

How Open Geoportal Supports Development of a Coastal Spatial Data Infrastructure

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with

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Promoting coastal web atlases worldwide for conservation, management, and governance.

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What is the International Coastal Atlas Network (ICAN)?

Submitted by dawn on 6 March 2013 - 3:51am

Read more Español

Español =

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North Carolina Coastal Atlas Joins ICAN!

Submitted by dawn on 29 July 2013 - 8:40am

ICAN is very pleased to welcome its latest member, the North (www.nccoastalatlas.org). From their site: "The North Carolina collaborative effort to enable access to coastal data and inform

International Coastal Atlas Network http://icoastalatlas.net/

ICAN aims to be a global reference for the development of coastal web atlases.



What is a Coastal Web Atlas?

 A Coastal Web Atlas is 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, and all of which are accessible via the Internet.

-- O'Dea et al., 2007

More simply stated, a CWA is a web resource designed to promote data sharing and decision support for coastal management.

wca

Wisconsin Coastal Atlas

Home Maps Catalog Tools Learn About

Home

The Wisconsin Coastal Atlas is an innovative web resource that helps people better understand coastal issues, share coastal data, and inform decision-making about sustainable use of the Great Lakes. It is intended for use by coastal resource managers, planners, researchers, educators, tourists, citizen scientists, and coastal residents. The atlas serves as a gateway to spatial decision support tools relevant to Great Lakes management and provides access to educational resources about coastal issues in Wisconsin. The initial focus is on coastal hazards, but new themes will be added over time. The atlas is built with an open architecture that allows easy addition of new maps, data, and tools. Initial development of the Wisconsin Coastal Atlas began in February 2010 with funding from the University of Wisconsin Sea Grant College Program.

Maps



A gallery of interactive web mapping interfaces, allowing users to explore the many coastal issues facing Wisconsin.

Go to maps...

Catalog



A path to discover, assess, and download geospatial data relevant to the Great Lakes.

Go to catalog ...

Tools



A gateway to decisionsupport tools relevant to coastal management.

Go to tools ...

Learn



Information about Great Lakes coastal issues and place-based learning.

Go to learn...

Wisconsin Coastal Atlas http://wicoastalatlas.net/



Map Module

- Map Gallery
 - web mapping applications for a variety of coastal issues
 - demonstrate the range of web mapping technologies
- Links to other web mapping apps relevant to Great Lakes issues





Catalog Module



- Make it easier to find and acquire coastal GIS data
- Test GeoCatalog software
- Network distributed catalogs





Tools Module

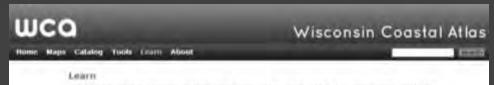
- Build spatial decision support tools that leverage the WCA map and catalog modules
- Apply social science methods to build more effective decision support tools.







Learn Module



The learn section of the Wisconson Coastal Atlas provides information about Great Lases markle issues and plane hased education.

Paddle-to-the-Sea, Google Lit Trip



Pajde-to-the-See, a picture book written and stustment by stoling C Holling, teaches children and adults able about the natural swind cultural worders of the Const Lakes. If

remove brook awar decades wher its retail publication. Follow Teadille-lu-time Sea", a carreng of a young Juden boy in a carear, on a journey remough at the Great Lakes. The Georgie Earth application shows the part of fraction's poursey to the sea.

(automary, 60t), file: Google Lit. Trops 3

Up River Quest, ARIS



In up River, players can their Prices or Paid to "estemat" with versal characters located at Chree lacations in the St. Louise River topoury - Carea Park, Ser's Point and Chreek Philip Produces found in shift around the estiliary. Along the way, you become popularly interested or the estilary.

explored tourst attractions, industrial alter and least-and historis. To complement these rest-world experiences, you also excess get located acoves and admire we your mobile device.

(ARIS damo, how to get ARIS, up like: wood ?

Big Two-Hearted River, Google Lit Trip



The dig Two-Hearted fliver by Ernest Hemingway was influtly published in 1925 and records a cout fishing trip near literary. Michigan in the eastern Upper

Penimula. This Google Earth application mens the sequence of happine destinated in the issue and weaves source on stream scolegy, emonitory, and water resource management into the spatial carreline.

(summary, iON, He. Goodle Lt. Trips.)

Barker's Island Quest, ARIS



In the Barker's Island Quest, players use their drome or and to sharped with virtual characters located at the headquarters of the Like Sugerior National Estuaria-Research Reserve in Superior.

Witcomer. Your "spect" is to help a stranded stop captain get back on the librarier. Mong the way, you figure out the origins of Barker's latent and how people and witcher that make use of the sland and sort-conding estuary.

(ABIS demo, bow to get ASIS)

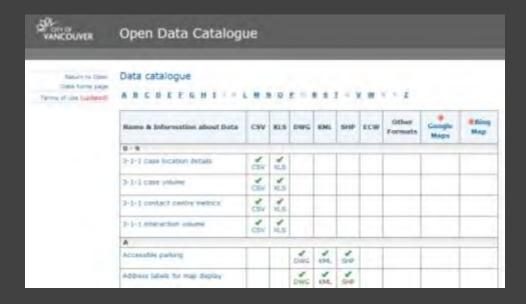
- Learn about coastal issues and places
- A repository for placebased learning
- Provide guidance on building a coastal spatial data infrastructure



WCA Catalog Components

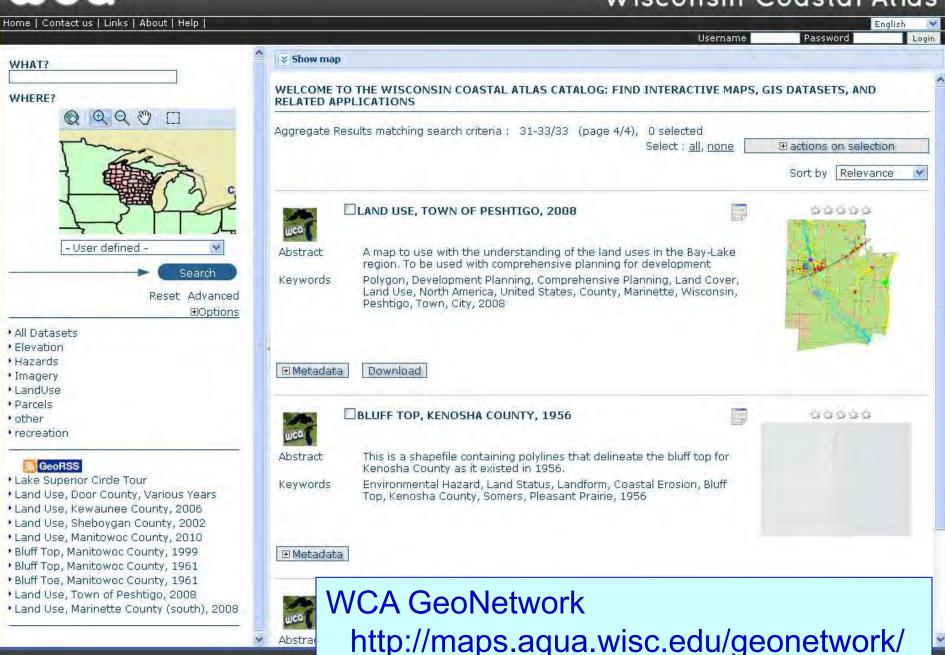
Layers	500	KHI.	KMZ
Beaches, Great Lakes, Wisconsin			0
Bike Routes, Coastal Counties, Wisconsin			0
Bluff Toe, Kenosha County, 1956			
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Bluff Top, Kenosha County, 1956			
Bluff Top. Kenusha County, 2000	0		
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Bluff Toe, Racine County, 2000			
Bluff Top, Racine County, 1956			
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Bluff Toe, Milwaukee County, 1956	0		
Bluff Toe, Milwaukee County, 2000	0		
Bluff Top, Milwaukee County, 1956			
Bluff Top, Milwaukee County, 2000			
Bluff Toe, Ozaukee County, 1956			
Bluff Toe, Ozaukee County, 1999	-		
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Bluff Top, Ozauket County, 1999	٠		
Bluff Toe, Sheboygan County, 1961	0		
Bluff Toe, Sheboygan County, 1999			
Bluff Top, Sheboygan County, 1951			
Bluff Top, Sheboygan County, 1999			

- Catalog list modeled after City of Vancouver, BC Open Data Catalogue (http://data.vancouver.ca/)
- 57 datasets in SHP and KML formats





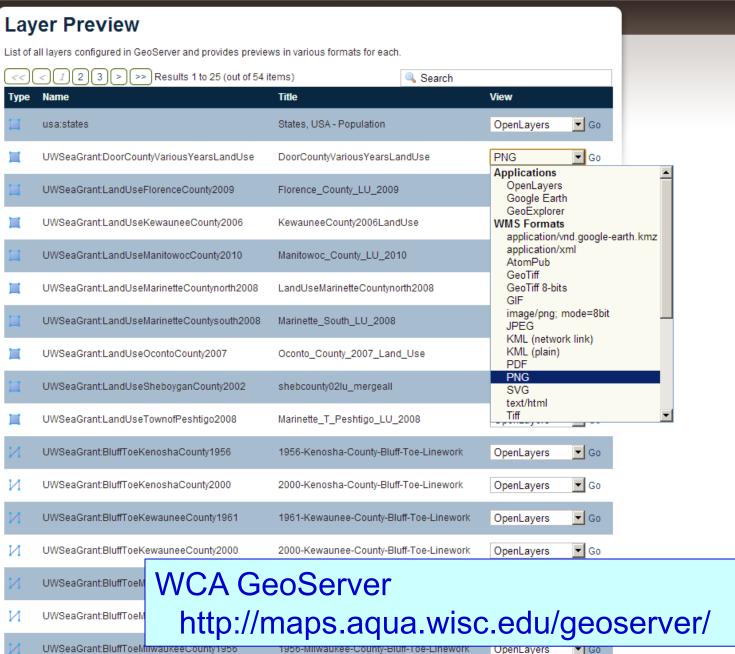
Wisconsin Coastal Atlas



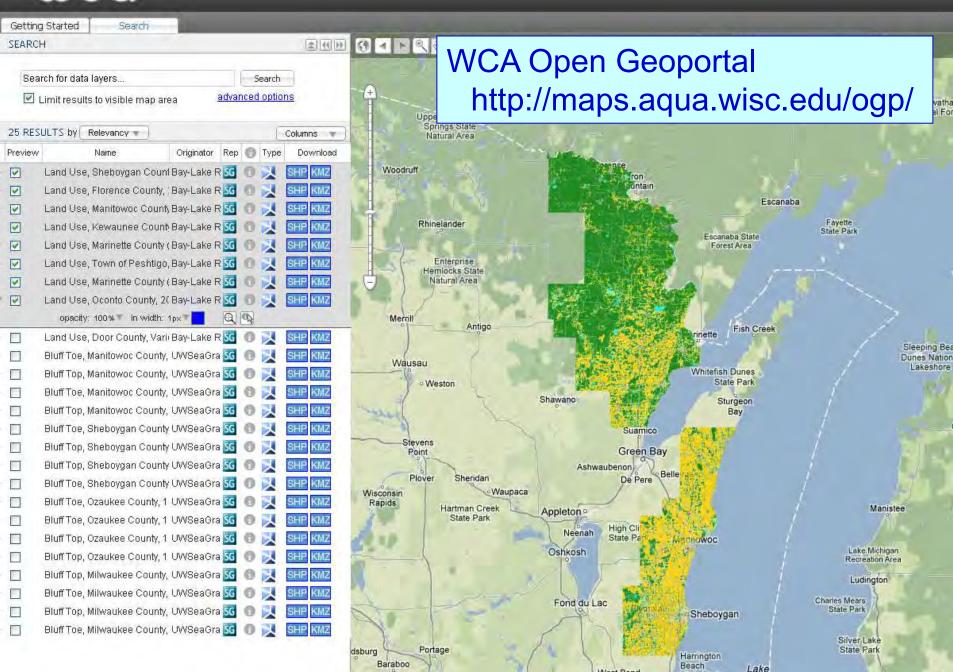
Powered by OPENGEO

Username Password Remember me Login









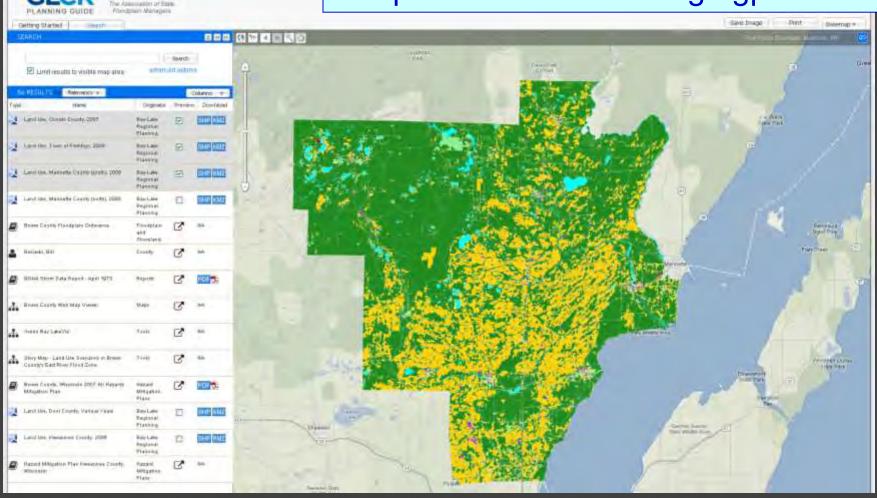
West Bend





OpenGeoPortal

ASFPM Open Geoportal http://www.floodatlas.org/ogp/demo/





WCA Open Geoportal – 3 Bullets

 Upgrades/support in a student employment dominated environment.



WCA Open Geoportal – 3 Bullets

- Upgrades/support in a student employment dominated environment.
- Filtered harvesting.



WCA Open Geoportal – 3 Bullets

- Upgrades/support in a student employment dominated environment.
- Filtered harvesting.
- A gallery of OGP implementations

wca

Great Lakes Coastal GIS/Coastal Atlases



OH: Ohio Coastal Atlas



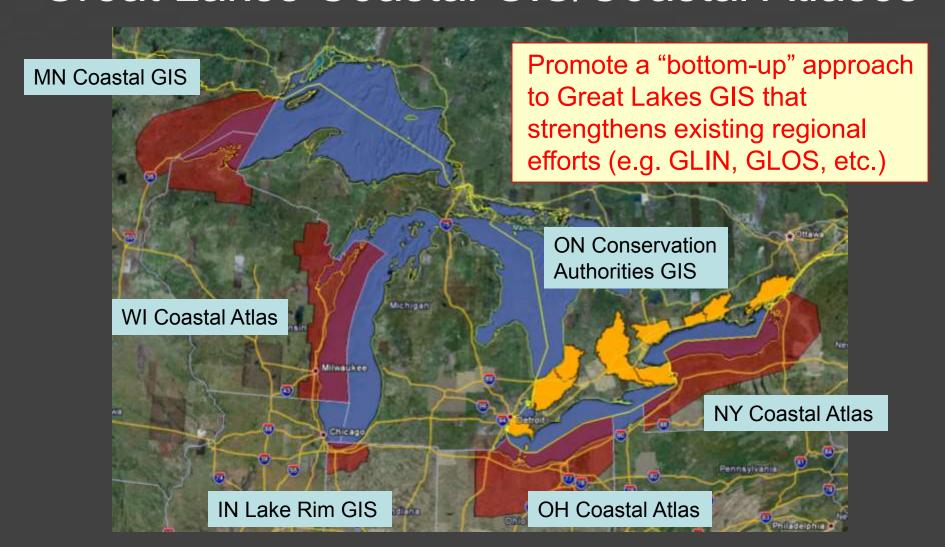


NY: Ocean & Great Lakes Atlas





Great Lakes Coastal GIS/Coastal Atlases





Promote a Regional Coastal Atlas Network

International Coastal Atlas Network-Great Lakes meeting

- Pyle Center Madison, WI September 13-15, 2010 52 attendees
- Support from USGS, NOAA CSC, Wisconsin DNR, ICAN



A presentation by Roger Gauthier at the meeting of the Great Lakes section of the International Coastal Atlas Network, Sept. 13-15, 2010, Madison, Wis.

- Showcased the impacts of mature CWAs
- Explored emerging use cases for networked CWAs
- Described how CWAs relate to broader initiatives
- Hands-on Training:
 Creating Robust Web
 Services and Catalogs for
 Coastal Web Atlases

http://www.aqua.wisc.edu/ican/

