



National Science Foundation
WHERE DISCOVERIES BEGIN

The International Coastal Atlas Network (ICAN) Review and Outcomes of ICAN 1 and 2

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European Environment Agency



Marine Institute
Foras na Mara



UCC
University College Cork

Complementary Projects



coastalatlant.net

Oregon Coastal Atlas Home

OREGON COASTAL ATLAS

Sunday May 23, 104

HOME MAPS TOOLS LEARN SEARCH Site Index:

To join our news list please send a blank email to: CoastalAtlas_News_subscribe@yahoo.com

Welcome to Oregon's Coastal Atlas

We hope you enjoy your visit to our website! The Oregon Coastal Atlas is a multi-group project that has the ambitious goal of being a useful resource for the various audiences that make up the management constituency of the Oregon Coastal Zone. The project is a depot for traditional and digital information which can be used to inform decision-making relating to the Oregon Coastal Zone. We provide background information for different coastal systems, access to interactive mapping, online geospatial analysis tools, and direct download access to various planning and natural resource data sets relating to coastal zone management.

Guide to Coastal Atlas Resources

<p>Maps For users who want to get familiar with the landscape</p> <p>The Coastal Atlas includes an Internet Map Server which can be used by visitors to view a variety of standard, preformatted and commonly requested base</p>	<p>Tools For Users who want to apply what they know</p> <p>Tools help users accomplish common tasks. In the case of Coastal Atlas tools we've assembled links to a variety of tools designed to help different types of coastal users answer</p>	<p>Learn For Users who want to know a little more</p> <p>This section contains simple introductory information for a range of coastal geographic settings (Estuaries, Sandy Shores, Rocky Shores, Ocean Areas), coastal topics</p>	<p>Search For Users who know they want something specific</p> <p>The heart of the Coastal Atlas is an archive of geospatial data collected over the years by various program partners of the Oregon Ocean-Coastal</p>
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mida.ucc.ie

MIDA - Marine Irish Digital Atlas - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://mida.ucc.ie/pages/atlas.php?theme=Protected+Areas&theme=60cb*

MIDA HOME

- Management
- Coastline
- Biosphere Reserves
- Marine Nature Reserves
- National Parks
- Nature Reserves
- Areas of Outstanding Natural Beauty (AONBs)
- Areas of Special Scientific Interest (ASSIs)
- Natural Heritage Areas (Rep. Ireland)

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add/remove Layer

information zoom to links search

Navigational Beacons

Unlighted beacon in Baltimore Co. Cork, overlooking the narrow channel between the mainland and Sherkin island

Beacons are structures that are permanently fixed to the seabed or land. They range from structures such as lighthouses, to single-pile poles. Most beacons have lateral or non-lateral aids attached to them. Lighted and unlighted beacons can be found around the coastline.

Done

Intellectual Merit - Workshops 1 & 2

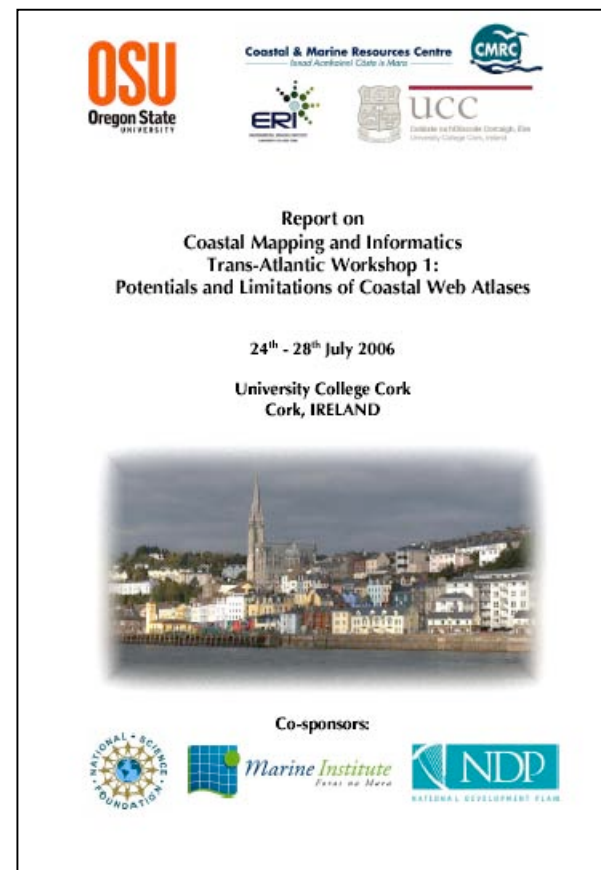


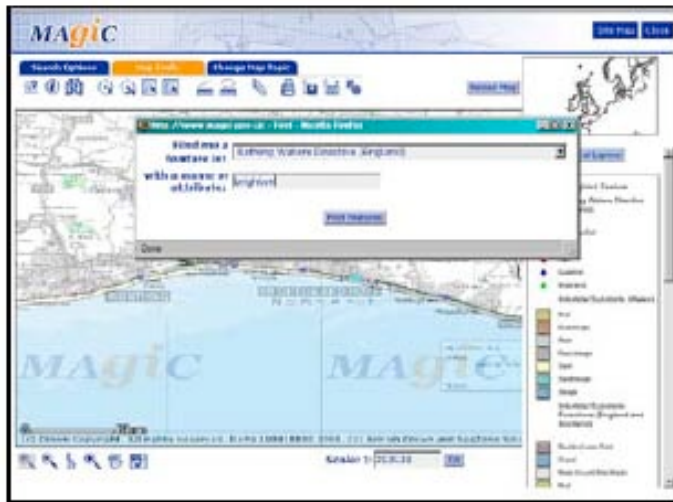
- Significant capacity, varying approaches
- Issues of regional governance, coordination
- Little done to compile/assess efforts
- Best practices?
- Widespread solutions needed
 - Access to and documentation of data
 - Integration of tools
 - Decision support for coastal mgmt via atlases
 - “Semantic interoperability”



Aims of Workshop 1, Cork

- To create and strengthen **relationships** between experts in the field in marine and coastal mapping in North America and Europe
- To identify **state of the art** approaches to coastal mapping and informatics

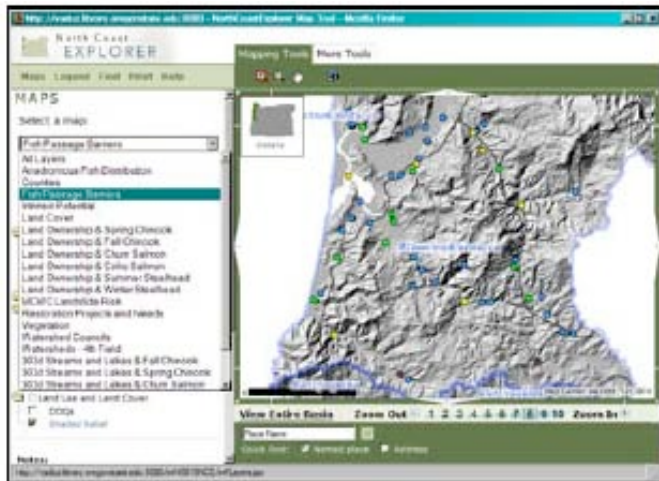




Magic UK



De Kustas, Belgium



North Coast Explorer, USA



Oregon Coastal Atlas, USA



MIDA, Ireland

Key Workshop 1 Recommendations



- Consult with the **user** community
- Support **dissemination** of knowledge and experience
- Provide input to **policy** development
- Devote resources to proper **cataloguing** – use data standards and specifications
- Seek to maintain & **update** systems
- Employ efficient, flexible and easy to use **data management** systems
- Evaluate atlas **impact**
- Offer analysis **tools**
- Acknowledge the importance of ongoing **promotion**
- Build on lessons learned and implement **best practice**
- Implement **ontologies** to improve data discovery, sharing & integration
- Be innovative in approaches to **funding**

Aims and Outcomes of Workshop 2, Corvallis

- Improve searches between atlases
 - CVs and ontologies
 - **Marine Metadata Interoperability**
- Semantic interoperability
- Linkages to use cases, communities
- Proof-of-concept ontologies & web-based demo prototype
- Large, collaborative funding proposals



Report on Coastal Mapping and Informatics
Trans-Atlantic Workshop 2:
Coastal Atlas Interoperability

16th - 20th July 2007

Oregon State University
Corvallis, Oregon, USA



Co-sponsors:



Initial Participants in ICAN (thus far)



- [CMRC, University College Cork, Ireland](#)
- [African Marine Atlas Group](#)
- [British Oceanographic Data Centre, UK](#)
- [Co-ordination Centre for ICZM, Belgium](#)
- [Department of Marine, Ireland](#)
- [Environment & Heritage Service, Northern Ireland, UK](#)
- [European Environment Agency, Denmark](#)
- [Flanders Marine Institute, Belgium](#)
- [Geological Survey of Ireland](#)
- [Marine Institute, Ireland](#)
- [Maritime & Coastguard Agency, UK](#)
- [Strangford Lough Management Committee, Northern Ireland, UK](#)
- [Ulster Museum, Northern Ireland, UK](#)
- [University Paul Cezanne, France](#)
- [University of Ulster, Northern Ireland, UK](#)

- [Geosciences Department, Oregon State University, USA](#)
- [California Coastal Commission, USA](#)
- [Institute for Natural Resources, Oregon State University, USA](#)
- [Geography Department, University of Washington, USA](#)
- [Marine Metadata Interoperability initiative](#)
- [Memorial University, Newfoundland, Canada](#)
- [NOAA Coastal Services Center, South Carolina, USA](#)
- [Virginia Institute of Marine Science, USA](#)
- [San Diego Supercomputer Center, California, USA](#)
- [Scripps Institution of Oceanography, California, USA](#)
- [Oregon Coastal Management Program, USA](#)

International Coastal Atlas Network (ICAN)



- **Strategic Aims**

- Share experiences and find common solutions to coastal web atlas development
- Ensure maximum relevance and added value for users, benefits to participating nations' CZM programs
- Globally integrate and interoperate among locally-maintained atlases
- Inform regional decision- and policy-making across several themes
 - Climate change - coastal vulnerability
 - Coastal hazards
 - Population pressures
 - Marine spatial planning
 - Resource availability and exploitation
 - Coastal governance (boundaries, protected areas, etc.)



ICAN for the European Atlas of the Seas

Towards a future Maritime Policy for the Union: A European Vision for the Seas and Oceans



an all-embracing maritime policy aimed at developing a dynamic maritime economy in harmony with the marine environment, supported by sound marine scientific research and technology, which allows human beings to continue to reap the rich harvest from the ocean in a sustainable manner.

Joe Borg, EU Commissioner, January 2005.



Maritime Affairs



ICAN Strategic Directions



- ***Supra-national and federated atlases***
- ***How can ICAN assist, inform, facilitate?***
 - ***Exhibit atlas interoperability proof-of-concept (Ned)***
- ***What institutional processes can foster federated atlas development?***
- ***Formalize ICAN governance structure***
- ***Future directions of and funding for ICAN***
- ***Inform/attract larger community of stakeholders***
- ***What ontologies/mappings can be shared?***
- ***Information needs for European atlas, U.S. federated atlases***
 - ***how to update, maintain?***

