

USGS National Hydrography Dataset Newsletter

Vol. 18, No. 2, February 2019

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Updates to the Markup Application

Contact: Tatyana DiMascio (tdimascio@usgs.gov)

USGS released several updates to the Markup Application in February. The updates were:

1. Users with Advanced NHD or WBD roles now have an option to submit a markup as a Standard Editor. When Advanced editors create a markup they will see a checkbox “Submit this markup as “In Progress”?” above the Save button. If you uncheck this checkbox then the markup will get saved as “submitted” and will go through the validation step before the edit takes place. Please use this option if you have an Advanced NHD or WBD role but you are submitting a markup outside of your area of expertise and you would like it to go through the review.
2. The application now allows users to select multiple features and apply markup information to all of them simultaneously. When you identify multiple features for markup by dragging a box in the map view, you will see check boxes next to the “Features Found”. You can check several features, then populate the markup information once. The application will auto generate a markup for each of the selected features.
3. A traditional map scale is now displayed next to the Zoom level to help users understand the display scale they are working with.
4. NHDPlus HR Wall Layer is now available for markups. Since this layer gets generated from WBD boundaries, users will not be able to create “delete” or “update feature” markups. However, it will be possible to create a markup to suggest an attribute change or to provide a comment.

New Mexico NHD/WBD MOU 2019

Contact Ray Postolovski (rpostolovski@usgs.gov) and Joel Skalet (jskalet@usgs.gov)

The NHD/WBD Memorandum of Understanding between the New Mexico Environment Department (NMED), through its Office of Information Technology, and the United States Geological Survey has been signed and posted. In signing this agreement, the NMED agrees to partner with the USGS to maintain and update the NHD. NMED and the USGS agree to have an interest in providing current, accurate and consistent surface water geospatial data to meet the requirements of the National Spatial Data Infrastructure (NSDI), to support The National Map (TNM), and to support the New Mexico end user needs for hydrographic data. We welcome NMED into this Hydro Community. Including NM, we now have 41 NHD Stewardship Agreements (20 jointly with the WBD).

Requesting Code Reviewers for HEM Tool

Contact: Michael Tinker (mdtinker@usgs.gov)

We are looking for code reviewers. HEM code will be published to GitHub and made available to the public. Part the process involves a technical/code review to ensure overall code quality. To that end, we are seeking reviewer(s) to help us evaluate the software before public release.

The code reviewer(s) should be familiar with the following technologies:

- Visual Basic/ .NET framework
- ArcObjects (Esri API for GIS software development)
- Esri GeoDatabase Technology

The review of the code would include the following quality checks:

- Application Security
- Error Handling
- Performance
- Resource Leaks
- Functions/Methods
- Comments
- Coding Conventions

We are reaching out in hopes of connecting with development professionals willing to assist us.

Please contact Michael Tinker, mdtinker@usgs.gov, if you are interested. Thank you!

New Release of NHD Update Tool Coming Soon

Contact: nhd@usgs.gov

An enhanced and improved NHD Update Tool will be coming your way soon! The new build will be compatible with ArcGIS 10.5.1 and will address security concerns as well as provide improved efficiency to the editing process.

NHDPlus HR Ingredient Dataset Status - WBD 4-digit Improvement Project

Contact: [Kimberly Jones \(kjones@usgs.gov\)](mailto:kjones@usgs.gov), [Lily Niknami \(lniknami@usgs.gov\)](mailto:lniknami@usgs.gov)

The WBD 4-digit Improvement Project is identifying and correcting hydrologic unit boundary issues in the WBD at the 4-digit level in support of NHDPlus HR production. Instances where the NHD and WBD intersect are being reviewed and invalid intersections are being addressed when appropriate. All proposed major updates to the WBD will be coordinated with the appropriate WBD state steward prior to implementation.

WBD 4-digit Improvement - Work Completed

- Regions - 01, 02, 03, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 20
- Pilot areas - 0903, 041504, 190204, and 190205
- Mexico contributing hydrologic units in Region 13
- Region 19 - 19020301, 19020302

WBD 4-digit Improvement - Currently In Work

- Region 04
- Canada contributing hydrologic units in Region 04
- Region 19 - 19020202, 19020601 and 19020602

WBD 4-digit Improvement - Future Work

- Regions - 19, 21 and 22

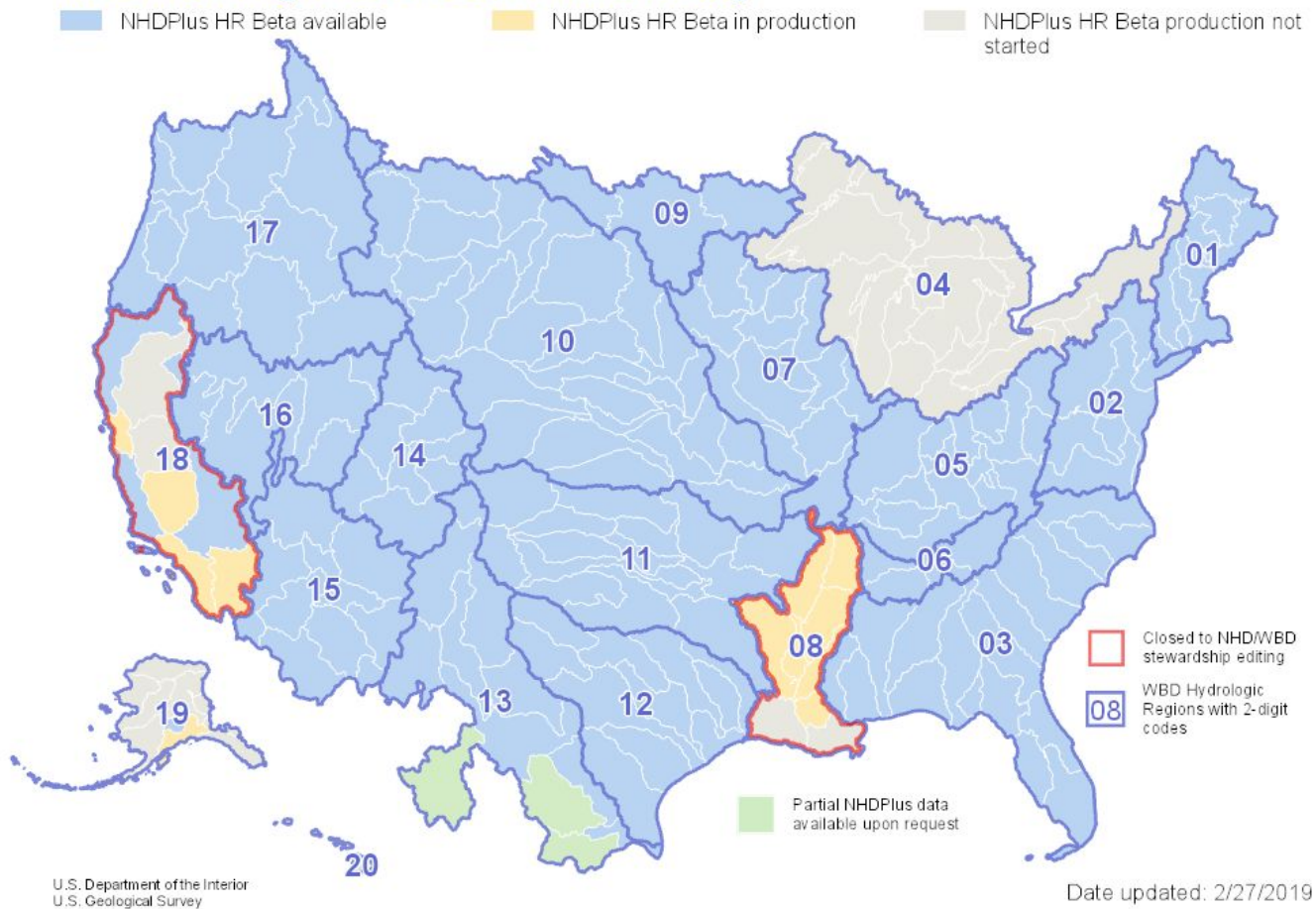
NHDPlus High Resolution Beta Production Status Update

Contact: Karen Adkins (kadkins@usgs.gov), Hayley Thompson (hnthompson@usgs.gov)

The map below provides a general overview of NHDPlus HR availability. This status map is updated frequently on the “Where is NHDPlus HR Available?” section of the [NHDPlus HR webpage](#).

- Blue areas - NHDPlus HR Beta is currently available and Beta QC is either in process or completed for these areas. Please see the [NHDPlus HR Beta QC](#) section of the [NHDPlus HR webpage](#).
- Yellow areas - The NHDPlus HR Beta is in production and the USGS is currently seeking volunteers for the upcoming Beta QC for these areas. Please see the [NHDPlus HR Beta QC](#) section of the [NHDPlus HR webpage](#) for more information. Please contact the [NHD/WBD Point of Contact](#) in your area for more information on the status of NHD and WBD editing in these areas.
- Gray areas - NHDPlus HR Beta will be produced at a later date. Please see the general processing schedule on the [NHDPlus HR webpage](#) for more information. These areas are currently open for NHD and WBD editing.
- Red outline - These areas are currently closed to NHD and WBD editing. Please contact the [NHD/WBD Point of Contact](#) in your area for more information.

NHDPlus High Resolution Availability



NHD Photo



This month's NHD Photo is contributed by John Kosovich showing the Bartlett Reservoir ([Reach 15060203001839](https://www.reach.gov/Reach/15060203001839)) on the Verde River in Arizona. The photo was taken in April, but note the low water levels.

NHD Quiz

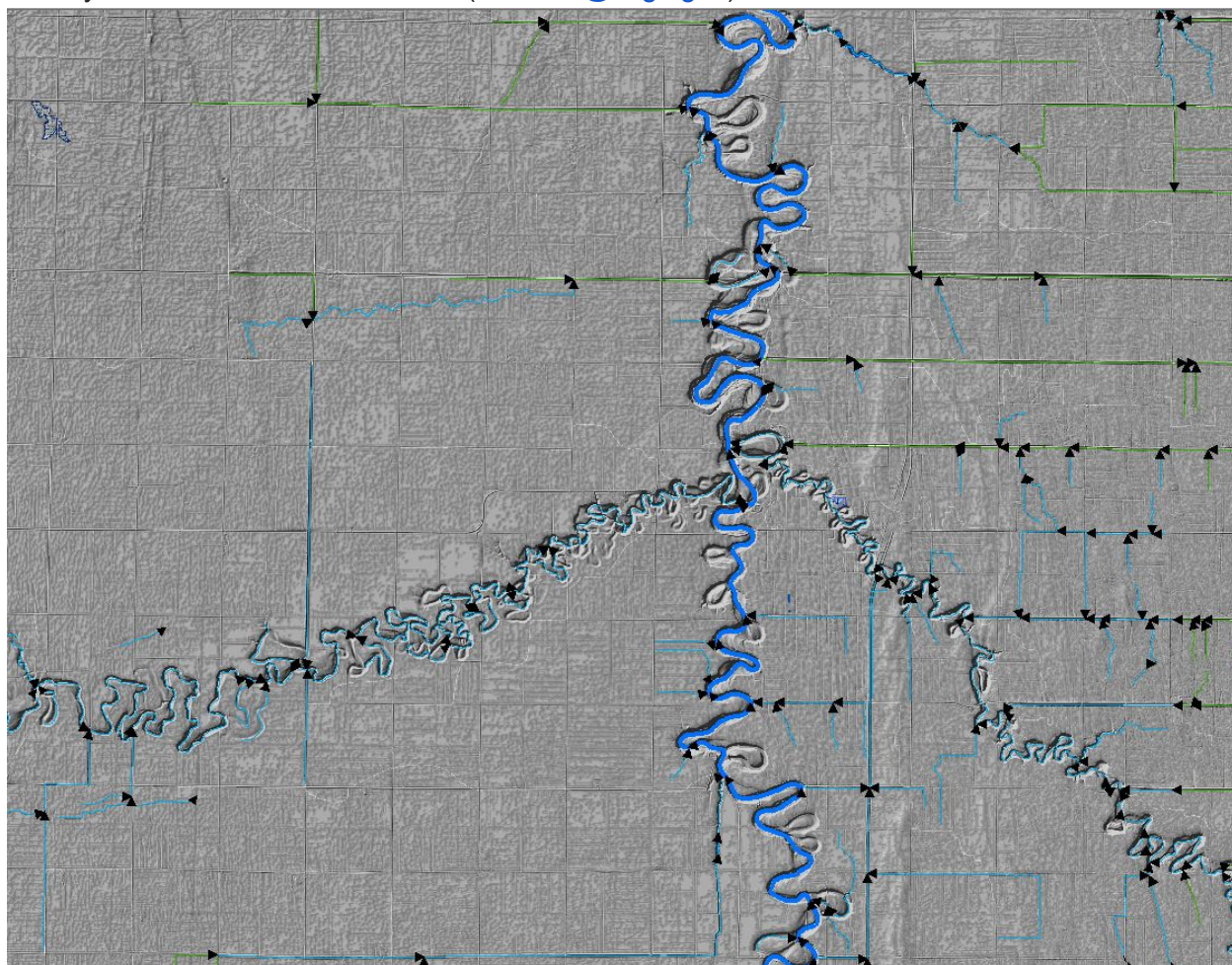
Contact: nhd@usgs.gov

Congratulations to Mitch Bergeson for being the first to correctly identify Susupe Lake on Saipan as the feature highlighted in last month's quiz. Mitch is the Dataset Manager for the National Wetlands Inventory, a sister layer to NHD in the FGDC Inland-Waters theme, that represents deepwater and wetland habitats of the U.S. and is managed by the U.S. Fish and Wildlife Service.

Others with the correct answer included Katherine Kolb, Steve Shivers, and Claire DeVaughan.

This month's quiz: The river depicted below flows northward, acts as a border between two states, and has some history of floods. What is this River?

Email your answer to Steve Aichele (saichele@usgs.gov)



Upcoming USGS Hydrography Calls, Trainings, and Meetings

Date	Time	Event
March 7	9:30 CST	NHD Basics Training
March 14	9:30 CST	NHD Update Tools Training (part 1)
March 20	11:00 CST	Intro to MyUSGS Collaboration Toolset
March 21	10:00 CST	HEM Training
March 26	Noon CST	National Hydrography Advisory Call

March 28	9:30 CST	NHD Update Tools Training (part 2)
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To be added to the NHD/WBD Advisory Call email list, please contact nhd@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, Lily Niknami, Karen Adkins, Hayley Thompson, Kimberly Jones, Mike Tinker, Alex Kaufman, Joel Skalet, Al Rea, Susan Buto, and Steve Aichele.

Join Our Community!

For more information, to sign up for the newsletter, or to contribute, please contact Steve Aichele, Acting National Hydrography Co-Lead, at saichele@usgs.gov.

Visit us anytime at usgs.gov/NatHydro and follow us on Twitter [@USGSNHD](https://twitter.com/USGSNHD)

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