

# Subcommittee on Spatial Water Data

## Meeting Details:

Date/Time: July 22, 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 - 1:30 AWRA/ESRI Conferences overview

1:30 - 1:55 Work Group Reports

1:55 - 2:00 New Issues

2:00 Adjourn

## Attendees:

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

Gary Darling, [gary.darling@water.ca.gov](mailto:gary.darling@water.ca.gov)

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

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

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## Items of interest:

### High points from AWRA/ESRI

- National Water Model flow forecast services (See [blue note](#) below)
- NHDPlusHR update
- Network linked data index (NLDI)
- Network generalization
- Hydrography future discussion
- Technology committee - planning for next GIS Specialty Conf.

Note from Steve Kopp on the National Water Model forecast services:

Here are the links to the foundational services you can build some interesting web maps from. Feel free to mash them up with other content.

<http://livefeeds2.arcgis.com/arcgis/rest/services/NFIE/>

These are the medium range forecast, 3 hr time interval for 10 days. Next week we will also have the short term, 1 hr time interval for 18 hr map services available.

The layers with an "A" in the name show the difference from long term monthly average flow or anomaly value. The red and blue map some of you have seen. The one without the A is just shades of black and line width showing flow. The one with 'plenary' in the name is a little different color scheme of the anomaly map that was designed to look better on the dark grey basemap.

Click on one of these links

Then choose one of the viewers, instructions below are for the ArcGIS Online map viewer

Click on the "... "

and then from the dropdown, Enable Time Animation , this will bring up the time slider so you can either step through the forecast manually or just click play.

If you are zoomed out, using a time interval of 9 or 12 hrs does well for showing the movement of water. When you zoom to the finest level, then the 3 hr or 6 hr time step looks good.

If you want to configure the playback speed, click here , and for other time settings click "show advanced options"

If you want to see it with a different basemap, click on to open the dropdown list of available basemaps.

The layer is actually composed to 3 different feature layers, one full resolution original NHDPlus geometries, and two generalized sets of features for viewing at smaller scales. And is symbolized on two variables, flow rate and difference from long term normal. There is some custom handling in the background to create a nice legend for this instead of showing what would be 6 legends. Happy to share how this is done if you're interested.

This is still a work in progress, optimizing performance and finishing up the custom app which will include popup graphs of the forecast time series for each reach. Unfortunately that app won't be finished for next week.

NHDPlus V2 Workshop - Sacramento, CA, July 14-15.

- Sponsored by California Water and Environmental Modeling Forum (CWEMF)
- 130 attended
- 1 day lecture, recorded
- ½ day hands on (more material than could be done)
- Good feedback

## Work Group Reports

### Network Linked Data Index:

NLDI Session at the AWRA specialty conference was well attended and was followed by a number of good conversations.

Side meetings of NLDI working group meetings at the AWRA conference resulted in a bit more plan around FY 2017 plans for the NLDI.

The tentative list looks like:

- RAD (Reach Address Database) events exposed and indexed
- Integration of catchment summary data reports
- NHDPlus events exposed and indexed
- General interface for all indexed content
- Pilot NHDPlus Hi Res NLDI Capability
- Network Master Tools — ScienceBase integration
- Performance Enhancements

- OGC IE to determine response format for services
- National Water Model and other high-value content
- Migrate NLDI to the GeoPlatform (Not sure this is needed this fiscal year as we can support it for now at EROS)

Next steps are to flesh out these ideas and start to break them down into task descriptions for various stakeholders/contributors.

The NLDI MVP is available on the testing version of the Water Quality Portal: <http://wqp-test.er.usgs.gov/portal/>

The initial demo user interface is here: <http://cida.usgs.gov/nldi/demo>

API documentation in the readme here: <https://github.com/ACWI-SSWD/nldi-services>  
Crawler configuration documentation in readme here: <https://github.com/ACWI-SSWD/nldi-crawler>

Hopefully demo on this call will be recorded.

## NFIE Use Case Work Group

No report this month.

## Drought Use Case Work Group

No report this month.

## Spill Response Use Case Work Group

AWRA GIS Conference - ICWater applications presentation in NHDPlus session  
NHDPlus Workshop - Lightning Talk - ICWater

## New Issues:

Aquatic Ecology Use Case? Deferred to August meeting.

**Next meeting Friday, August 26, 1:00-3:00 pm Eastern**