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
Brad Doorn, NASA, Water Resources Program Manager, bradley.doorn@nasa.gov
Lisa Engelman, Booz Allen Hamilton, engelman_lisa@bah.com

Returning (attended 8/28/14 or later meeting)
Wendy Norton, USGS, wenorton@usgs.gov
Al Rea, USGS, ahrea@usgs.gov
Sara Larsen, WSWC, saralarsen@wswc.utah.gov
Jim Kreft, USGS, jkref@usgs.gov
Kernell Ries, USGS, kries@usgs.gov
Steve Aichele, USGS, saichele@usgs.gov
Bill Samuels, Leidos, samuelsw@leidos.com
Steve Kopp, Esri, skopp@esri.com
Jeff Davis, Cardno, jeffrey.davis@cardno.com
Kevin McNinch, USGS, klmcninch@usgs.gov
Of Interest:

Esri Announces Winners Of The Visualize Your Water Quality Challenge


Mapping Water Use: Landsat And America’s Water Resources


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

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

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

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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
  o 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.
  o 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.
  o 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
  o 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
  o Allowing for upstream-downstream queries is nearly there too, just waiting on developer time
    ▪ https://gist.github.com/jkreft-usgs/f8a1f7da4d083b911f6e3ea56e71873.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
  o EPA Office of Water: Facilities that Discharge to Water NHDPlus Indexed Dataset - should be indexed shortly
  o 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 Slawecki 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