

EcoAtlas Update for the California Wetland Monitoring Workgroup

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Today's discussion points

- Status update
 - EcoAtlas release
 - Portal development
- Monitoring Council presentation and Public release
- Related developments
- Priorities

EcoAtlas development and testing status

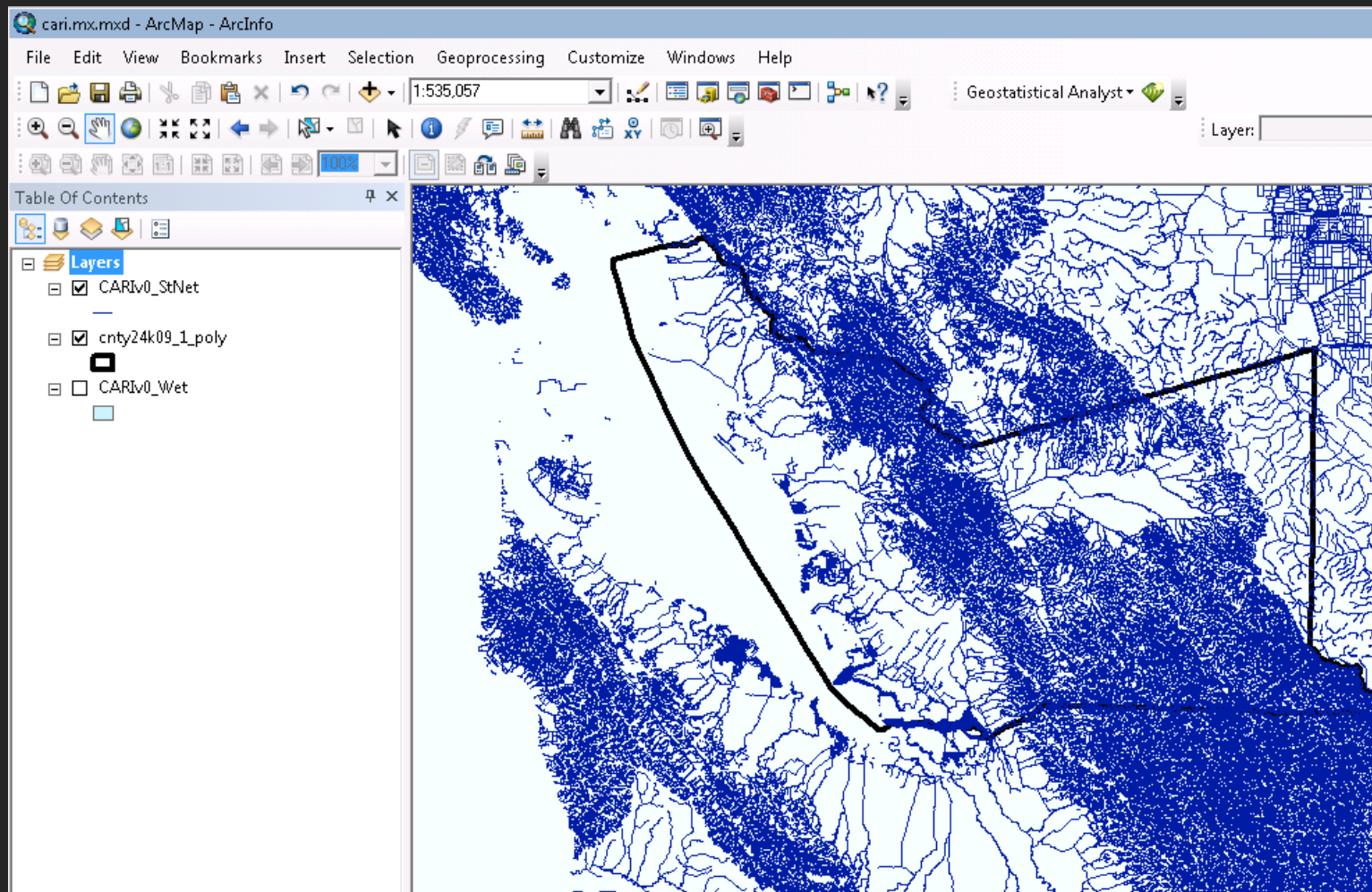
- 10 outside reviewers
- More than 150 comments received – *no show stoppers*
- 96 addressed
- Good performance

Landscape Profile Tool Performance benchmarking

- Goal is 5 seconds “web” time per query for dynamic spatial analysis
- Leveraging the power of Postgis vector and raster processing capabilities
- We are employing several optimization techniques including generalization and dicing (indexing)

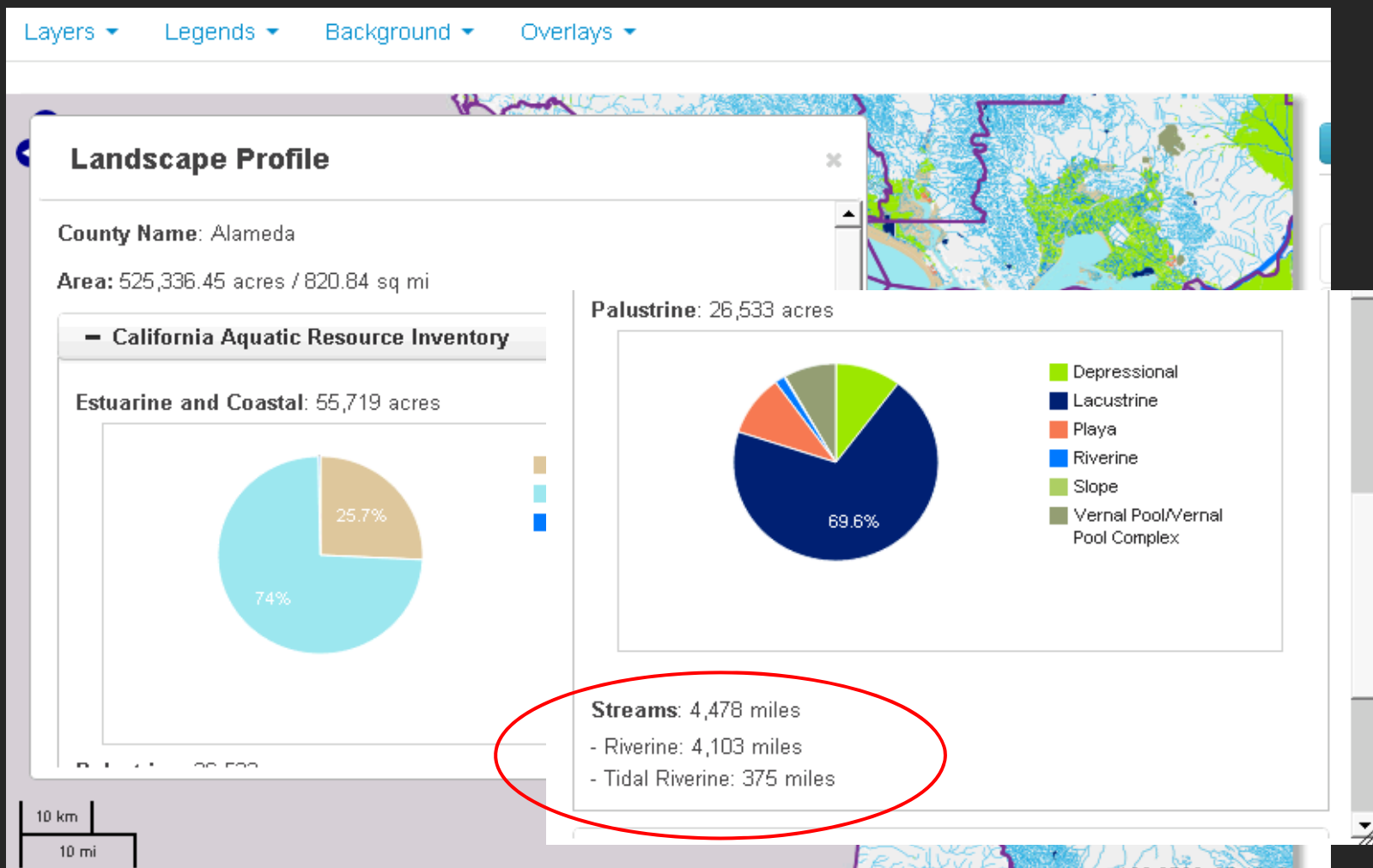
Arc10.0

- Multiple steps – preprocessing, CLIP operation, units conversion
- 45 seconds for CLIP operation



EcoAtlas performance

- 9 seconds to dynamically summarize and report CARI wetland (4 secs) *and* stream (5 secs) statistics
- GIS not required



Compare EcoAtlas results w/ArcMap

EcoAtlas:

Streams: 4,478 miles

- Riverine: 4,103 miles

- Tidal Riverine: 375 miles

5 seconds

ArcMap

Google

7205928.836411 meters to miles

Web

Images

Maps

Shopping

More ▾

Search tools

About 0 results (0.17 seconds)

45 seconds plus

Length

7205928.836411

=

4477.56

Meter

Mile

EcoAtlas development and testing status

Most significant observations and comments

- Internet Explorer 7 – we recommend not supporting it. 8 and 9 have been standard for some time.
- Aquatic resource classification labels
- Project navigation needs to be improved
- Landscape Profile delineation in flat areas
Tool warns users about potential error when a pour point is placed in an urban area or flat area (<3% slope or both

Recommended before public release

- New home page
- PDF for landscape profile
- Project navigation improvements
- Historical ecology aquatic resources layer cleanup
- Iterate CARI v.0 to address limitations of data aggregation process, i.e., add in NWI riverine polygons. Tradeoff between overestimating vs. underestimating actual extent.

Home page design

The image shows a web browser window displaying the EcoAtlas website. The page features a navigation bar with links for HOME, ABOUT, CONTACT, DATA, and REGIONS, along with a search box. The main header includes the EcoAtlas logo and a large graphic with the text "Where are the wetlands and how are they doing?". Below this, there are three columns of content: "Projects" (Restoration project maps, plans, contact information, and a library of project files), "Habitats" (Maps of wetland extent and special habitats of regional interest), and "Conditions" (Assessment and monitoring data including relevant water quality and California Rapid Assessment Method CRAM) data). A map of California is visible on the left side, and a "Statewide" section is on the right, listing regions like North Coast, Bay Area, Central Coast, South Coast, and Central Valley.

EcoAtlas

HOME | ABOUT | CONTACT | DATA | REGIONS ▾ | Search

EcoAtlas About EcoAtlas

Where are the wetlands and how are they doing?

California EcoAtlas provides access to the information needed for effective wetland management. Content-rich interactive maps and tools can be used to create a complete picture of wetlands in the landscape. EcoAtlas integrates stream and wetland maps, restoration information with land use, transportation, and other information important to the state's wetlands.

Projects
Restoration project maps, plans, contact information, and a library of project files.

Habitats
Maps of wetland extent and special habitats of regional interest.

Conditions
Assessment and monitoring data including relevant water quality and California Rapid Assessment Method (CRAM) data.

Statewide

Eco Regions | Water Board Regions

- North Coast
- Bay Area
- Central Coast
- South Coast
- Central Valley

Outstanding Issues of note

- Places where things weren't intuitive enough
 - Project navigation
 - CARI classification
- CRAM data filtering modifications per 10/24 L2 mtg
- CARI
 - Legends
 - Do we need more explanation of differing data sources
 - CARCS classification vs. existing Wetland Tracker classification

MWQ Wetlands Portal

- 17 pages created
- New interactive element on primary landing page
- New content on CARI
- Interactive maps
 - Extent (based on CARI v.0)
 - Project locations
 - CRAM overall scores
 - CARI data sources
- Information transferred to state staff
- Programming starting on interactive maps (SFEI)

Portal completion gates CWMW and
Monitoring Council signoff

Related developments

- eCRAM
 - cramwetlands.org dev website reviewed at L2 meeting
 - New modules
 - New database design complete. Data migration 65% complete. Scripts running and ongoing QAQC.
 - Official migration in December when we will shut down the current eCRAM interface, migrate the data to the new database, and release the new eCRAM interface
- Online 401 pilot
 - 120 projects entered
 - 10 around the state
 - 10 RB2 backlog
 - Final report content will identify needs and next steps
- Landscape profile TAT meeting scheduled
- Joint Data Management Workgroup & CWMW meeting

Wetlands Technology Overview

What needs to happen before EcoAtlas goes public

1. CWMW signoff on EcoAtlas
2. Development of Portal
3. CWMW sign off on Portal
4. Monitoring Council sign off on

Next Priorities (2013 and beyond)

- Projects:
 - Project Information Page, Project summaries, Supplementary form
 - Inclusion of non-permitted projects
 - Notices of intent
 - Proposed projects
 - USACE data exchanges
 - Online 401 Pilot next steps
- LP NHD plus and hydrological info
- An additional user group is needed with 401/404 staff and project proponents
- Sustainability