



International Coastal Atlas Network (ICAN) ICAN-Great Lakes 2010 Workshop

September 13-15, 2010
Pyle Center
University of Wisconsin – Madison
Madison, Wisconsin USA

Background: A coastal web atlas (CWA) has been defined by members of the International Coastal Atlas Network (ICAN) as a collection of digital maps and datasets with supplementary tables, illustrations and information that systematically illustrate the coast, oftentimes with cartographic and decision support tools, all of which are accessible via the Internet. CWA's are online information resources that can help build collaborative relationships within and across state, regional, national, and international areas to foster more effective management of coastal and ocean resources and activities.

Workshop Purpose: The ICAN-Great Lakes 2010 meeting will bring together key professionals who are developing, maintaining, and/or evaluating a CWA for their specific political area or region. The meeting location in Madison, Wisconsin allows a focus on the benefits of networked CWAs for Great Lakes management and restoration. Four additional and important emphases of the meeting are: (1) outreach to emerging CWAs; (2) understanding how CWAs relate to broader initiatives such as the Digital Coast and the Integrated Ocean Observing System; (3) training elements so that participants take away tangible products/knowledge; and (4) continuation of internal ICAN organizational business.

Meeting Objectives:

- Participants share knowledge of existing programs, projects, and capabilities for CWAs
- Participants learn about existing and emerging use cases for networked CWAs
- Participants identify potential regional and topical networks of CWAs
- Participants learn about technical best practices for CWAs
- Participants learn about ICAN and how it may benefit their CWA activities
- Participants learn about other national and regional activities that can support or benefit from CWAs

Meeting Outputs: Attendees gain knowledge about:

- developing and evaluating CWAs
- benefits and use of CWAs
- current members of ICAN
- opportunities for how CWAs can join ICAN

Participants: 30-50 (limit: 100)

Workshop Co-Chairs: Dawn Wright, Oregon State University and Tony LaVoi, NOAA Coastal Services Center

Program Co-Chairs: David Hart, University of Wisconsin and Roger Gauthier, Great Lakes Commission

Local Arrangements: David Hart, University of Wisconsin

Program Committee:

Nate Booth, U.S. Geological Survey

Roger Gauthier, Great Lakes Commission

Tanya Haddad, Oregon Coastal Management

David Hart, University of Wisconsin Sea Grant

Brian Huberty, U.S. Fish and Wildlife Service

Tony LaVoi, NOAA, Coastal Services Center

Kathy Taylor, Washington Department of Ecology

Dawn Wright, Oregon State University



International Coastal Atlas Network (ICAN) ICAN-Great Lakes 2010 Program

Day One - Afternoon

Coastal Web Atlases and the International Coastal Atlas Network

- Welcome to Madison, meeting overview.
- Define a CWA and provide an overview of ICAN.
- Present recent surveys of coastal atlases.
- Examine methods to design and evaluate coastal atlases.
- Showcase robust CWAs (Oregon, Washington, Virginia, Ohio).

Day Two - Morning

Use Cases for Networked Coastal Web Atlases

- Provide an overview of use cases for geospatial interoperability.
- Examine an existing coastal erosion use case for CWAs.
- Explore emerging use cases for networked CWAs such as marine spatial planning and regional ocean and coastal governance.
- Brainstorm the range of possible use cases for individual/linked CWAs.

Day Two - Afternoon

Promoting Coastal Atlas Networks

- Describe how CWAs relate to broader regional and national initiatives, such as the Digital Coast and the Integrated Ocean Observing System.
- Present lessons learned from the West Coast Atlas Workshop.
- Examine the benefits of integrating Great Lakes data from distributed sources.
- Breakout to explore specific regional/topical coastal atlas networks.

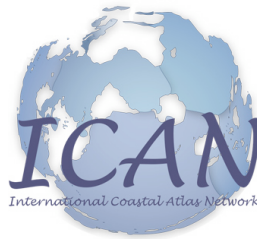
Day Three - Morning

Technical Issues facing Coastal Web Atlases

- Hands-on Training (limit: 40). Suggested topic: Creating robust web services and catalogs for coastal web atlases. Instructor: Tom Kralidis, Environment Canada

Day Three - Afternoon

ICAN Business Meeting

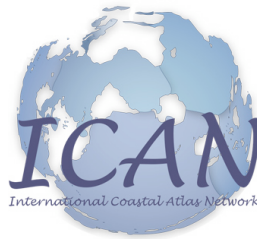


Day One: Coastal Web Atlases and the International Coastal Atlas Network

Day of Week and Time	Session Topic	Presenters/ Coordinators (To-Do)
Morning	Arrival of Participants, Registration	
1:00 PM	<p>Welcome <u>Objective:</u> Orient participants to venue and provide participants with context for workshop</p> <ul style="list-style-type: none"> • David welcomes as local host • Roger welcomes as Great Lakes region coordinator • David leads introductions of participants • Dawn gives broad context for activities and provides pep talk • Dawn reviews agenda and objectives for the workshop 	Dawn Wright, David Hart, Roger Gauthier
1:15 PM	<p>ICAN Overview <u>Objective:</u> Provide participants an overview of CWA and ICAN to set context for overall workshop</p> <ul style="list-style-type: none"> • Dawn provides background on ICAN – past workshops, accomplishments to date • Discussion 	Dawn Wright
1:45 PM	<p>Survey of Coastal Web Atlases <u>Objective:</u> Report on recent surveys about CWA activities</p> <ul style="list-style-type: none"> • Findings from the U.S. Atlas Inventory • Survey of Canadian CWAs 	Gabe Sataloff, NOAA Coastal Services Center TBD (Canada)
2:15 PM	<p>Design and Evaluation of Coastal Web Atlases <u>Objective:</u> Report on a structured process to design and evaluate a CWA</p> <ul style="list-style-type: none"> • Wisconsin Coastal Atlas LOGIC model 	David Hart, Stephen Ventura, Pam Kylstra, NOAA Coastal Services Center



2:45 PM	Break	
3:00 PM	<p>Coastal Web Atlases in the Americas</p> <p><u>Objective:</u> Participants gain an understanding of current coastal atlas activities within the Americas</p> <ul style="list-style-type: none"> • Oregon Coastal Atlas • Washington Coastal Atlas • Virginia Coastal GEMS • Ohio Coastal Atlas • Discussion 	Tanya Haddad, Kathy Taylor, Marcia Berman, Brian George, <i>Ohio Coastal Management Program</i>
4:45 PM	<p>Recap Day 1 and review agenda for Day 2</p> <p><u>Objective:</u> Provide a high-level recap of day one and an overview of day two</p>	Dawn Wright
5:00 PM	Adjourn	
6:00 PM	<p>Taste of the Town</p> <p>Local geospatial professionals lead small groups to selected downtown Madison restaurants</p>	



Day Two: Use Cases for Networked Coastal Web Atlases/Promoting Coastal Atlas Networks

Day of Week and Time	Session Topic	Presenter/ Coordinator/ To-Do
8:00 AM	Arrival of Participants: Coffee and Tea	
8:30 AM	<p>Welcome to Day Two <u>Objective:</u> Orient participants to agenda and objectives for day two</p>	Dawn Wright, David Hart, Tony LaVoi
8:45 AM	<p>An Overview of Use Cases for Geospatial Interoperability <u>Objective:</u> Help participants understand how to develop a sound use case for networked CWAs</p> <ul style="list-style-type: none"> • What is a use case? How do they differ from a needs assessment or a return-on-investment study? 	David Arctur, <i>Open Geospatial Consortium</i>
9:15 AM	<p>A Coastal Erosion Use Case for Coastal Atlases <u>Objective:</u> Demonstrate how CWAs can support management of coastal erosion hazards.</p> <ul style="list-style-type: none"> • ICAN Coastal Erosion Use Case • Building the Case for a Wisconsin Coastal Atlas 	Tanya Haddad, Marcia Berman, David Hart
9:45 AM	<p>Emerging Use Cases for Networked CWAs <u>Objective:</u> Explore emerging use cases for networked atlases</p> <ul style="list-style-type: none"> • Regional Ocean and Coastal Governance • Marine Spatial Planning • Discussion, Q&A 	Kathleen Leyden, <i>Maine Coastal Management Program</i>
10:15 AM	Break	



10:30 AM	<p>Breakout: Brainstorming Use Cases for Networked CWAs</p> <p><u>Objective:</u> Participants brainstorm ideas for specific use cases for CWAs in breakout sessions</p> <ul style="list-style-type: none"> • Marine Spatial Planning – Wind Energy Siting • Evaluating Great Lakes Restoration • Others as needed 	
11:30 AM	<p>Use Case Discussion Reports</p> <p>Breakout groups report back</p>	
12:00 noon	Lunch	
1:00 PM	<p>CWAs and the Digital Coast Initiative</p> <p><u>Objective:</u> Discuss how networked atlases can support the Digital Coast Initiative and vice versa</p>	Tony LaVoi, Josh Murphy, <i>NOAA Coastal Services Center</i>
1:30 PM	<p>CWAs and Integrated Ocean Observing Systems</p> <p><u>Objective:</u> Discuss how networked atlases can support the societal objectives of Integrated Ocean Observing Systems</p>	Tom Shyka, <i>Gulf of Maine Research Institute</i>
2:00 PM	<p>Promoting Regional Coastal Atlas Networks</p> <p><u>Objective:</u> Present lessons learned from the West Coast Atlas Network meeting in 2009.</p> <ul style="list-style-type: none"> • Discussion: How can one become an ICAN node? 	Kathy Taylor, Dawn Wright, Liz O'Day, Tanya Haddad, John Helly
2:30 PM	Break	



2:45 PM	<p>Integrating Great Lakes Data from Distributed Sources <u>Objective:</u> Present the rationale for a Great Lakes coastal web atlas</p> <ul style="list-style-type: none"> • Provide an overview of the Great Lakes Regional Data Exchange • Demonstrated the Great Lakes Information Network Map Viewer • Demonstrate integration of Great Lakes map data from distributed sources • Discuss the importance of two-way sharing of interoperable web mapping services • Examine uses for integrated Great Lakes data ranging from supporting regional initiatives such as the Great Lakes Restoration Initiative and Great Lakes Compact to rethinking the Great Lakes Environmental Atlas 	Roger Gauthier, David Hart
3:30 PM	<p>Breakout: Promoting Coastal Atlas Networks <u>Objective:</u> Participants brainstorm the steps needed to build coastal atlas networks in breakout sessions</p> <ul style="list-style-type: none"> • Breakouts by region and/or topic 	
4:30 PM	<p>Coastal Atlas Networks Discussion Reports</p> <p>Breakout groups report back</p>	
5:00 PM	<p>Recap and Agenda Review <u>Objective:</u> Provide a high-level recap of day two and an overview of hands-on training on day three</p>	Dawn Wright, David Hart
5:15 PM	Adjourn	
6:00 PM	Social Event or Dinner on Your Own	



Day Three: Technical Issues facing Coastal Web Atlases/ICAN Business Meeting

Day of Week and Time	Session Topic	Presenter/ Coordinator/ To-Do
8:00 AM	<p>Hands-on Training for Coastal Web Atlases (limit: 40)</p> <p>Creating Robust Web Services and Catalogs for Coastal Web Atlases</p> <ul style="list-style-type: none"> • Material from the Mapserver OGC Web Services Workshop (http://ms-ogc-workshop.maptools.org/) • Catalog Services for the Web • Geospatial Catalogs (GeoNetwork and/or ESRI ArcGIS Server Geoportal Extension) 	Tom Kralidis, <i>Environment Canada</i>
Noon	Lunch	
1:00 PM	ICAN Business Meeting	
5:00 PM	Adjourn	