



West Coast Coastal Atlas Followup Meeting 2010
Tues. Nov. 2, 1-4 PM PST

Participants: Allison Bailey (NOAA), Andy Lanier (OR), Becky Smyth (NOAA), Brad Mason (BC), Christina Cairns (NOAA), Cindy Hartmann Moore (NOAA), Dan Crowther (WA), Darby Veeck (WA), Dave Nicolson (BC), David Gann, David Harris (CA), Dawn Wright (OSU), Emilio Mayorga (PacOOS), Greg Benoit (CA), Jamie Carter (NOAA), Jennifer Hennessey (WA), Jeremiah Osborne-Gowey (CBI), Joanne Schmidt (AK), John Helly (CA), Jordan Gass (NOAA), Kathy Taylor (WA), Ken Pierce, Laura Engeman (CA), Mary Morris (BC), Michele Jacobi, Pam Rittelmeyer (CA), Paul Klarin (OR), Russell Moffitt, Susan Schlosser (CA), Tanya Haddad (OR), Tim Doherty (CA), Will McClintock (MarineMap)

Purposes:

- Receive updates on coastal atlas efforts on the West Coast of the U.S. and Canada.
- Review and refine 2009 workshop recommendations on next steps for regional and state coastal atlas efforts.
- Recommend additional goals and objectives for West Coast Coastal Atlas efforts.
- Assess potential for a regional data management system supporting the WCGA in meeting the requirements of the National Ocean Policy and CMSP Framework.

I. **Introduction** - Brief Recap of April 2009 Coastal Atlas Workshop, Purpose of followup meeting: *Kathy Taylor – See PPT.*

- This is the 2nd meeting of the West Coast Coastal Atlas Group. The 1st meeting was held in April 2009 in an effort to increase communication between the coastal atlas developers. Over 30 people attended that meeting, including state, federal, academic and NGO representatives from Alaska, Oregon, Washington, British Columbia, and California. The meeting concluded with a list of priority needs and a list of next steps. The purpose of this meeting is to update each other on current efforts, review the next steps from 2009, and assess regional data management needs.

II. Presentations (power points are linked on the website):

1. ICAN – September 2010 Wisconsin Meeting: *Dawn Wright* –
Meeting link: <http://www.aqua.wisc.edu/ican/Default.aspx?tabid=62>
 - Much of the focus of the ICAN meeting was on the Great Lakes so that they could move forward with regional plans. Additional topics included: coastal erosion, water quality, restoration, coastal and marine spatial planning (CMSP), and carbon cycling. Incorporating Ocean Observing System data was also discussed. ICAN is creating a formalized membership form on its website.
2. California Coastal Atlas (www.californiacoastalatlantlas.net) and State Agency Data Sharing System: *John Helly and Pam Rittelmeyer*
 - California Coastal Atlas uses cross-references to publish scientific data products. – *See PPT.*
 - The California Ocean Protection Council is developing a request for a scoping study to investigate what sort of data sharing system would best serve the needs of state agencies.
3. Oregon Coastal Atlas (<http://www.coastalatlantlas.net/>): *Tanya Haddad*
 - 2011 will be a year of upgrades for the Oregon Coastal Atlas. It is transitioning from an in-house data search tool to a true Catalog Service for Web (CSW). Tools will have improved visibility, plus there will be a new mapper tool developed by MarineMap for use in the public engagement aspects of the Territorial Sea amendment process in 2011 – *See PPT.*
4. Washington Coastal Atlas
(http://www.ecy.wa.gov/programs/sea/sma/atlas_home.html): *Kathy Taylor*
 - The redesign of the Washington Coastal Atlas is almost complete. The infrastructure has been upgraded and more tools have been added. More public data and water quality data have been added, as well as detailed coastal access data. – *See PPT.*
5. Alaska Coastal Atlas: *Joanne Schmidt*
 - There has not been any funding for an Alaska coastal atlas. They are currently assessing their state needs.
6. British Columbia Community Mapping Network and Western Canada Coastal Geospatial Data Management: *Brad Mason* – *See PPT.*
 - There are several data management systems:
 - i. Community Mapping Network (<http://cmnbc.ca/>): streamlines the collection and dissemination of marine data. Needs funding to update it.
 - ii. Livingatlas.org (<http://www.nativemaps.org/>): contains cultural data and multimedia products. Working with EcoTrust on this open source mapping tool. An example of a data product is a depiction of changes in logging over time.

- iii. British Columbia Marine Conservation Analysis (<http://bcmca.ca/>): contains ecological and human use data. It is going through quality control. Uses MARXAN to map priority conservation areas.
- iv. Other tools include: Burrard Inlet Environmental Action Program (<http://www.bieapfrempp.org/>), Forage Fish Atlas and Data System (http://cmnbc.ca/atlas_gallery/forage-fish-atlas-and-data-management-system), Eelgrass Inventory Application (http://cmnbc.ca/atlas_gallery/eelgrass-bed-mapping), Shorekeepers Monitoring Atlas (http://cmnbc.ca/atlas_gallery/shorekeepers-atlas), Spartina Invasive Species Mapping (http://cmnbc.ca/atlas_gallery/invasive-species-spartinaca), and Pacific Region Contaminants Atlas.

III. Status of Next Steps from 2009 Workshop

- 1. Completed steps from previous workshop
 - i. Identify “backbone data” and compile matrix of atlas data: *Kathy Taylor*
 - The workshop report (http://dusk.geo.orst.edu/ICAN_EEA/WestCoast/West_Coast_Atlasses_Workshop.pdf) has an overview of backbone data but the report is now out of date. It could be updated if there is a need.
 - ii. ICAN will host on its portal the workshop proceedings and a listserv for communication purposes among the atlas efforts. ICAN will also welcome additional atlas groups into its membership: *Tanya Haddad*
 - There is a listserv for the West Coast Coastal Atlases. Additional members are welcome and can sign up through the List administration page: http://listsmart.osl.state.or.us/mailman/listinfo/westcoast_coastalatlases
 - iii. Generate a short set of PowerPoint slides providing an overview of the West Coast Coastal Atlas Workshop and outcomes, create a West Coast Coastal Atlas listserv, create KML or KMZ files of footprint maps of all the West Coast coastal atlases, and write news items for both the ICAN and Marine Metadata Interoperability portals: *Tanya Haddad*
 - PowerPoint slides providing an overview of the West Coast Coastal Atlas Workshop and outcomes, a link to the west coast coastal atlas listserv, a link to KMZ files of West Coast Coastal Atlas spatial footprints, and news items for both the ICAN and Marine Metadata Interoperability portals are on the workshop website: <http://ican.science.oregonstate.edu/westcoast>. Currently there are over 80 members of the listserv.

- iv. Organize a short WebEx meeting to report progress on identified tasks:
Christina Cairns

- This followup WebEx satisfies this step.

2. Remaining efforts

- i. Peer review process for coastal atlas data: *Christina Cairns*

- This task was deemed to still be important but waiting on how this data will be approved for use in state and regional CMSP efforts. Data can also be vetted through the West Coast Coastal Atlas listserv.

- ii. Coastal Atlas case studies: *Christina Cairns*

- Case studies may be identified within NOAA CSC's CMSP Toolkit. This idea was discussed at the Wisconsin ICAN meeting. CSC will follow up as the CMSP toolkit is developed.

- iii. Collaboration with the West Coast Governors' Agreement (WCGA) & the Pacific Coast Collaborative: *Jennifer Hennessey*

- This work is ongoing. The Regional Ocean Partnership Federal Funding Opportunity (FFO) presents possibilities for regional data sharing efforts. WCGA has scheduled meetings for development of proposals in collaboration with the WCGA in each of the following:
 - a. Nov. 12, 2010 – California
 - b. Nov. 15, 2010 – Oregon
 - c. Nov. 16, 2010 – Washington

The key for regional collaboration is to focus on the federal framework. The regional proposals are due December 10, 2010. The caveat is that funding is not yet secured.

- iv. Develop a common ontology catalog: *Dawn Wright*

- Discussions for a common ontology catalog are ongoing and tied to the development of the ICAN atlas prototype. Under this effort, “cookbooks” are being written for developers on how to share data and connect to atlases, providing data through “nodes”.

- v. ICAN will host on its portal a discussion forum for developers and summary lists of data and local atlas ontologies: *Dawn Wright*

- This is also tied to the atlas prototype effort. Discussion boards had to be shut down due to spamming. Jeremiah Osborne-Gowey suggested using Google Groups in the future for discussion boards.

- vi. Identify funding sources for IDIQ contracts for extending ShoreZone surveys to Oregon and California, NOAA contracts, and WCGA working groups specific to coastal atlases that could apply for funding.

- *Cindy Hartmann Moore*: The IDIQ contract that is in place for the Alaska ShoreZone survey can be expanded to Oregon and California if federal funding is identified. Much of the Alaska shoreline is imaged and mapped and more will be done by Summer

2011:

<http://alaskafisheries.noaa.gov/habitat/shorezone/szintro.htm>. –
LINK TO PPT

- *Becky Smyth*: NOAA currently does not have more funding for ShoreZone surveys, but through the IDIQ contract NOAA CSC can accept state funding so this is another avenue for potential funding.
- *Jennifer Hennessey*: The WCGA just approved its ACT work plans. There is no funding specifically for coastal atlases but there might be some overlap and funding may become available moving forward.

IV. Future Efforts

1. Additional steps not identified in workshop report
 - *Jeremiah Osborne-Gowey*: Data Basin presentation - *See PPT* (<http://databasin.org/about/sponsors-and-partners>). Data Basin is an online data access, mapping and analysis tool. Data Basin seeks to make its data sets easy to find and open access and to create user-friendly mapping tools. It is built on an ESRI platform so queries can be run. It contains user-generated data that is then peer-reviewed and contains metadata. Data Basin is thus “citizen science.” There are over 900 users.
2. Discuss support for a regional data portal
 - There is a Federal Funding Opportunity for \$20 million to support regional ocean partnerships and regional implementation of the federal framework for CMSP. The WCGA is crafting a proposal for the West Coast based on funding priorities expressed by the ACTs, conversations with tribes, and public meetings being held in each state. Discussion followed about developing a sub-proposal from the coastal atlases:
 1. Participants stressed the need to share data across political boundaries. The West Coast Coastal Atlas Network has data and various ways to display data, but needs to provide standardized information across the region with the ability to maintain data locally at the nodes.
 - a. Can existing portals be adapted instead of creating a new regional one?
 - b. A web portal could be created that links all of the different data systems.
 - c. Coordination opportunities with the Ocean Observing Systems (OOS’s) should be explored. It was noted that the formats and data sets of the groups (GIS vs. OOS) are different, but there is certainly room for collaboration.

- d. Cloud computing for serving data: is this an option? It is scalable and affordable, but might have some hidden costs attached. Also, it is vulnerable to commercial interests and might not be the best long-term solution.
2. Some participants stressed the need to secure long-term funding to ensure infrastructure longevity.
3. It was also suggested that oblique and ortho-imagery is an important priority for the region.

V. Next Steps

1. A meeting to discuss ideas for submitting a sub-proposal/project idea to the WCGA for FFO funding will be scheduled immediately.
2. A follow-up phone call will be scheduled in mid-2011 and another WebEx will be scheduled at the end of 2011 to continue the work of the group. Participants can also take advantage of upcoming conferences (GeoTools, IMCC, CZ 2011) to carry on these conversations.