

# Subcommittee on Spatial Water Data

## Meeting Details:

Date/Time: January 29, 2016, 1:00 - 3:00 PM Eastern Time

[Note: The meeting was postponed from the Jan 22nd because of the East Coast snow storm and early closing of federal offices.]

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#

### JOIN WEBEX MEETING

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 - 2:10 Work Group Reports

2:10 - 2:30 Presentation on HY\_Features

2:30 - 2:40 New Issues

2:40 - 2:45 Adjourn

## Attendees:

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

Ariel Doumbouya (USGS)

Stuart Hamilton (Aquatics Informatics)

Neil Olson NH NHD steward (NH Department of Environmental Services)

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

Al Rea (USGS)

Steve Kopp (Esri)

Kernell Ries (USGS)

Steve Aichele (USGS)

Pete Steeves (USGS)

Emily Read (USGS)  
Thomas Dabolt (DOI)  
Kevin McNinch (USGS)  
Bill Samuels (Leidos)  
Angela Adams (BOR)  
Tommy Dewald (EPA)  
Andrea Ostroff (USGS)  
Ed Clark (NOAA)  
Dave Blodgett (USGS)  
Rob Dollison (USGS)  
Jane Schafer-Kramer (CA DWR)  
Sara Larsen (WSWC)  
Mike Eberle (USDA -FS)  
Dean Djokic (Esri)  
Chris Mickle (Cardno)  
Terra Haxton (US EPA)  
Brenna Mefford (WY SEO)  
Marie Pepler (USGS)

## Of Interest:

Louisiana Flooding Map:

<http://ladotd.maps.arcgis.com/apps/SimpleViewer/index.html?appid=4acfdce210bf4eceba1b118b5e79c226>

- AGOL maps leveraging data services from NWS, USACE and USGS.
- Created by and for the state of Louisiana but works through conterminous US.
- Good example of open water data service enabling decision support tools

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## Drought Use Case Work Group

Colorado River Basin Drought Visualization: <http://on.doi.gov/CRBDrought>

- Announced at Colorado River Water Users Association on 12/16/15. Press Release to public, along with Social Media outreach.
- Prior to launch, several last minute briefings, one of them to OMB. Very positive feedback, including suggestion to gather lessons learned.
- Working on some text and data updates
- Spanish-language version in the works - possibly out by March 22, World Water Day
- 46,000 visitors so far; Emily Read will talk about [site analytics](#) (Reddit post to “Data is Beautiful” led to most traffic. Last slide is Crazy Egg heat map analytic tool for seeing where people are clicking in an interactive map.)
- Next Steps:

- Data - depending on how you define data, we included between 5 and ~10 datasets/packages in the viz. Some are updated hourly via Reclamation's public facing web servers. Rest are updated as data changes.
  - Via Github, most viz datasets are in an open format; not available via web services at this point. ([https://github.com/USGS-CIDA/OWDI-Lower-Colorado-Drought-Vis/tree/master/src\\_data](https://github.com/USGS-CIDA/OWDI-Lower-Colorado-Drought-Vis/tree/master/src_data))
  - Additional outreach activities in development
- Next Steps for the Team: Early 2015 team activities included considering about 137 drought-related datasets; proposal is for the team to revisit those datasets, gather additional information about their makeup/format, **propose priorities** for making them "open", and working through that process, information about how to proceed in future to make sure the datasets get made available.
    - Team meeting in the works.
    - Current goal and should it (workgroup) continue?
  - From AI: One thing to consider is that the work done by the USGS and BOR teams was not really done by the SSWD, rather SSWD acts as a coordinating body for making data open. Drought team set the bar too high!
    - Follow up with Ed Clark - on drought activities

## NFIE Use Case Work Group

- Planning for NFIE-II (FY2016) is starting now, any new requirements for work group activities and membership will likely be identified in the coming weeks.
- May need to suspend for this year.
- [Decision Placeholder]

## Spill Response Use Case Work Group

The Group will prepare a brief document that makes recommendations regarding critical datasets for spill response. For example, NHDPlus, real-time stream gage data, forecast data from River Forecast Centers, list of diversion points (drinking water, agricultural, industrial) below the spill, locations of highway bridge crossings, rail lines, and pipelines can help determine sites of potential future spills, discharge points, residence times for reservoirs.

HSIP Gold (500+ datasets)

HSIP Gold One Pager: <https://qii.dhs.gov/HIFLD/public/HSIP-Gold-Freedom-One-Pager-2015.pdf>

Tod: HSIP Freedom layers are being targeted for public web services. Will be announced soon. Will be served through DHS's ArcGIS Online infrastructure. Restricted layers will be served with security token requirements.

Interagency Modeling and Atmospheric Analysis Center (IMAAC) Meeting - January 27, 2016. The purpose of this meeting is to have Federal Interagency partners currently using water models operationally for CBRNE-related incidents present their capabilities.

## NHDPlus Framework Data Work Group

Final comments on the initial release of the NHDPlus Denormalized File GeoDatabase are in and the NHDPlus team (EPA-USGS) is in the process of addressing them in preparation for the second release - expected at the end of February, 2016. The final comments are posted at <https://docs.google.com/document/d/1WPqzvrlKdyKz6RcXTYzWesgq4EAK8NR-gDhsgrsVIMo/edit?pref=2&pli=1#heading=h.gjdgxs>.

## Network-Linked Data Work Group

This group has morphed from the old Technology Work Group.

A group from USGS and EPA met to discuss joint implementation of NLDI use cases. [https://docs.google.com/document/d/1wnxBQ7five\\_xNoJvtZeLJHoMsEsHdDjSheA7cY-pVfo/edit](https://docs.google.com/document/d/1wnxBQ7five_xNoJvtZeLJHoMsEsHdDjSheA7cY-pVfo/edit)

Agreement to move forward starting in February.

- Minimum Viable Product will provide network-linked search services for part or all of the holdings of the Water Quality Portal for implementation in the [WQP](#) and future [EnDDaT](#) systems.
- USGS Office of Water Information will provide cooperative development and hosting infrastructure for core network-linked data search services.
- EPA will provide useful components from WATERS code base in cooperative development with USGS OWI.
- USGS NGTOC will start formalizing a store of network-linked data in the sciencebase.gov content management system.
- All will take part in ongoing (to be scheduled) architectural and sequencing discussions for future components.
- Not only data that are linked to the stream network, but also data linked to catchments will be included.

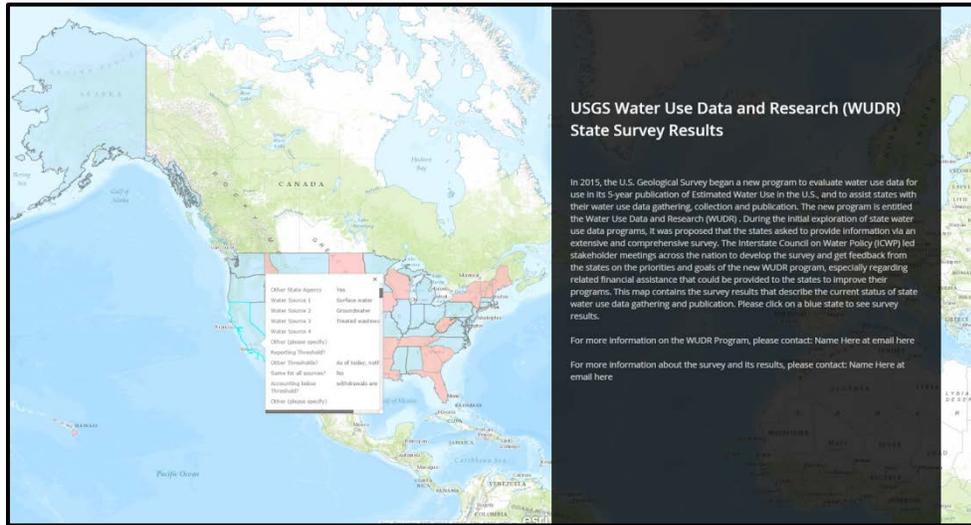
Brief design documents here:

[https://docs.google.com/a/usgs.gov/presentation/d/1yO8UItDJUUIzRqDv3Cf1ocmkmbLgKs0KiVGNSAluCdU/edit?usp=drive\\_web](https://docs.google.com/a/usgs.gov/presentation/d/1yO8UItDJUUIzRqDv3Cf1ocmkmbLgKs0KiVGNSAluCdU/edit?usp=drive_web)

## Water Use Data Work Group

We are almost finished adding listing of water use datasets to Sciencebase (<https://www.sciencebase.gov/catalog/item/55e65861e4b05561fa208878>), but want to put those together into a unified “dashboard” of some kind for a visual reference. In the meantime, we together a map application of the results of the USGS Water Use Data and Research (WUDR) Program state-by-state water use program survey, just to look at the results.

The map contains information for respondents' water sources tracked and published, including comprehensive information for all USGS water use sectors and consumptive use, frequency of reporting, spatial scales collected and published, and statutory authorities/thresholds for water use reporting. The survey results are large, so this is a **draft only**, needs to be pared down and cleaned up with the help of the Interstate Council on Water Policy (group that



issued and managed the survey)

([http://wswc.maps.arcgis.com/apps/MapJournal/index.html?appid=5262e4bd278c4636ad003ea\\_b52fbc6ca](http://wswc.maps.arcgis.com/apps/MapJournal/index.html?appid=5262e4bd278c4636ad003ea_b52fbc6ca)). Now that we have the survey results we have a better idea of water use data

available at the state level, and can finish our final report on the water use data category. We will have a meeting where we review the draft report and also decide if we want to engage in listed agencies briefly to encourage them to publish their data using “open data” formats and strategies, and inform them about the Open Water Data Initiative. That would conclude the workgroup’s tasks, or we will be subsumed into the Drought Use Case Workgroup.

## 2:10 - 2:30 Presentation on HY\_Features - Dave Blodgett

<http://www.opengeospatial.org/projects/groups/hydrofeatswg>

The standard is not meant to encode actual geospatial data.

GitHub Repository. To view/contribute, need to be affiliated with an OGC member organization.

To get access, contact Dave Blodgett (dblodgett@usgs.gov).

Link to Dave’s presentation.

[https://docs.google.com/presentation/d/1Kduk9mwtOpPI9QKYHnSIs8Z37-FWhjms7Uf-83\\_WhQo/edit](https://docs.google.com/presentation/d/1Kduk9mwtOpPI9QKYHnSIs8Z37-FWhjms7Uf-83_WhQo/edit)

WaterML2 Part 1 (time series)

WaterML2 Part 2 (ratings)

WaterML2 Part 3 (features)

International Glossary for Hydrology

## 2:30 - 2:40 New Issues

Should revisit Wiki.

## 2:40 - 2:45 Adjourn