

Subcommittee on Spatial Water Data

Meeting Details:

Date/Time: March 23, 2018, 1:00 - 2:00 PM Eastern Time

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

GSTalk Information:

Meeting Link:

<https://gstalk.usgs.gov/17120464>

Audio Information:

703-648-4848 Conference code 1712-0464#

NOTE: THIS WEBEX MEETING WILL BE RECORDED TO AID IN NOTE TAKING. THE NOTES ARE THE OFFICIAL MEETING RECORD.

Agenda

All Times Eastern Time Zone

1:00 - 1:05 Introductions for new attendees

1:05 - 1:25 TBD

1:25 - 1:55 Open discussion

1:55 - 2:00 Announcements and Adjourn

Attendees:

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

Rob Dollison, USGS (rdollison@usgs.gov)

Sara Larsen, WSWC (sarahlarsen@wswc.utah.gov)

Pete Steeves, USGS (psteeves@usgs.gov)

Sue Buto, USGS (sbuto@usgs.gov)

Jane Schafer-Kramer (jane.schafer-kramer@water.ca.gov)

Lauren Patterson, Duke

Wendy Norton, USGS (wenorton@usgs.gov)

Dave Blodgett, USGS (dblodgett@usgs.gov)

Tad Slawecki, Limnotech (tad@limno.com)

Bill Samuels, Leidos (samuelsw@leidos.com)

Sandra Fox, AWRA (sfox@sjrwmd.com)

Roland Viger, USGS (rviger@usgs.gov)

Terra Haxton, U.S. EPA (haxton.terra@epa.gov)

Jim Kreft, USGS (jkreft@usgs.gov)

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Kevin McNinch, USGS (kimcninch@usgs.gov)
Emily Read, USGS (eread@usgs.gov)
Chris Mickle, TRC Solutions (cmickle@trcsolutions.com)
Tommy Dewald, U.S. EPA (dewald.tommy@epa.gov)
Greg Cocks, USGS (gcocks@usgs.gov)

In Memoriam: Craig Johnston

Contact: Al Rea ahrea@usgs.gov

Craig Johnston, a physical scientist with the USGS New England Water Science Center, passed away unexpectedly in his home on March 14, 2018. Craig was an integral member of a small team that developed a very significant product, now known as the NHDPlus Medium Resolution (NHDPlus MR). NHDPlus MR has been very influential in the world of hydrology and water quality modeling, recently serving as the basis for the National Water Model, which promises to greatly improve the spatial detail of flood warnings, among many other applications. Craig did a lot of the early programming, much of the QA/QC, and contributed a huge amount of effort and personal time to the project. The USGS-EPA team met by phone nearly every week for 10 years, during which his gentle personality often helped get the project through stressful times. Craig contributed to many other important geospatial projects, including the ongoing NHDPlus High Resolution development effort. He enjoyed the water when he was away from work as well, often boating on local waters near his home. He was kind and generous, with an appealingly goofy sense of humor, and we will sorely miss him.

NHDPlus V2 National Seamless data in GeoPackage format

The seamless NHDPlus V2 National datasets are now available on the EPA web site in GeoPackage format. See <https://www.epa.gov/waterdata/nhdplus-national-data>. There is one GeoPackage for CONUS, and another for Hawaii, Puerto Rico, the U.S. Virgin Islands, and some of U.S. territories in the Pacific Islands. The National Seamless GeoDatabase User Guide on the same web page can be used with the GeoPackage data.

OGC announces Part 3 of the WaterML 2 suite of standards, to aid in consistent identification of hydrologic features between systems

'WaterML 2: Part 3 - Surface Hydrology Features' standard forms the third part of the 'OGC WaterML 2' suite of standards that groups water-related OGC standards.

Contact: info@opengeospatial.org

22 March 2018: The membership of the Open Geospatial Consortium (OGC) has approved the WaterML 2: Part 3 - Surface Hydrology Features standard. Part 3 defines a model for identification of surface hydrologic features, such as catchments, water bodies, and confluences, to support applications like modeling of surface water flow and accumulation. Such modeling is instrumental in water resource planning and flood prediction and analysis. The WaterML 2: Part 3 - Surface Hydrology Features standard, more simply known as Surface Hydrology Features or just HY_Features, defines a common conceptual feature model for describing typical features of the hydrology domain using established models and patterns endorsed by WMO and UNESCO, such as those documented in the [International Glossary of Hydrology](#).

This standard, along with expected future implementations of the conceptual model, forms the third part of the '[OGC WaterML 2](#)' suite of standards, which groups water-related OGC standards. It follows Part 1: Timeseries, and Part 2: Ratings, Gaugings and Sections. The ability to represent the same catchment, river, or other hydrologic feature in several ways is critical for cross-referencing related features and building integrated data systems. The HY_Features model helps aid in such data integration, as it supports referencing information about a hydrologic feature across disparate information systems or products.

As with any OGC standard, the open WaterML 2: Part 3 - Surface Hydrology Features standard is free to download and implement. Interested parties can view and download the standard from the [WaterML 2: Part 3 - Surface Hydrology Features](#) page on the OGC website. Information on the other standards comprising the OGC WaterML 2 suite of standards is also available on the [OGC WaterML](#) page of the OGC website.

SWG page: <http://www.opengeospatial.org/projects/groups/hydrofeatswg>
More content and information here: http://opengeospatial.github.io/HY_Features/

“NHD in Washington State” Story Map

<https://waecy.maps.arcgis.com/apps/Cascade/index.html?appid=4505430ad1f947a5a255001080f6d359>

EPA WATERS GeoViewer

<https://www.epa.gov/waterdata/waters-geoviewer>

ESRI Fed UC Update?

Plenary -

http://www.esri.com/events/federal?adumkts=corporate_programs&aduc=email&adum=list&utm_Source=email&aduca=m18fedgis_conference&adut=72027_plenary_videos

No news (no one from the group attended)

Other announcements?

AWRA GIS & Water Resources X - preliminary program

<http://www.awra.org/meetings/Orlando2018/index.html>

Sunday workshops

***GIS Support for Hydrologic and Hydraulic Modeling and Analyses
R and Spatial Data***

NHD meet-up - Tuesday Lunch

Follow up from Ken Reid confirming that NHD Lunch scheduled for Tuesday and room requirements / lunch options are being arranged (S.Fox)

Shaping the Future – USGS National Terrain Model and 3D NHD - Wednesday

Afternoon (1:30-5 pm)

As mentioned by Chris Mickle on our last Subcommittee on Spatial Water Data call, the International Conference for Environmental Data Management is scheduled to be held on May 8 and 9 in Asbury, NJ. The conference is accepting presentation abstracts until April 1. Information about the abstracts and the conference can be found at:

<http://www.icedm.net/conference-agenda/>. Information about the Asbury Hotel, in Asbury, NJ, can also be found on the conference website. Conference attendees mostly come from industry and are involved in preparing data across the U.S.

StreamStats Updates:

- New web page (<https://water.usgs.gov/osw/streamstats/>) and StreamStats V4 have been out of beta for a couple months.
- Wyoming Omnibus Planning bill was signed by the Governor which funds StreamStats development in Wyoming using NHDPlus HR.
- New Jersey, Pennsylvania, and Delaware are currently working on StreamStats refreshes using higher resolution data
- South Carolina LiDar based application is nearing completion
- Nevada is investigating a test basin for initializing StreamStats.
- West Virginia application is being worked on with out-of-pocket expenses from Virginia WSC.
- Rainy River Basin Region: Application nearing completion, flood frequency regression equations report nearly published
- St. Louis Storm Drain Tools: St. Louis metropolitan area has added storm drain vectors in StreamStats and coordinated with the ESRI ArchHydro team to allow delineations using the storm drains. These tools will soon be functional in StreamStats.
- StreamStats workshop at AWRA

Thanks to Wendy Norton, and CONGRATULATIONS on your retirement!

Next Meeting:

April 27