

Subcommittee on Spatial Water Data

Meeting Details:

Date/Time: August 26, 2016, 1:00 - 3:00 PM Eastern Time

Location: Teleconference only (administered from USGS Headquarters, 12201 Sunrise Valley Drive, Reston, VA 20192)

Conference Line: 703-648-4848

From non-DOI locations, dial toll free 855-547-8255

Conference code 1712-0464#

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When it is time to attend the meeting, please visit this link:

<https://usgs.webex.com/usgs/j.php?MTID=m9d6f264cf4268301448e8625ad8ea6a8>

Meeting number: 716 325 658

Shared document space:

<https://drive.google.com/open?id=0B877MDsx9pIFTmpocGE1d0M4TVE&authuser=0>

Agenda

All Times Eastern Time Zone

1:00 - 1:10 Introductions for new attendees

1:10 - 1:30 Work Group Reports

1:30 - 1:55 New Issues

1:55 - 2:00 Adjourn

Attendees:

New (did not attend 8/28/14 or later meeting)

Sandra Fox, St Johns River Water Management District (Florida) sfox@sjrwm.com

Returning (attended 8/28/14 or later meeting)

Al Rea, USGS, National Geospatial Program, ahrea@usgs.gov

Wendy Norton, USGS, wennorton@usgs.gov

Tad Slawecki, LimnoTech, tad@limno.com

Angela Adams, Reclamation, aadams@usbr.gov

Ellen Finelli, USGS, National Geospatial Technical Operations Center, elfinelli@usgs.gov

Dwane Young, EPA, young.dwane@epa.gov

Jane Schafer-Kramer, CA Dept. Water Resources, jane.schafer-kramer@water.ca.gov
Allison Danner, Reclamation, adanner@usbr.gov
Linda Davis, Idaho Department of Water Resources, linda.davis@idwr.idaho.gov
Pete Steeves, USGS psteeves@usgs.gov
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Rob Dollison, USGS, rdollison@usgs.gov
Tommy Dewald, EPA, dewald.tommy@epa.gov
Nathan Barber, TVA, nbarber@tva.gov
Steve Nechero, NRCS, steven.nechero@ftw.usda.gov

Items of interest:

NOAA Launch of National Water Model

<http://www.noaa.gov/media-release/noaa-launches-america-s-first-national-water-forecast-model>

ESRI Releases NOAA's National Water Model Maps

<http://www.geospatialworld.net/news-posts/esri-releases-noaas-national-water-model-maps/>

JAWRA Featured Collection on OWDI

<http://onlinelibrary.wiley.com/doi/10.1111/jawr.2016.52.issue-4/issuetoc>

US Climate Resilience Toolkit: Climate Explorer

<https://toolkit.climate.gov/climate-explorer2/>

[https://toolkit.climate.gov/climate-](https://toolkit.climate.gov/climate-explorer2/location.php?county=Denver+County&city=Denver,%20CO&fips=08031&lat=39.7392358&lon=-104.990251)

[explorer2/location.php?county=Denver+County&city=Denver,%20CO&fips=08031&lat=39.7392358&lon=-104.990251](https://toolkit.climate.gov/climate-explorer2/location.php?county=Denver+County&city=Denver,%20CO&fips=08031&lat=39.7392358&lon=-104.990251)

Southern Rockies Landscape Conservation Cooperative Data Pages

<https://srlcc.databasin.org/about>

BLM Landscape Approach Data Portal

<http://www.landscape.blm.gov/geoportal/catalog/main/portal.page>

Environmental Data Discovery and Transformation (BETA)

<https://cida-test.er.usgs.gov/enddat/>

Work Group Reports:

NFIE Use Case

No report this month. Will report next month, and probably will close out this work group.

Drought Use Case Data Team

Little activity over the summer; group is anticipating developing a compilation of dataset metadata that can be accessed from a single location; datasets will be those ranked highly by people making decisions related to drought. We plan to categorize the datasets in terms of how “open” they are, then reach out to dataset managers of less open datasets and encourage/cajole them to make the datasets more open. The end product is expected to model the product of the Water Use Team -- datasets accessible via Science Base or another repository.

On a related project, Reclamation has been working internally to aggregate and make publically accessible its reservoir-related datasets from across all 5 Regions. There are about 2000 datasets being aggregated at this point, though the number continues to evolve. Data will be available through a query format, and also via web services for automated data downloads. The site will also house an interactive map from which users can locate sites of interest and then gather more data.

We will report on this project at the September SSWD Call, or folks can contact us ahead of time for more info.

Actions re: RWIS

- Dwane Young: sensor data interoperable - he wants to possibly connect to our data.
- Jim Kreft w/USGS - Office of Water Info; we can reach him through Dwane.

Spill Response Use Case

No report this month.

Network Linked Data Index

Development effort on the NLDI has continued under the Water Quality Portal (WQP) project. Performance of basic network navigation queries has been improved by orders of magnitude.

Discussion with NLDI team in ad-hoc meetings has been ongoing. Targeted meeting to sort out FY17 commitments is planned.

Notes to guide through a tour of the services.

Here's the root of the service showing what's been indexed: <http://cida-test.er.usgs.gov/nldi/>
Note that production has less stuff: <http://cida.usgs.gov/nldi/> and that it's quite easy to index more stuff. UI demo page is available here: <http://cida-test.er.usgs.gov/nldi/about/demo>

It is available in the water quality portal... <http://wqp-test.er.usgs.gov/portal/> as a pre-filter on the rest of the filters that are available by zooming in and selecting a watershed outlet location and

a navigation mode. Or you can see it in action on the browse pages, like: <http://wqp-test.er.usgs.gov/provider/NWIS/USGS-MT/USGS-480858105363401/>

In general, say we wanted to know something about the Allegheny downstream of Pittsburgh.

We don't have a great way of discovering starting points, so I grabbed one from the National Water Census: <http://cida.usgs.gov/nwc/#!waterbudget/achuc/050100090308>

Just the downstream main stem (note that up main, up with trips and down with diversions works): <http://cida-test.er.usgs.gov/nldi/huc12pp/050100090308/navigate/DM> (or UT, UM, or DD) "view source" on that page and copy/paste the result into here: <http://geojsonlint.com/> for a demo! Or you could paste 050100090308 into the demo GUI <http://cida-test.er.usgs.gov/nldi/about/demo>

Now we can create an NLDI request for the HUC and sites in the WQP that are downstream main stem of that HUC: <http://cida-test.er.usgs.gov/nldi/huc12pp/050100090308/navigate/DM/wqp>

It's important to note that we can search from ANY indexed sight so... this works: <http://cida-test.er.usgs.gov/nldi/wqp/USGS-03013044/navigate/DM/huc12pp> to get the HUC-12s downstream of that WQP site or any of the navigation modes!

There is an "about" page here: <http://cida-test.er.usgs.gov/nldi/about> and a more GUI version of the demo links I gave you can be done through here: <http://cida-test.er.usgs.gov/nldi/about/demo> choose HUC-12pp from source, paste in the HUC I gave you, choose your navigation mode and click go! It'll bring back all the HUC-12s and WQP sites.

New Issues

Open Water Data Initiative (OWDI) Use Case Proposal: Evaluating the Ecological Impacts of Water Resources Management Decisions on Wetlands and Lakes - Sandra Fox

- Presentation slides available here: http://acwi.gov/spatial/minutes/owdi_hydroperiod_sf_26_aug_2016.pdf
- Kissimmee River flood control efforts resulted in draining large portion of wetlands.
- How important is hydroperiod? How do we measure/model it?
- Goal - develop tool to model changes in inundation over time and under different hydrologic conditions
- Impact on wetland soil loss; impact from willows; impact on wildlife habitat.
- This project seems to tie in with OWDI and may make a good use case for us to examine.
- Need an academic partner, to augment government/private sector partnerships.
- Group forming to look at ecological flows -- ELOHA? -- in USGS to look at something national
- FWS Contact:
Yvonne Allen, Aquatic Habitat Analyst/Ecologist
Gulf Coastal Plains and Ozarks Landscape Conservation Cooperative
U.S. Fish and Wildlife Service
yvonne_allen@fws.gov

- Possibly National Wetland Inventory folks interested as well:
 - Megan Lang, megan_lang@fws.gov
 - Mitch Bergeson, mitch_bergeson@fws.gov

Next meeting Friday, September 23, 1:00-3:00 pm Eastern