



Irish Coastal and Marine Data & Information Services

Eoin O'Grady, Marine Institute



EEA Conference on Coastal Atlas Development, 11th July 2008

Organisations with Marine Data

SeaDataNet European Directory of Marine Organisations (EDMO) - Windows Internet Explorer

http://seadatanet.maris2.nl/edmo/

File Edit View Favorites Tools Help

Google G Go Search Ireland M Bookmarks

SeaDataNet European Directory of Marine Organisations

SeaDataNet

SEARCH IN EDMO

This directory lists the organisation profiles of all (1000+) Data Holding Centres, Research Vessel operators, and Research Vessel operators, that have an active role in one or more of the SeaDataNet data sets, EDMERP - research projects, CSR - research cruises, EDIOS - observational data). Direct crosslinks are provided to their entries in these directories. The organisations are listed by country by the SeaDataNet partners.

Discussions Discussions not available on http://seadatanet.maris2.nl/

Currently

- Some good sources of data available today...



Department of Communications, Energy and Natural Resources
Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádúrtha

 **Petroleum Affairs Division**

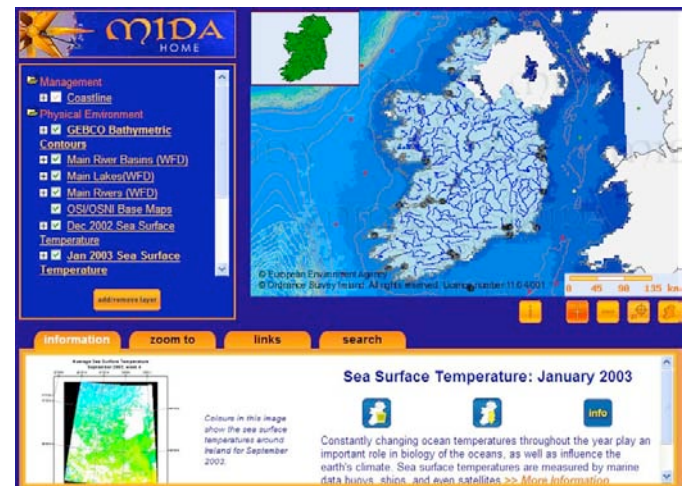


Comhshool, Oidhreacht agus Rialtas Áitiúil
Environment, Heritage and Local Government



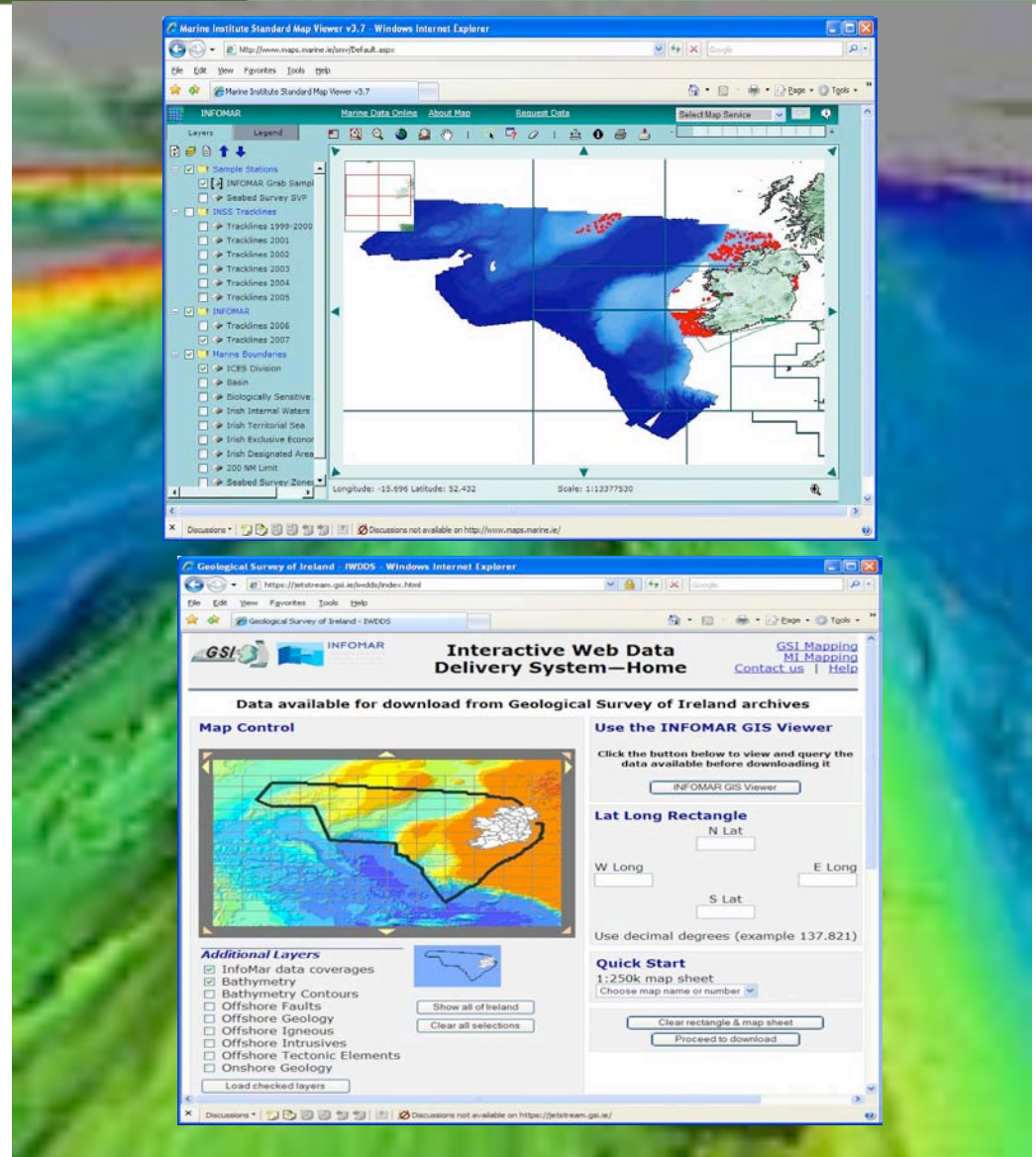
Marine Irish Data Atlas - CMRC

- Rich source of Marine and Coastal information
 - Data and information from over 30 organisations
 - 115 data layers / 76 downloadable
- Metadata, data and information held centrally
- Ongoing maintenance of content required
- Funding from NDP and NI EHS
- <http://mida.ucc.ie>



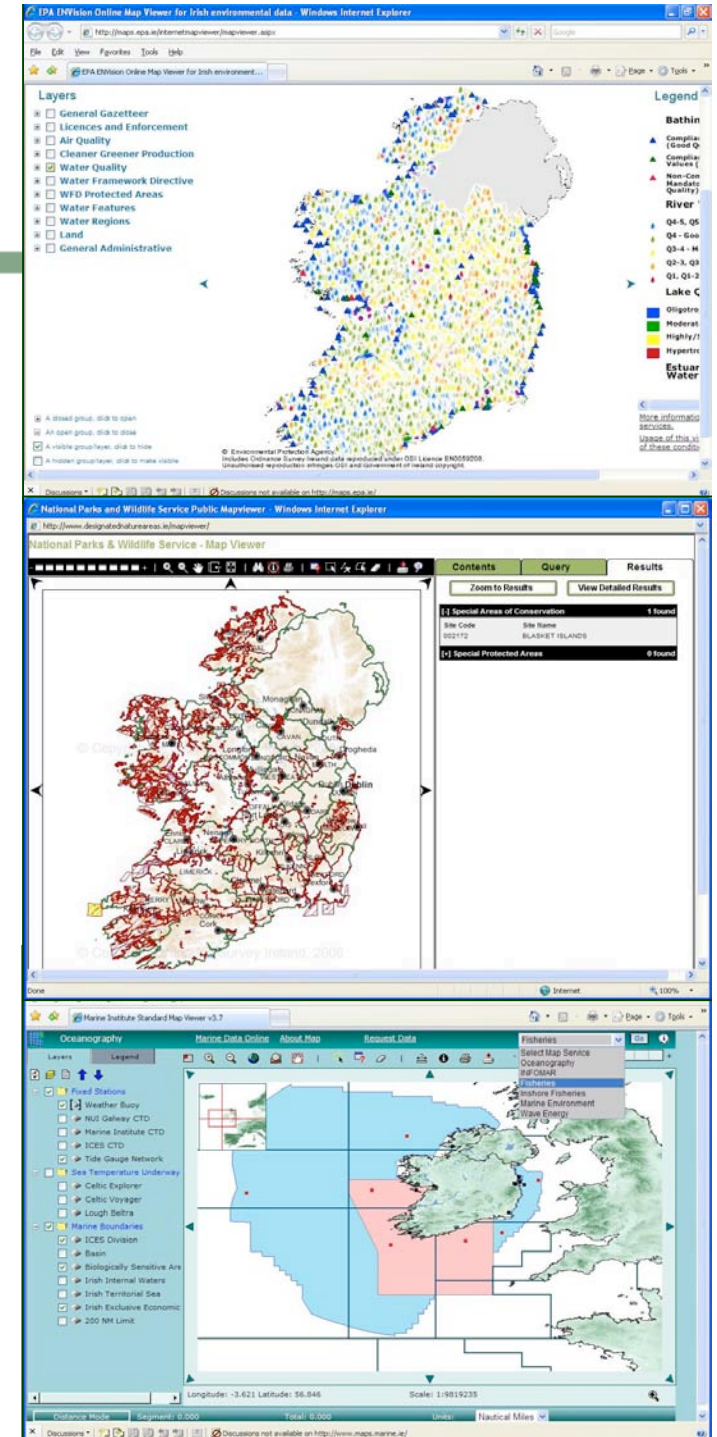
INFOMAR – Seabed Survey

- Very large seabed survey dataset
 - 550,000+ km²
- Two organisations
 - GSI & MI
- Sharing data, resources & technology
 - Catalogue, Viewer and Download
- www.infomar.ie



EPA / NPWS / MI

- EPA (Environmental Protection Agency)
 - Bathing water
 - Water quality
 - WFD
 - <http://maps.epa.ie/internetmapviewer/mapviewer.aspx>
- NPWS (National Parks & Wildlife Service)
 - Special Protection Areas
 - Natural Heritage Areas
 - Special Areas of Conservation
 - <http://www.npws.ie/en/MapsData/>
- Marine Institute
 - Oceanography
 - Fisheries
 - Marine Environment
 - Ocean Energy
 - HABs Monitoring
 - www.maps.marine.ie



Current Limitations...

- Finding marine data is not easy
- Cross-organisation mandate
 - Funding
 - Standards governance
- Non-targeted audiences

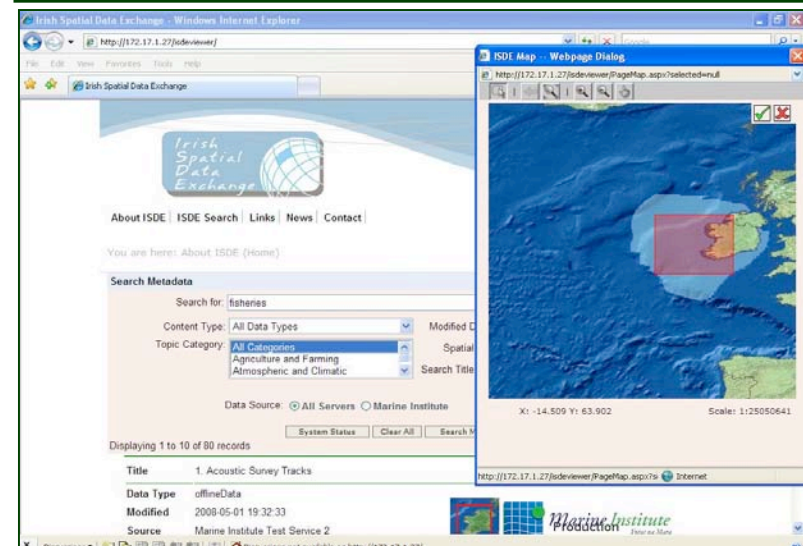
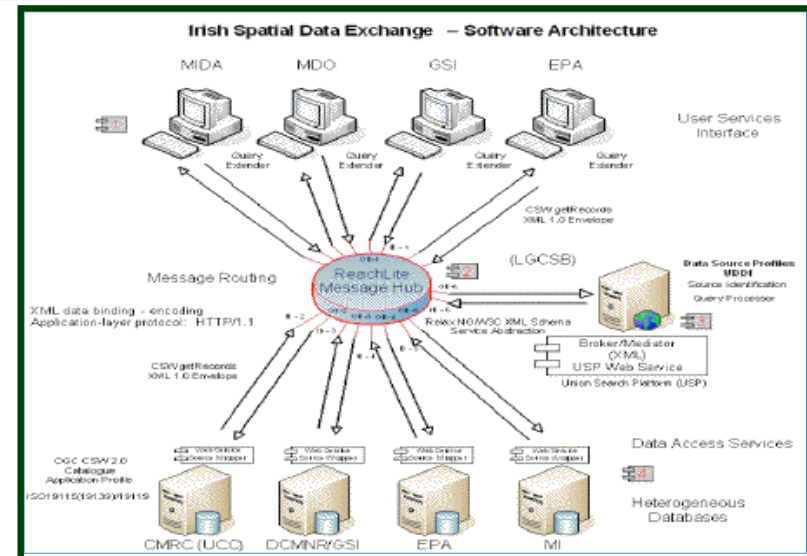


SeaChange Strategy 2013 Objectives

1. Develop a National Coastal and Marine Information Service
 - Including interagency information services targeting specific stakeholders
 - data management standards for new national strategic research programmes
 - emerging technologies that will support knowledge and information management objectives in the marine sector
2. Promote an effective marine knowledge infrastructure and policy at a national level
3. Ensure a high profile for marine data sets when data and information policy and legislation are being framed at national and international levels

See <http://www.marine.ie/home/SeaChange.htm>

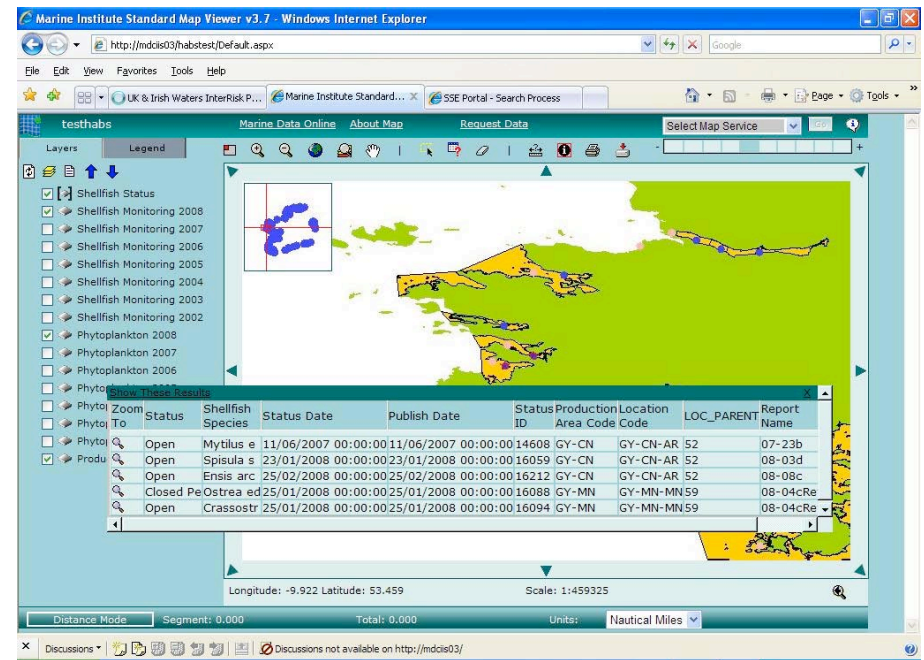
- Find data from multiple organisations
- Metadata maintained by data owner
- Search from any partners website
- Ongoing governance and funding tbd
 - Funded to date by SFI and MI
- A component of Ireland's SDI?



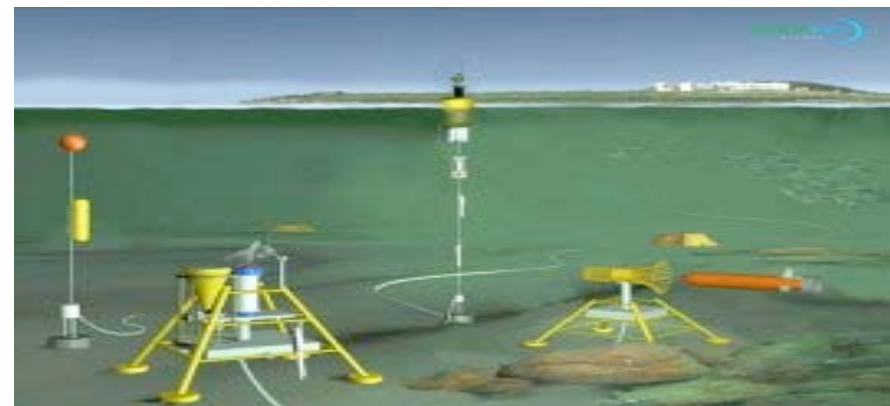


InterRisk

- GMES – HABs & Oil Spills
- Distributed data sources
 - 15 partners
- Reuse and integration of services
- Services reused by multiple clients / portals
- <http://interrisk.nerisc.no/>



- Real-time sensor network
- Advanced visualisation & analytics
- Collaboration between Marine Institute and IBM



What are we doing...

- ISDE to make data easy to find
- OGC data services to allow reuse of services
- SeaChange for guidelines and standards
- Investigate new technologies for data analysis and presentation

Future Challenges and Opportunities

- INSPIRE - operational SDI
- New data-generating programmes
 - Seabed mapping programmes
 - Cabled sensor networks
 - Ocean Circulation & Climate Change Modeling
- SeaChange strategy
 - Provide targeted data services for policy research measure
- Integrated federated marine data services
 - Semantic inter-op (ICAN)

