

USGS National Hydrography Dataset Newsletter

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Current NHDPlus High Resolution Documentation, and More Coming!

Contact: Al Rea (ahrea@usgs.gov)

To get the NHDPlus High Resolution (NHDPlus HR) data out to users as soon as possible, the data was released as soon as it was ready. Unfortunately, that meant releasing the data before the documentation was completed for distribution. An NHDPlus HR User Guide that will provide more information about what is contained in the NHDPlus HR download files is currently under development and will be available on the [USGS Hydrography website](#) as soon as it is completed.

For now, several pieces of documentation are available:

The [NHDPlus HR Data Model v1.0 poster](#) is available with details about dataset structure, feature classes, domains, and relationships.

An [NHDPlus HR Data Dictionary](#) is available on the [NHDPlus HR webpage](#).

The NHDPlus HR is very similar structurally to the [NHDPlus Version 2](#), for which a great deal of documentation is available. While not all aspects of the data are identical, nearly all concepts are applicable to the NHDPlus HR. See the “Learn More” tab on the [US EPA NHDPlus website](#) for documentation, training presentations, and exercises. Also, a series of [video presentations](#) from a July 2016 workshop on NHDPlus Version 2 is available from the [California Department of Water Resources](#).

USGS National Hydrography Presentations at the Esri User Conference

Contact: Becci Anderson (rdanderson@usgs.gov)

Several USGS presentations on the NHD, WBD, and NHDPlus HR will be given at the Esri User Conference held July 10-14, 2017 in San Diego. The USGS can only send a limited number of employees to the conference, and we are excited that USGS National Hydrography presentations will be given by two people very knowledgeable on these subjects - Drew Decker and Pete Steeves! Below is a quick overview of what’s available and when.

(please note, only USGS presentations regarding hydrography mapping are listed - please be sure to search the agenda for other hydrography presentations)

In addition to the presentations, there is also a [Water Resources Special Interest Group \(SIG\) meeting](#) on Thursday, July 13 from 12 PM - 1:00 PM in Room 23 B.

[Watershed Mapping Techniques Using GIS \(Session information and abstracts\)](#)

Tues, July 11, 2017

8:30 AM - 9:45 AM

Room: 24 B

- Harmonizing Binational Watersheds and Hydrography: Status & Update

[NHD Briefing \(Session information and abstracts\)](#)

Wed, July 12, 2017

10:15 AM - 11:30 AM

Room: 23 B

- The National Hydrography Dataset: What Can It Do for You?
- National Hydrography Dataset Plus High Resolution (NHDPlus HR) Status
- NHDPlus High Resolution (NHDPlus HR) New Applications and Developments

[National Mapping - National Watershed, Hydrography and 3D Datasets \(Session information and abstracts\)](#)

Wed, July 12, 2017

3:15 PM - 4:30 PM

Room: 28 E

- The Watershed Boundary Dataset: A National Hydrologic Framework Layer

[Water Resource GIS Tools: Beyond the NHD \(Session information and abstracts\)](#)

Thurs, July 13, 2017

8:30 AM - 9:45 AM

Room: 25 A

- The U.S. Geological Survey StreamStats Web Application

New NHDPlus HR QC Interest Form Available on NHDPlus HR Website

Contact: Tatyana DiMascio (tdimascio@usgs.gov)

There is a new [NHDPlus High Resolution QC Interest form](#) available in the 'How can I help with NHDPlus HR?' section of the [NHDPlus HR webpage](#). Please fill out the form if you are interested in participating in QC work for any of the current NHDPlus HR Beta products or upcoming releases. The form will capture basic contact information and geographic area of interest. This information will help USGS to contact partners interested in supporting the QC work as their area of interest comes up in the production queue.

If your organization blocks Google Forms or you are unable to access the QC Interest Form, please contact Tatyana DiMascio (tdimascio@usgs.gov) to communicate your information.

NHD Update Process Training

Contact: Joel Skalet (jskalet@usgs.gov) and Bill Smith (wjsmith@usgs.gov)

It's never too late to join us for online training in the coming months! The NHD training schedule can be found on the [Events Calendar](#) on the Hydrographic Data Community.

If there is an [NHD Principal Steward](#) in your state, please contact the Principal Steward for approval prior to submitting a request for training. NHD training consists of three courses: NHD Basics, and NHD Update Tools parts 1 and 2.

NHD Basics is a prerequisite class that all attendees are required to complete prior to moving to NHD Update Training sessions. Training begins at 10:30 am ET and runs for approximately 2 and a half hours. This session covers: History of the NHD, stewardship, resolutions of the NHD, the NHD data model, permanent identifiers in the NHD, reachcodes in the NHD, flow network in the NHD, important NHD websites, supporting software, NHD user guide, NHD user accounts, the Hydrographic Data Community (HDC), and checking out data. Please contact your Regional POC to schedule training.

NHD Update Tools Training Part 1 begins at 10:30 am ET and runs for 5 hours (breaks included). This course includes a review of the entire editing process and a complete discussion of the NHD Update Toolbar, including loading data, Initial QC, Reviewer table, resolving 'Invalid Geometry', and using the tool to add geometry, modify geometry and attributes, delete geometry, import geometry, and vertical relationships.

NHD Update Tools Training Part 2 begins at 10:30 am ET and runs for 5 hours (including breaks). Part 2 is a follow up to part 1 and includes a review of the Reviewer table, a review of Initial QC, Severity 1 versus Severity 3 errors, discussion of the errors one might see in the NHD and how to resolve those errors. We will then discuss Final QC and uploading your edits to the NHD National Geodatabase.

The current training being conducted is using ArcGIS 10.3.1. The next NHD Training will be on August 3rd, 10th and 24th.

For more information about this training please contact your [USGS Regional NHD POC](#) or Joel Skalet (jskalet@usgs.gov, (608) 238-9333 x 152). For access to the [Hydrographic Data Community \(HDC\)](#) site, please contact Lily Niknami (lniknami@usgs.gov).

National Hydrography Dataset Plus High Resolution Update

NHDPlus HR Production Status

Contact: Ariel Doumbouya (atdoubouya@usgs.gov), Ellen Finelli (elfinelli@usgs.gov)

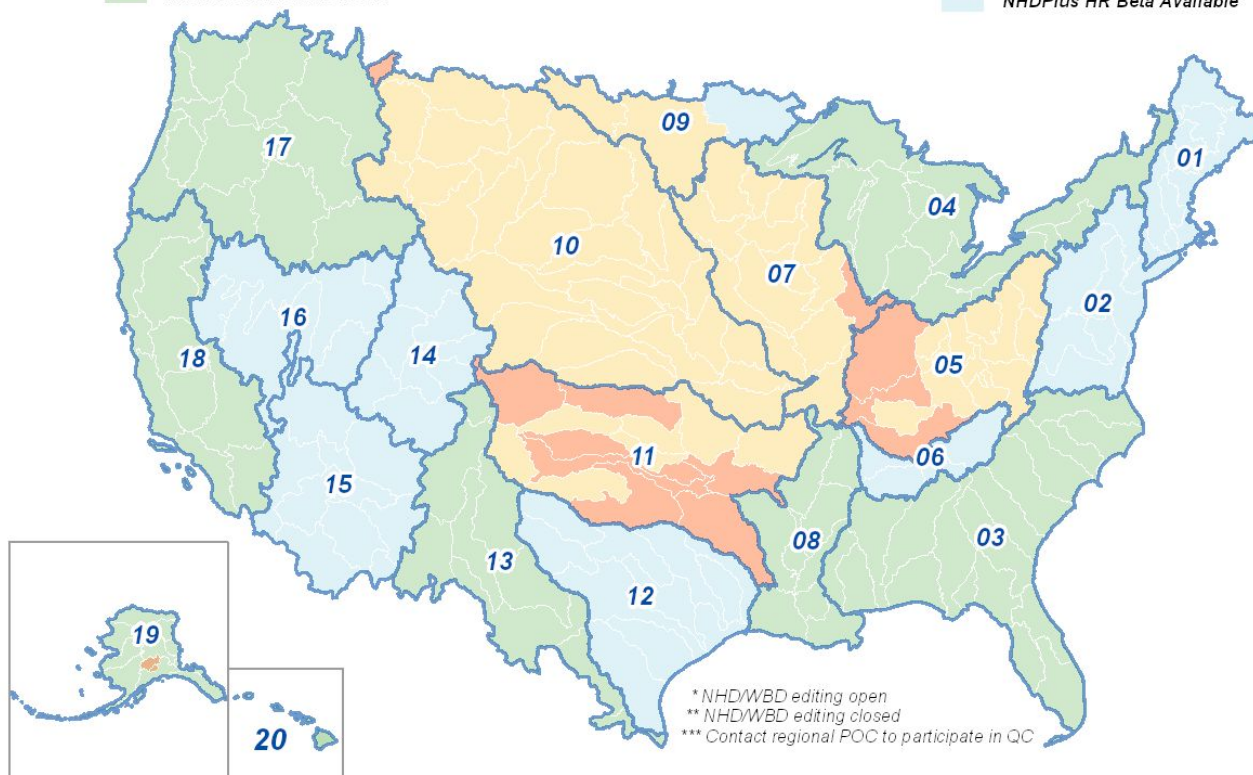
The map below provides a general overview of the NHDPlus HR Beta production process. This information is also available on the [“NHDPlus HR Beta review/QC”](#) section of the [NHDPlus HR webpage](#).

- Green areas - NHDPlus HR Beta will be produced at a later date. These areas are currently open for NHD and WBD editing.
- Orange areas - The NHD and WBD in these areas are in NHDPlus HR production and are closed for NHD and WBD editing.
- Yellow areas - The NHDPlus HR is in production and review/QC will be in progress soon. The USGS is seeking volunteers for the NHDPlus HR Beta review/QC for these areas. Please see the “New NHDPlus HR QC Interest Form Available on NHDPlus HR Website” section above for more information on the review/QC, or visit the [NHDPlus HR Beta review/QC](#) section of the NHDPlus HR webpage for more information.
- Blue areas - NHDPlus HR Beta is currently available and review/QC may be in progress. Please see the “New NHDPlus HR QC Interest Form Available on NHDPlus HR Website” section above for more information on the review/QC, or visit the [NHDPlus HR Beta review/QC](#) section of the NHDPlus HR webpage for more information.

Please contact your [USGS NHD Regional Point of Contact](#) or [USGS National Map Liaison](#) if you have questions about the status of your regional area or state.

NHDPlus High Resolution (NHDPlus HR)

- Hydrologic Regions (HU2)
- NHDPlus HR Future Work*
- NHDPlus HR Beta in Production**
- NHDPlus HR Beta QC Coming Soon***
- NHDPlus HR Beta Available



U.S. Department of the Interior
U.S. Geological Survey

Numbers represent Watershed Boundary Dataset (WBD) 2-digit hydrologic unit codes (HU2).

Date updated: 6/29/2017

Hydrography Photo of the Month

This month's photo, taken by Danielle Bruno-Favreau, is of Shoshone Falls on the Snake River in Idaho. The photo was taken in a generally easterly direction on June 17, 2017. At 212 feet, the falls are higher than Niagara Falls, and often call the “Niagara of the West”. Due to Idaho’s very high water year, the falls were still roaring even in June!

More on Shoshone Falls: https://en.wikipedia.org/wiki/Shoshone_Falls



We’d love to see photos of the hydrology near you or from your travels! Please send submissions to Becci Anderson (rdanderson@usgs.gov). Check out current and past photos at https://nhd.usgs.gov/photo_month.html

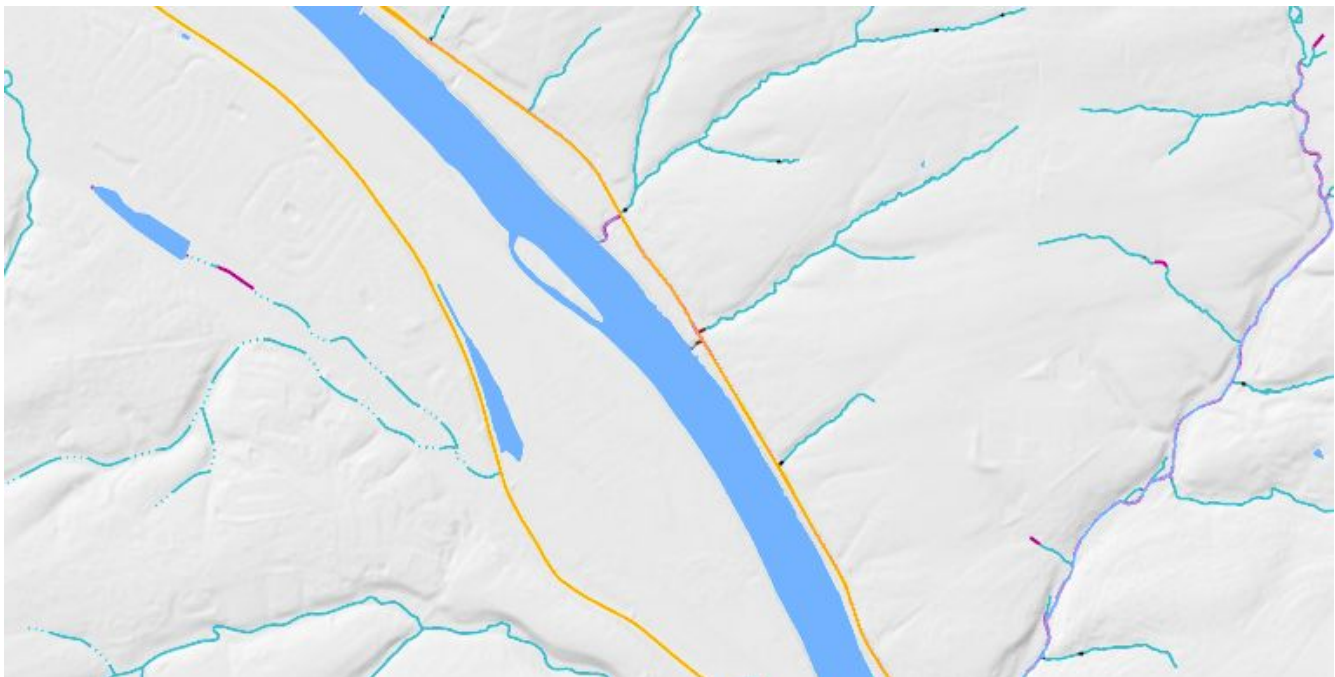
Hydrography Quiz

Congratulations to **Becky Schaffner** as the first to respond to last month's quiz with the correct answer - the **Green River!** Becky is a GIS Coordinator in the Water Quality Bureau of the Maine Department of Environmental Protection, and a state NHD steward. Before moving to Maine in 2014, she worked in Orange County, CA as a GIS Specialist at Southern California Coastal Water Research Project, and also served as an NHD Steward for the Santa Ana River watershed. Becky assists DEP staff with any and all GIS needs, especially collecting and analyzing environmental monitoring data, and maintaining Maine's water quality classification GIS layers, which are based on the NHD. She feels lucky to have lived in two states with such completely different, but equally interesting hydrologic systems. Well done, Becky!

Congrats also go out to our other respondents with the correct answer: Calvin Meyer, Steve Shivers, Kitty Kolb, Jill Templeton, Jim McDonald, Ellen Lesch, Chris Highfield, Matt Rehwald, Chris Brown, and Roger Barlow.

New Quiz (By Lily Niknami and Alex Kaufman): Happy 4th of July! The Declaration of Independence was ratified six months before the dangerous, dark passage over this river took place, which is celebrated in a famous painting. What is the river?

Bonus riddle (From Rohn Anderson): Where was the Declaration of Independence signed?



Send your answers with an email subject including the phrase "Hydro Quiz" to Becci Anderson (rdanderson@usgs.gov). Happy hydro hunting!

Upcoming USGS Hydrography Calls, Trainings, and Meetings

Date	Time	Event
July 13	TBD	Hydrography Event Management (HEM) Training
July 25	1:00 pm ET	NHD/WBD Advisory Call
Aug 3	10:30 am ET	NHD Basics Training
Aug 10	10:30 am ET	NHD Update Tools Training (editing) Part 1

To be added to the NHD/WBD Advisory Call email list, please contact Becci Anderson (rdanderson@usgs.gov).

For more information on technical exchange meetings and trainings, please see the [Hydrographic Data Community \(HDC\)](#) site. For access to the HDC site, please contact Lily Niknami (lniknami@usgs.gov).

Thank you to this month's USGS National Hydrography Dataset Newsletter contributors:

Tatyana DiMascio, Joel Skalet, Bill Smith, Ellen Finelli, Ariel Doumbouya, Lily Niknami, Alex Kaufman, Al Rea, Sue Buto, and Becci Anderson.

Join Our Community!

For more information, to sign up for the newsletter, or to contribute, please contact Becci Anderson, USGS National Hydrography Co-Lead, at rdanderson@usgs.gov.

Visit us anytime at nhd.usgs.gov and follow us on Twitter @USGSNHD

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