

# Subcommittee on Spatial Water Data

## Meeting Details:

Date/Time: June 24, 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#

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 - 1:15 Items of Interest
- 1:15 - 1:45 Work Group Reports
- 1:45 - 1:50 New Issues
- 1:50 - 1:55 Adjourn

## Attendees:

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

Tom Burley, USGS TX Water Science Center, [teburley@usgs.gov](mailto:teburley@usgs.gov)

Brad Doorn, NASA, Water Resources Program Manager, [bradley.doorn@nasa.gov](mailto:bradley.doorn@nasa.gov)

Lisa Engelman, Booz Allen Hamilton, [engelma\\_lisa@bah.com](mailto:engelma_lisa@bah.com)

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

Wendy Norton, USGS, [wenorton@usgs.gov](mailto:wenorton@usgs.gov)

Al Rea, USGS, [ahrea@usgs.gov](mailto:ahrea@usgs.gov)

Sara Larsen, WSWC, [saralarsen@wswc.utah.gov](mailto:saralarsen@wswc.utah.gov)

Jim Kreft, USGS, [jkreft@usgs.gov](mailto:jkreft@usgs.gov)

Kernell Ries, USGS, [kries@usgs.gov](mailto:kries@usgs.gov)

Steve Aichele, USGS, [saichele@usgs.gov](mailto:saichele@usgs.gov)

Bill Samuels, Leidos, [samuelsw@leidos.com](mailto:samuelsw@leidos.com)

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Jeff Davis, Cardno, [jeffrey.davis@cardno.com](mailto:jeffrey.davis@cardno.com)

Kevin McNinch, USGS, [kimcninch@usgs.gov](mailto:kimcninch@usgs.gov)

Tommy Dewald, EPA, [dewald.tommy@epa.gov](mailto:dewald.tommy@epa.gov)  
Tad Slaweki, Limnotech, [tad@limno.com](mailto:tad@limno.com)  
Rob Dollison, USGS, [rdollison@usgs.gov](mailto:rdollison@usgs.gov)

## Of Interest:

### **Esri Announces Winners Of The Visualize Your Water Quality Challenge**

[http://www.theharlowreport.com/2016/article\\_2016.php?id=106](http://www.theharlowreport.com/2016/article_2016.php?id=106)

### **Mapping Water Use: Landsat And America's Water Resources**

[http://www.theharlowreport.com/2016/article\\_2016.php?id=107](http://www.theharlowreport.com/2016/article_2016.php?id=107)

<http://climateengine.org/> On-Demand Cloud Computing of Climate and Remote Sensing Data

<https://statuschecker.fgdc.gov/> Web service status watcher

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Working on getting a NASA representative to talk about NASA's water-related sensors and data programs.

Brad Doorn, NASA: Observations

- LANDSAT, 25 more years commitment
- Sentinel (moderate resolution)
- The only thermal band is LANDSAT right now
- Daily observations VIRS (?)
- GPM, including snow
- GRACE - gravity changes
- Radar sensors coming
- SWAT - Surface Water Topo, lake levels, stream levels and flows
- By 2021, many new sensors to help constrain hydro models
- Workshop next week at JPL on snow water equivalent

**1:00 - 1:10 Introductions for new attendees**

**1:10 - 1:15 Items of Interest**

# 1:15 - 1:45 Work Group Reports

## Drought Use Case Team

- Team met on 5/18/16
- Water Use Workgroup joined the Drought Use Case Team
- Revisited team goal for this year:
  - Create a publicly-accessible catalog of drought-related datasets of high-value to data-users. The catalog will include and display information about the datasets and their degree of openness and accessibility. Publicize the catalog and its datasets when the catalog is available.
- Reviewed proposed team deliverables under Goal 1 of the National Drought Resilience Partnership's Federal Action Plan
- Reviewed the proposed plan of action for the team this year, and began discussing how to prioritize drought-related datasets to work on in 2016.
  - Smaller group call will flesh out the prioritization/ranking criteria to give us a roadmap for working on the highest priority items first with available time and resources.
  - Team members on the call supported a small-group exercise to develop the criteria to prioritize the datasets.
  - Next group meeting in July will discuss the prioritization/ranking criteria for the datasets
- Meeting being planned
- Proposed end goal

## Spill Response Work Group

- Initial Interagency Modeling and Atmospheric Assessment Center (IMAAC) Water Modeling Meeting 6 June 2016
  - Overview of the Need for Water Modeling
  - IMAAC and Water Modeling: Readiness Criteria and Operational Requirements that Drive a Water Modeling Response
  - Member Capabilities and Responsibilities
  - Possible Courses of Action
  - Implementation Plan Overview: Plan Concept and Elements
- DTRA Reachback - RFI - FEMA Request - Capstone Exercise - ICWater model runs
  - Radioactive Material Estimation in the Ohio, Allegheny, and Monongahela Rivers
  - Radioactive Material Travel Time in Potomac Basin
- Working on two papers related to model calibration - Journal of Hydrology, Environmental Modeling and Software
- AWRA GIS Conference - presentation on "Applications of the Incident Command Tool for Drinking Water Protection (ICWater)"

- Ongoing work by Richard Moore (USGS) on time of travel in lakes. Due to be released this summer
- Kernell Ries - Proposals for Inland Oil Spill Preparedness Project funds
  - StreamStats proposal to create web services for velocity and time-of-travel (using Jobson equations or Greg Schwarz's new equations). Also improve techniques for transferring real-time gage flows to a spill site. Database of time-of-travel study locations. Project will cover building the web services only.
  - Module to work with ICWATER for estimating times-of-travel for bitumen oil spills, which are much thicker and move slower - Faith Fitzpatrick - USGS ND.
  - David Soong - IL USGS - Identify pockets where cleanups are likely to be needed.

## Network-Linked Data Index Work Group

- Continue to make progress on Water Quality Portal (WQP) implementation
  - Putting sites in hydrologic context (on test) <http://wqp-test.er.usgs.gov/provider/STORET/1119USBR/1119USBR-LOP101/>
    - This shows WQP sites that are upstream and downstream of a specific WQP site
  - Allowing for upstream-downstream queries is nearly there too, just waiting on developer time
    - <https://gist.github.com/jkreft-usgs/f8a1f7da4dd083b911f6e3ea56e71873.pibb>
    - Shows sites on the Mississippi main stem that have been samples for nutrients (up 2000 km on the main stem, or 1000 km with tributaries)
- New datasets ready to be indexed
  - EPA Office of Water: Facilities that Discharge to Water NHDPlus Indexed Dataset - should be indexed shortly
  - HUC12 Pour Points
- EPA team is starting to explore the app.
- Exploring ways to allow for others to contribute data to the NLDI
- AWRA Conference on GIS and Water Resources NLDI session (Sacramento, CA - July)

## NHDPlus Framework Work Group

The NHDPlus team has released a refreshed version of the national “flattened” geodatabase. This includes some data updates, as well as a revised set of attributes, notably including the monthly mean flow estimates for every NHDPlus V2.1 flowline. This new dataset can be downloaded from here: <https://www.epa.gov/waterdata/nhdplus-national-data>. Hit the green “Get Files” button and look for the “NHDPlusV21\_NationalData\_National\_Seamless\_Geodatabase\_2.7z” and “NHDPlusV21\_National\_Seamless\_GeoDatabase\_User\_Guide.pdf” files. You may need a third-party FTP download client that can restart a download in case of problems. The geodatabase 7z file is about 7.5 GB.

The work group will go inactive now that this refreshed version has been released.

## 1:45 - 1:50 New Issues

Tad Slawewski shared a meeting announcement, but had to leave the call early. He asks if there is, or should be OWDI representation at <https://joss.ucar.edu/meetings/2016/national-conversation-water-information-21st-century>.

Seems like there should be ... a lot of NOAA registrants, not many other agencies represented - see <https://joss.ucar.edu/national-conversation-water-information-21st-century-meeting-participants>

Agenda is not yet published; current draft has the meeting starting with a 5 PM reception on Tuesday 7/12, finishing at noon Thursday 7/14.

Al Rea indicated that Kevin Gallagher/USGS is on the agenda to brief on OWDI and other similar agendas.

### *Meeting Objectives*

*The [National Oceanic and Atmospheric Administration](#) (NOAA), [U.S. Department of the Interior](#), the [Office of the Assistant Secretary of the Army for Civil Works](#) (OASACW), and other U.S. federal agencies along with support from the [U.S. Water Partnership](#) (USWP) and the [University Corporation for Atmospheric Research](#) (UCAR) will co-host an invitation-only event convening experts from U.S. federal agencies, major companies, civil society, and universities in Washington, D.C., on July 12 – 14, 2016, to:*

- Identify key steps and best practices to deliver more robust and integrated water-related data, information and prediction services to help communities and businesses manage risk, build resilience, and plan for the future; and*
- Explore potential public-private partnerships to catalyze solutions and “actionable information” that address U.S. and international water data and information challenges.*

*Selected thought leaders and experts will frame discussions of key information trends, followed by interaction with participants for collaborative problem-solving.*

[AWRA Conference](#) July 11-13, Sacramento, CA

## 1:50 - 1:55 Adjourn

**Next call: July 22, 2016, 1:00 - 3:00 p.m. Eastern**