses. The project, which has now been completed, involved carrying out desk-based research checking and combining information from various sources and has resulted in the recording of over 500 wrecks. The locations of which can be seen in figure 1.



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Figure 1 Distribution of post 1945 wrecks recorded by English Heritage.

When the maritime component of the National Record of the Historic Environment was originally set up in the early 1990s a cut off date of 1945 had been set for the project. The data has been continually updated since the end of the project, however, this cut off date continued. As time has passed there has been increased interest in the post-war period with these sites being increasingly seen as a significant part of the historic environment and having heritage value. This is probably best demonstrated by the listing of post-war buildings and the maritime designation for historic shipwrecks (the Protection of Wrecks Act 1973) having no cut off data. In order to assess the significance of sites, give appropriate planning advice and properly manage the resource, it is important to have a good evidence base, which is what this project set out to create for post 1945 shipwrecks. Individual records were created including a detailed descriptive field as well as index date to facilitate retrieval recording attributes such as type, manner of loss, cargo, material, propulsion, nationality etc. These concepts all use controlled terminology lists and thesauri, and an additional benefit from the project has been the addition of new terms. The Maritime Craft Type Thesaurus ([http://thesaurus.english-heritage.org.uk/thesaurus.asp?thes\\_no=143](http://thesaurus.english-heritage.org.uk/thesaurus.asp?thes_no=143)) had 13 new terms added reflecting more modern vessels that hadn't previously been recorded including 'catamaran' and 'hydrofoil'. New terms in the nationality list reflected the post war geo-political changes which had taken place with nationalities being added that had not existed prior to the post war period, such as 'Pakistani'. Similarly fibreglass was unknown as a construction material prior to this period.

Some of the wrecks are completely submerged whilst others such as the *Admiral Van Tromp* (see figure 2) are in the intertidal zone where their remains provide an enigmatic reminder of our recent maritime past.



**Figure 2, The wreck of the *Admiral Van Tromp*, a trawler which stranded near the Black Neb rock in 1976. © English Heritage Photo Library.**

The wrecks recorded also showed changes in society with an increase in the leisure craft being recorded including sailing boats, yachts and cabin cruisers. By contrast other vessels were already of historic interest when they were lost including several Thames Barges.

Some particularly interesting wrecks recorded as part of the project included:

- Three submarines scuttled in 1957 to provide practice sonar targets
- Trawler which capsized after fouling a WWII crashed aircraft in 1974 which was also previously unrecorded
- A Hydrofoil that foundered in 1970
- The Irish coaster *Union Star* which sank on her maiden voyage in 1981 and tragically the Penlee lifeboat (*Solomon Brown*) that tried to rescue the crew. Tragedies such as this one highlighted the need for careful recording as the events are still remembered and relatives of those involved may well read the records.
- The *Torrey Canyon* which struck Pollards Rock and caused the worlds first major oil spill in 1967
- A 1920s paddle steamer that sank whilst being towed to the breakers in 1967
- A tug hit by a shell intended for the target vessel she was towing in 1946
- The original Isle of Wight chain ferry that sank whilst being towed to the breakers in 1976
- The last recorded shipping loss of WWII, the *Betty Hindley* which struck a German mine in 1947.

Details of all the shipwrecks recorded as part of this project as well as all the other sites that make up the National Record of the Historic Environment (both maritime and terrestrial) can be accessed via English Heritage's PastScape website ([www.pastscape.org.uk](http://www.pastscape.org.uk)).

Thanks are due to Anna Komar who carried out the recording, Tom Duane who produced the map in Figure 1 and MEDIN whose grant enabled English Heritage to undertake the project.

## MEDIN Open Meeting: Engaging with MEDIN in its operational phase

Jeffrey Hall, Institute of Education, University of London  
Wed 2nd November 2011

MEDIN will be holding an open meeting entitled '**Engaging with MEDIN in its operational phase**' on **2nd November 2011 at the Institute of Education in London** to showcase the implementation of MEDIN, and demonstrate partners' progress and achievements in marine data management within the MEDIN framework. If you would like to present at this meeting to show how your organisation is using the MEDIN framework then please contact [tele@bodc.ac.uk](mailto:tele@bodc.ac.uk).

Location details can be found [here](#).

Anyone is welcome to attend to discover how MEDIN can help you and your organisation meet your data requirements. The day will focus on existing data flows, use of standards and future work to aid partners' interaction with MEDIN.

**Register for this event** stating your full name and any dietary requirements (other than vegetarian). Please also feel free to ask any questions you might have.

Registration on the day will likely start at 9:30, but a full programme of events will be issued nearer the time. There will be space for erecting conference stands and display boards for posters are available on request.

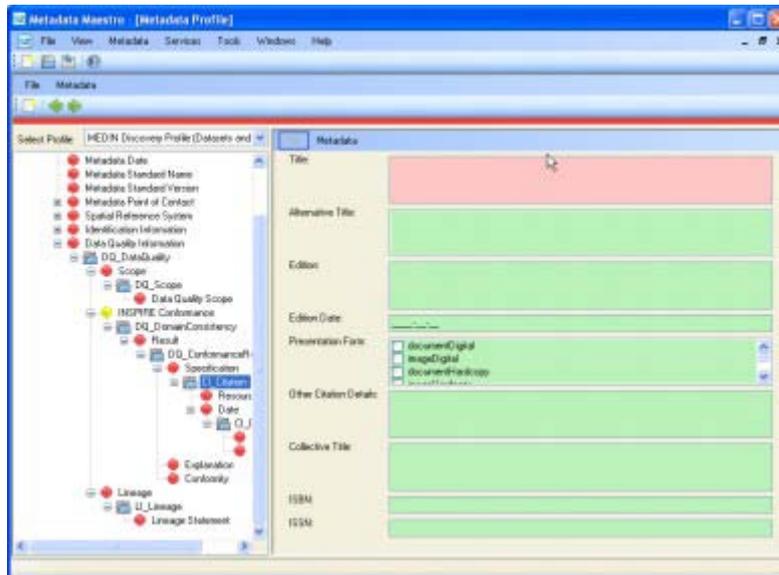
**We look forward to seeing you there!**

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## Metadata Maestro now available for download!

Metadata Maestro allows users to create, edit, validate and transform discovery metadata records to MEDIN, GEMINI and ISO standards.

Metadata Maestro operates in desktop standalone mode as well as being able to use a web service to access required vocabularies when an internet connection is available. It is free to download under licence.



Download metadata maestro

[http://www.oceannet.org/marine\\_data\\_standards/metadata\\_maestro.html](http://www.oceannet.org/marine_data_standards/metadata_maestro.html)



### Instructions for download and installation

[http://www.oceannet.org/marine\\_data\\_standards/medin\\_approved\\_standards/documents/maestro\\_downloaded\\_instructions.pdf](http://www.oceannet.org/marine_data_standards/medin_approved_standards/documents/maestro_downloaded_instructions.pdf) (274 KB).

Metadata Maestro is a collaboration between **SeaZone** and the Marine Environmental Data and Information Network.



# Announcement of opportunity to develop a MEDIN Data Guidelines for geophysical seabed surveys

## Deriving MEDIN Data Guidelines for Geophysical Seabed Surveys

### Competition Details and Project Specification

#### INTRODUCTION

The Marine Environmental Data and Information Network (MEDIN) are working towards creating a consistent framework of standards for the acquisition and management of UK-commissioned marine environmental data.

MEDIN have derived and published data guidelines which set out the information that must be recorded when data of a certain type is being collected. Examples are given below although please visit the [MEDIN metadata guidelines](#) web page to view the most recent list.

- Benthic invertebrate sediment sampling by grab or core
- Archiving digital images
- Offshore litter data by trawl, dredge or towed sledge
- Oceanographic vertical profile data
- Cetacean sighting and identification
- Fish and benthos by static pot, net or trap
- Shellfish stock assessment
- Fish and benthos by trawl or dredge
- Recording oceanographic data from moored instruments
- Surface underway oceanographic data
- Water sample for chemical or biological analysis

The principle benefits of these standards are to:

- Instill good practice amongst users
- Allow contracting organisations to specify a format that data should be returned in that can be readily used and includes all relevant attributes
- Provide a consistent format for contractors to work to (rather than a different format for each contract)
- Allow easy ingestion of data to Data Archiving Centres
- Improve interoperability between organisations by providing a format which can be used to import and export data

#### OUTLINE OF EXPECTATIONS

The following techniques should be covered

- Sidescan Sonar
- Magnetometer
- Singlebeam Echosounder
- Multibeam Echosounder (including backscatter)
- Acoustic Doppler Current Profiler (ADCP)
- Tidal reduction (including GPS tides)
- Positioning and control
- Ancilliary measurements (e.g. Secchi disc)
- Sub-bottom profiler
- Gravimeter

The derived guidelines should

- follow the existing structure implemented by MEDIN to allow compatibility with the overall model
- where applicable and timely, be consistent with any relevant INSPIRE Annex 3 Data Specifications (it is recognised that these are in a draft state at present and may change upon final publication)
- be flexible to allow the use of the standard for different scenarios and different needs. For example clearly show where a field is mandatory for a specific need (e.g. bathymetric surveys to IHO standards)
- propose formats for exchanging the data
- be signed off by the UKMMAS seabed mapping working group and the MEDIN Standards Group

It is recognised that there are several projects which have derived common protocols for taking marine geophysical measurements but few that have considered a prescribed data model for exchanging the data which has been agreed throughout the community. It is important that the production of the Data Guidelines should wherever possible adopt, adapt and build upon existing relevant projects and documentation. Such projects and documents include:

[Marine Survey Data Management Handbook v1. British Geological Survey](#)  
[Mapping European Seabed Habitats \(MESH\) Guidelines](#)  
[IHO standard for Hydrographic Surveys, Special Publication S-44](#)  
[MCA requirements for survey reporting](#)  
[ICES multibeam echosounder data](#)  
[Oil and Gas Produces](#)  
[Seabed Survey Data Model](#)  
[INISHYDRO](#)  
[MAREMAP](#)

## REPORTING

Delivery date for the draft guidelines will be 1<sup>st</sup> February 2012. After which consultation by the MEDIN Standards WG and the UKMMAS seabed mapping working group will take place and final report by 1<sup>st</sup> April. The successful applicants are expected to agree their approach at the start of the project with these groups.

The products will be guidelines in document form and xls templates (and/or other formats as recommended) of any new tables derived and a document outlining the approach taken and any difficulties encountered.

## FURTHER DETAILS

For an informal discussion about this project, please contact Mark Charlesworth on 0151 7954949 or [ormecha@bodc.ac.uk](mailto:ormecha@bodc.ac.uk)

This article can be downloaded as a word document [here](#).

To apply please complete the form below and return one electronic copy to [mecha@bodc.ac.uk](mailto:mecha@bodc.ac.uk) and one signed copy to:

Mark Charlesworth  
BODC,  
6 Brownlow Street,  
Liverpool,  
L3 5DA

The tenders will be assessed on ability to build on or adapt existing work in this area, work plan, track record and value for money

The closing date for applications is 20<sup>th</sup> August and the project is expected to start within 2 weeks of confirmation of proposal success.

### Funding Request

|  |  |
|--|--|
|  |  |
| <b>Organisation(s)</b>   |  |
| <b>Personnel</b>   |  |
| <b>Describe how you will build on the existing projects and resources available in this topic area</b> |  |
| <b>Description of work and products</b>  |  |
| <b>Project Plan</b>  |  |
| Key Dates  |  |
| <b>Costs</b> (broken down by organisation if relevant)   |  |
| Staff time with rates  |  |
| Travel Costs   |  |
| Other Costs  |  |
| Total Cost   |  |
| <b>Any In-kind contribution</b>  |  |
| <b>Describe relevant experience</b>  |  |

## NEWS

### Opportunity to attend a MEDIN standards workshop

British Oceanographic Data Centre, Liverpool, 26<sup>th</sup> October, 10.30 to 4 pm

MEDIN is offering the marine community an opportunity to attend a workshop to improve the knowledge and use of MEDIN standards and the tools that support them. The workshop will include:

- A general introduction to MEDIN
- Discovery metadata – introduction to standard and resources, demonstration and practical use of the on-line and metadata maestro tools
- Data Guidelines – introduction and practical
- Controlled vocabularies – demonstration of access to most commonly used vocabularies
- Wrap up and feedback

The workshop is free to attend but has a maximum delegation of 10. Please register your interest by e-mailing [mecha@bodc.ac.uk](mailto:mecha@bodc.ac.uk). Only 1 delegate from each organisation is allowed in the first instance. It is anticipated that further workshops will be held throughout the UK upon the successful completion and feedback from this first one.

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## EVENTS

### 1st MASTS Annual Science Meeting 22-24/08/11

The Marine Alliance for Science and Technology for Scotland (MASTS) will hold its first **Annual Science Meeting (ASM) on Monday 22nd – Wednesday 24th August 2011** at the [Heriot-Watt University Conference Centre](#).

A programme of events can be found [here](#).

As well as the oral presentations, there will be in excess of 60 poster presentations. The third day will play host to six workshops and I would encourage you all to sign up and attend those.

**Registration ends 5/8/11.**

It is recommended that you book accommodation asap, since Edinburgh in August can be a very busy time. Further details can be found at [http://www.masts.ac.uk/annual\\_travel.aspx](http://www.masts.ac.uk/annual_travel.aspx)