

# Subcommittee on Spatial Water Data

## Meeting Details:

Date/Time: March 25, 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, Items of Interest

1:10 - 1:30 Update on the National Water Model - Ed Clark

1:30 - 2:30 Work Group Reports

2:30 - 2:40 New Issues

2:40 - 2:45 Adjourn

## Attendees:

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

Sam Lammie (USFS GSTC) [slammie@fs.fed.us](mailto:slammie@fs.fed.us)  
Molly Maupin (USGS) [mamaupin@usgs.gov](mailto:mamaupin@usgs.gov)  
Laura McNulty (ESRI)  
Paul Fukuhara (NRCS) [paul.fukuhara@ftw.usda.gov](mailto:paul.fukuhara@ftw.usda.gov)  
Carl Schroedl (USGS) [cschroedl@usgs.gov](mailto:cschroedl@usgs.gov)

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

Al Rea (USGS) [ahrea@usgs.gov](mailto:ahrea@usgs.gov)  
Wendy Norton (USGS) [wenorton@usgs.gov](mailto:wenorton@usgs.gov)  
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Jeff Donze (Esri) [jdonze@esri.com](mailto:jdonze@esri.com)  
Andrea Ostroff (USGS) [aostroff@usgs.gov](mailto:aostroff@usgs.gov)

## Of Interest:

### New Federal Source Code Policy -

- For public comment through April 11, 2016
- “Default to Open” for government source code
- Pilot program - 3 years - 20% of all code must be published
- Eventually ALL government-created code to be published
- Agencies should participate in Open Source Communities
- Open Development, Incremental Release, User Engagement

<https://www.whitehouse.gov/blog/2016/03/09/leveraging-american-ingenuity-through-reusable-and-open-source-software>

<https://sourcecode.cio.gov/>

## Streamer Version 3 release

[http://www.usgs.gov/blogs/features/usgs\\_top\\_story/follow-your-stream-to-learn-about-water/](http://www.usgs.gov/blogs/features/usgs_top_story/follow-your-stream-to-learn-about-water/)

From press release:

New features for developers

Streamer now has features that allow developers to create their own customized mapping applications with trace functionality and hydrographic map services.

The [Streamer Trace API](#) is now available as a programming interface written in JavaScript and designed to add upstream and downstream traces to an [ESRI-based](#) web map. The site includes extensive documentation, as well as tutorials and samples that can be used to build a custom stream tracing application similar to Streamer.

Four [Streamer map services](#) are now available along with tutorials that show how to build a web page containing a map with Streamer map service layers. New map services for Streamer are designed to emphasize hydrographic features while improved map symbols have been incorporated to make it easier to distinguish major streams and cities.

QUESTION - Could this be added to/incorporated into Google Maps so that the general public could (e.g.) see how to go from their house to someone else by water? This might be a nice way to improve their awareness of watersheds and waterways ... maybe as an option under Directions. Maybe a Summer of Code project ....

## 1:10 - 1:30 Update on the National Water Model

Ed Clark

Link to video that was shown at White House World Water Days:

[National Water Model Animations](#)

Presentation slides are available

here: [http://acwi.gov/spatial/minutes/nasa\\_national\\_water\\_model\\_clark.pdf](http://acwi.gov/spatial/minutes/nasa_national_water_model_clark.pdf)

- White space slide 5, coastal tidally influenced systems not modeled by RFCs (about 100 million people live in those areas)
- WRF-Hydro community model
- National Water Model (IOC Experimental Output 2016) - will provide river channel discharge and velocity info for 2.7 million additional river reaches
- Compressed time frame. Originally a 5-year program, launched in year 2
- [World Economic Forum's 2016 Global Risk Report](#), which emphasizes water crises

# 1:30 - 2:30 Work Group Reports

## Spill Response

- Submitted report on priority datasets for contaminant spill response
  - AI will add this to the GoogleDrive and Wendy will post it on the website so we can all look at it  
([http://acwi.gov/spatial/minutes/spill\\_response\\_use\\_case\\_doc\\_25\\_mar\\_2016.pdf](http://acwi.gov/spatial/minutes/spill_response_use_case_doc_25_mar_2016.pdf))
- ICWater version 3.4 released to DTRA for distribution - improved source term GUI, model calibration tool
- Interagency Modeling and Atmospheric Center (IMAAC) - mainly focused on air dispersion and plume modeling but beginning to address waterborne contaminants
- Outreach activities: article to appear in May issue of AWRA Impact, presentation at AWRA GIS Conference (Sacramento)

## Water Use Workgroup

We are working with the Interstate Council on Water Policy to summarize the results of the state agency water use statutes and water use data-collection survey for the nation (conducted for the USGS Water Use Data and Research (WUDR) program). We are also gathering edits from our workgroup on a draft report back to the SSWD. We are making arrangements with Angela's group (drought/water supply) on how to merge and how to look at the dataset listing she has created. We are soliciting feedback on the [water use resource listing on Sciencebase](#) and figuring out how to best portray the information shared there - hopefully getting some assistance from folks who know Sciencebase really well.

## Network-Linked Data-Index

- Pilot database code has been moved to github: <https://github.com/ACWI-SSWD/nldi-db>
- New web service code has been started: <https://github.com/ACWI-SSWD/nldi-services>
- Both build using Travis-CI: <https://travis-ci.org/ACWI-SSWD/>
- Small subset of NHDPlus builds for testing and development.
- Full scale deployment on USGS infrastructure.
- DEMO!!!
- Plan to implement basic "point in polygon" indexing as first capability for WQP sites.
- Current implementation returns flowlines, will add WQP sites as second response type.
- Should have working in WQP user interface for [National Monitoring Conference](#) (May 2-6, 2016, in Tampa, FL)
- Comment: Data consistency is crucial. NHDPlus needs to be regression tested; however, overall, this is a data-development problem, not a code problem. There isn't just one network; there will be multiple networks that serve multiple needs/purposes (the view of a network is different depending on whether you're looking at flooding or at low-flow conditions).

## Drought Use Case Team

Significant announcements related to drought this week:

Presidential Memo: [Building National Capabilities for Long-Term Drought Resilience](#)

- Goal #1: Data Collection & Integration directly relates to team activities

- Goal #4: Coordination of Federal Drought Activity -- coordination and sharing of information related to federal investments in water infrastructure

[Drought Resilience Action Plan](#)

[Drought in America website](#)

NYT Article: [Water is Broken - Data Can Fix It](#)

Recent Activities

- Strategy call on working with Water Use Workgroup
- Organizing call w/team
- Approach will be to examine list of datasets and prioritize for making them open, based on which are used/most important to support drought-related decision-making
- Might want to use ScienceBase as a repository for info - possibly get together with Dave Blodgett at USGS for further discussion
- We will be looking for team members - please email Angela at [aadams@usbr.gov](mailto:aadams@usbr.gov) if you're interested in participating on the team

## NHDPlus Data Framework Work Group

Second release of national NHDPlus V2.1 geodatabase delayed slightly. Will be out soon -- probably sometime in April. (Most problems are resolved, but a handful still needs attention.)

**2:30 - 2:40 New Issues**

**2:40 - 2:45 Adjourn**

**Next Call: April 22, 2016, 1:00 p.m. Eastern Time**