

# USGS National Hydrography Dataset Newsletter

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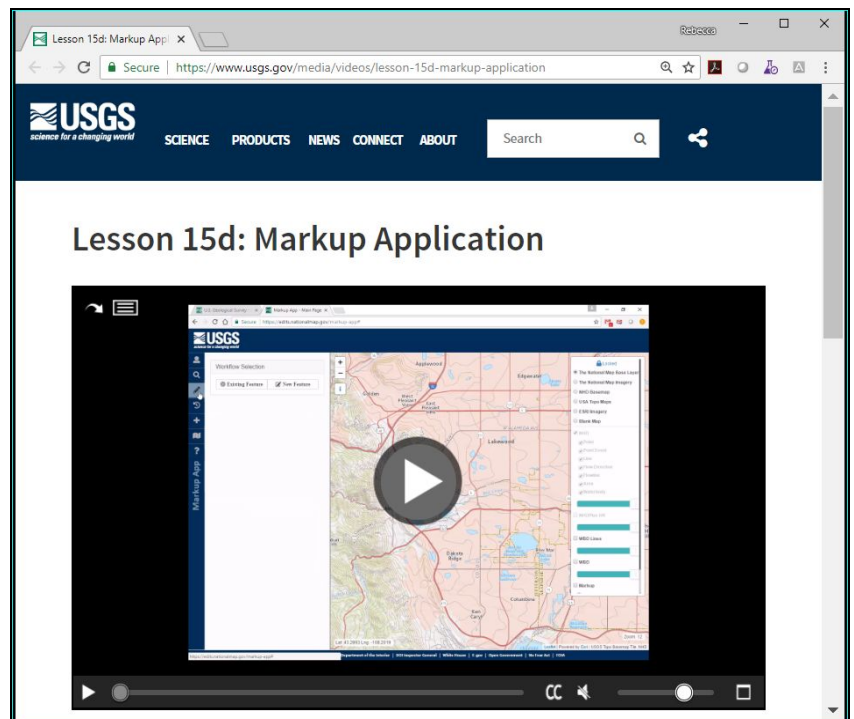
## Markup Application Updates!

Contact: Tatyana Dimascio ([tdimascio@usgs.gov](mailto:tdimascio@usgs.gov))

## Training Video for the Markup Application

A training video for the Markup Application is now available for viewing. The lesson covers how to access and navigate the Markup Application, create and delete your markups, add and navigate reference layers, and understand the life cycle of markups. The video can be found on [this USGS site](#) or on [Youtube](#).

USGS is working to develop a second lesson video that goes over functionality of the Markup Reviewer tool - an ArcGIS add-in tool used by the USGS and NHD and WBD stewards to review markups submitted through the web application. This video will be announced as soon as it is available.



## Summary Email Notifications for the Markup Application

USGS has implemented a notification system that sends out regularly scheduled emails summarizing the status of markups for NHD/WBD partners and individual Markup App users. Partners and Users received the first notifications from this system in early August.

NHD/WBD partner notification emails will be sent bi-monthly and will summarize the number of markups that need to be reviewed (“Submitted” status) or edited (“In Progress” status). NHD/WBD stewards who receive the notification but don’t have the capacity to perform validation and/or editing of NHD/WBD Markups can notify their USGS NHD/WBD POC. The Markup Reviewer tool is used to change markup status.

Users who submit markups will receive notification emails quarterly that will summarize the number of markups the user has in “Submitted” or “In Progress” status. In addition, the emails will provide information about how many of their markups changed status to “In Progress”, “Resolved”, or “Won’t Fix” during the last quarter.

If you need further assistance with the Markup Application or Markup Reviewer, please contact [markup@usgs.gov](mailto:markup@usgs.gov).

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## Farewell and Thank You from Becci

*Contact: Becci Anderson ([rdanderson@usgs.gov](mailto:rdanderson@usgs.gov), after Aug 28, contact Steve Aichele, [saichele@usgs.gov](mailto:saichele@usgs.gov))*

After several great years as the USGS National Hydrography Co-Lead, I’ve decided to move on to new adventures. It has been my pleasure to work with all of you to move National Hydrography forward, particularly our great work on the NHDPlus High Resolution. I’d like to thank my Hydro Leads Team colleagues - Al Rea, Sue Buto, Karen Adkins, and Steve Aichele - for their dedicated support and collaboration, and the amazing staff at the USGS National Geospatial Technical Operations Center for their continual pursuit of excellence in supporting and delivering world-class hydrography products and services.

My last day was August 29, and Steve Aichele ([saichele@usgs.gov](mailto:saichele@usgs.gov)) has graciously offered to act in a detail as the National Hydrography Co-Lead until my position is filled.

The NHD, WBD, and NHDPlus HR would not exist with the hard work and commitment of all of you - thank you for everything you do to make National Hydrography the best it can be!

*Take care,  
Becci*

## Many Thanks to Becci!

The Hydrography Team would like to sincerely thank Becci for all her hard work, creativity, and tenacity during her time with us. Since joining the team in 2016, Becci took a leading role in organizing and coordinating the diverse activities of the hydrography program including organizing monthly Advisory Team calls, redesigning the governance structure, wrangling the annual planning process, and keeping the community informed by overseeing the hydrography website and serving as the the NHD newsletter editor.

We owe a **BIG THANK YOU** to Becci for the energy, organization, excellent communications and the many other qualities she brought to the hydrography community. We are genuinely sorry to see Becci leave the team and we sincerely wish her all the best in her future endeavors. We will truly miss her!

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## NHD Book released

The book [GIS for Surface Water – Using the National Hydrography Dataset](#) has just been published by Esri Press. The book enables scientists, managers, and students to analyze the vital surface waters of the United States by combining the ready-to-use powers of the NHD and WBD with a GIS for geographic data analysis and mapping. This book explains how the NHD and WBD were created, how they can be used to study surface water systems, and how data about the water, such as chemistry and fish habitat, can be linked to this database. Furthermore, watersheds at the micro and macro level are discussed. The book demonstrates the use of water flow and velocity estimates for making maps that reveal the flow volumes for every segment in the 7.5-million mile drainage network in the U.S. With the development of this complete water information system, the reader is poised to generate new knowledge of the behavior of surface water systems.

Chapters in the book include (1) The Geography of Water, (2) Understanding Water, (3) Mapping Water, (4) Defining and Characterizing a Stream, (5) Exploring Hydrography Datasets, (6) Designing a Hydrography Dataset, (7) The NHD in ArcGIS, (8) The NHDPlus in ArcGIS, (9) The NHD on the Web, (10) Lidar and IFSAR Derived Elevation to Define Hydrography, (11) User Stories, and (12) The Future of Hydrography.

The book is 500 pages and is authored by Jeff Simley with contributions from many experienced users of the NHD and NHDPlus.

## NHDPlus High Resolution Beta Production Status Update

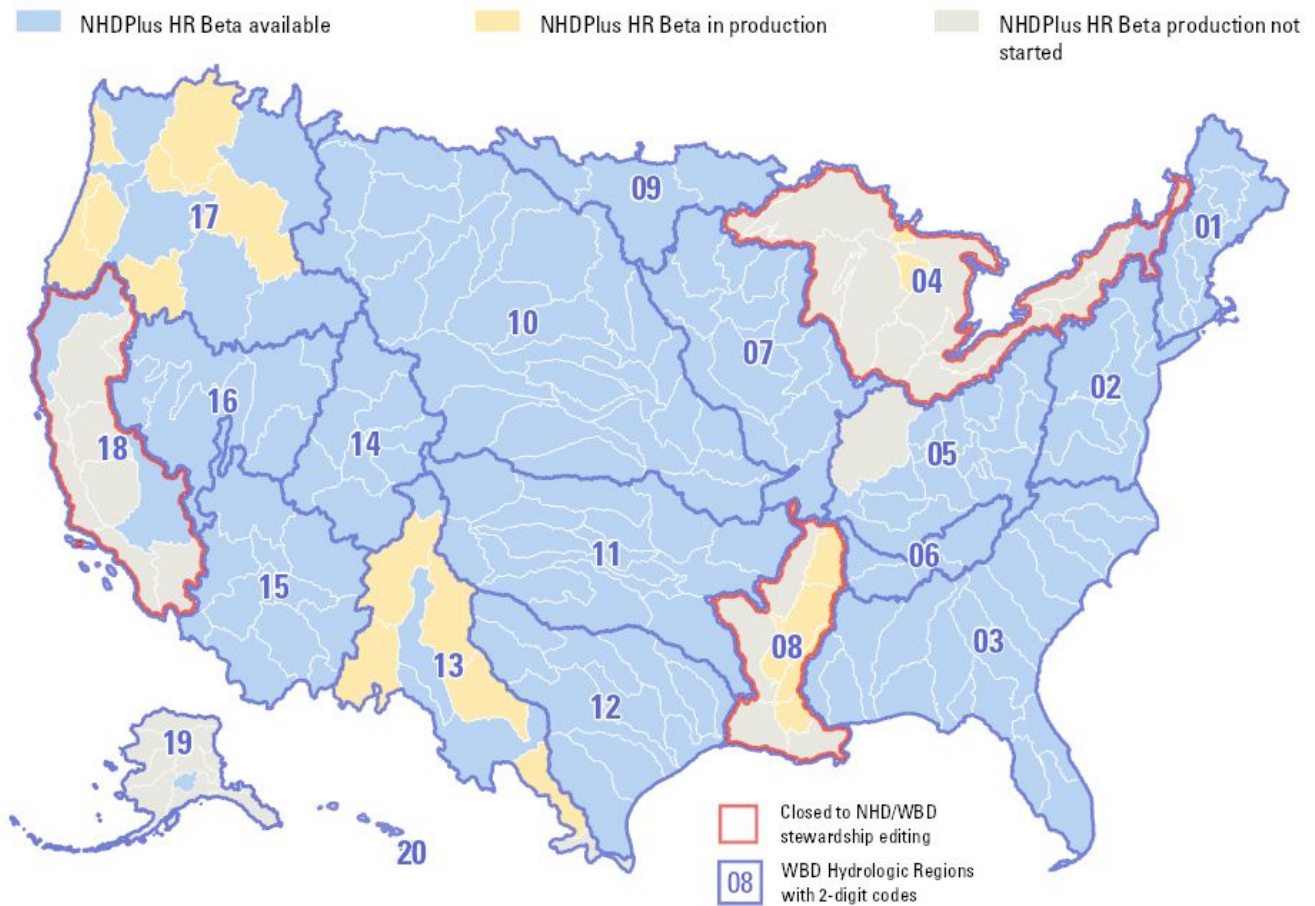
### NHDPlus HR Availability

*Contact: Karen Adkins ([kadkins@usgs.gov](mailto:kadkins@usgs.gov)), Hayley Thompson ([hnthompson@usgs.gov](mailto: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



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

Date updated: 8/28/2018

## NHDPlus HR Component Dataset Status Updates

### *NHD Network Improvement Project*

*Contact: David Anderson ([danderson@usgs.gov](mailto:danderson@usgs.gov)), Hannah Boggs ([hboggs@usgs.gov](mailto:hboggs@usgs.gov))*

The Network Improvement Project identifies and corrects network and data quality issues in the NHD dataset. One of the key drivers for this work is to provide data ready for the production of NHDPlus HR. Coordination with appropriate NHD Points of Contact (POCs) will begin prior to onset of work. **Please Note: For all areas listed below, all new data will go through the QA/QC process as it becomes available.**

#### Work Completed

- Regions - 01, 02, 03, 05, 06, 07, 09, 10, 11, 12, 13, 14, 15, 16, and 17
- Pilot areas - 0903, 041504, 1902, 1801

#### Current FY18 Work

- Regions - 19 (Cook Inlet), 20, 21 and 22

#### Future Work - FY 19

- Region - 19, 04 (Great Lakes), 08 (Lower LA), 18

### *NHD Alaska Image Integration*

*Contact: David Anderson ([danderson@usgs.gov](mailto:danderson@usgs.gov)), Hannah Boggs ([hboggs@usgs.gov](mailto:hboggs@usgs.gov))*

The Alaska Image Integration project identifies and corrects locational data for NHD network and polygons within Alaska drainage areas that are expected to be used in US Topo products and have not been maintained by the Alaska State Steward. Many of the areas in Alaska have not been updated in decades and required some improvement. This project also affects the Network Improvement process by identifying changes that could affect NHDPlus HR Value Added Attributes (VAAs). A total of 82 8-digit HUs are complete with an additional 12 possible or in-work for FY18.

#### Current FY18 Work

- 19030403, 19030406, 19030407, 19030501, 19070402, 19070403, 19080301, 19090107, 19090109, 19090203, 19090205, 19090302, 19090303

### *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 identifies and corrects 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.

#### Work Completed

- Regions - 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17 and 18
- Pilot areas - 0903, 041504, 190204, and 190205
- Mexican contributing hydrologic units in Region 13

#### Currently In Work

- Canada contributing hydrologic units in Region 04

- Region 19 - 19020301, 19020302, 19020601 and 19020602

### Future Work

- Regions - 19, 20, 21 and 2
- 

## Hydrography Photo of the Month

This month's photo, by **Becci Anderson**, is a view of the McKenzie River Bar with Denali background, taken just west of Wonder Lake. Check out the area on [The National Map Viewer](#).



We'd love to see photos of the hydrology near you or from your travels! Please send submissions to Steve Aichele ([saichele@usgs.gov](mailto:saichele@usgs.gov)).

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## Hydrography Quiz

Congratulations to **David Straub** as the first to respond to last month's quiz with the correct answer - the **Missouri River** near **Atchison, Kansas** – home of amazing **Amelia Earhart!**

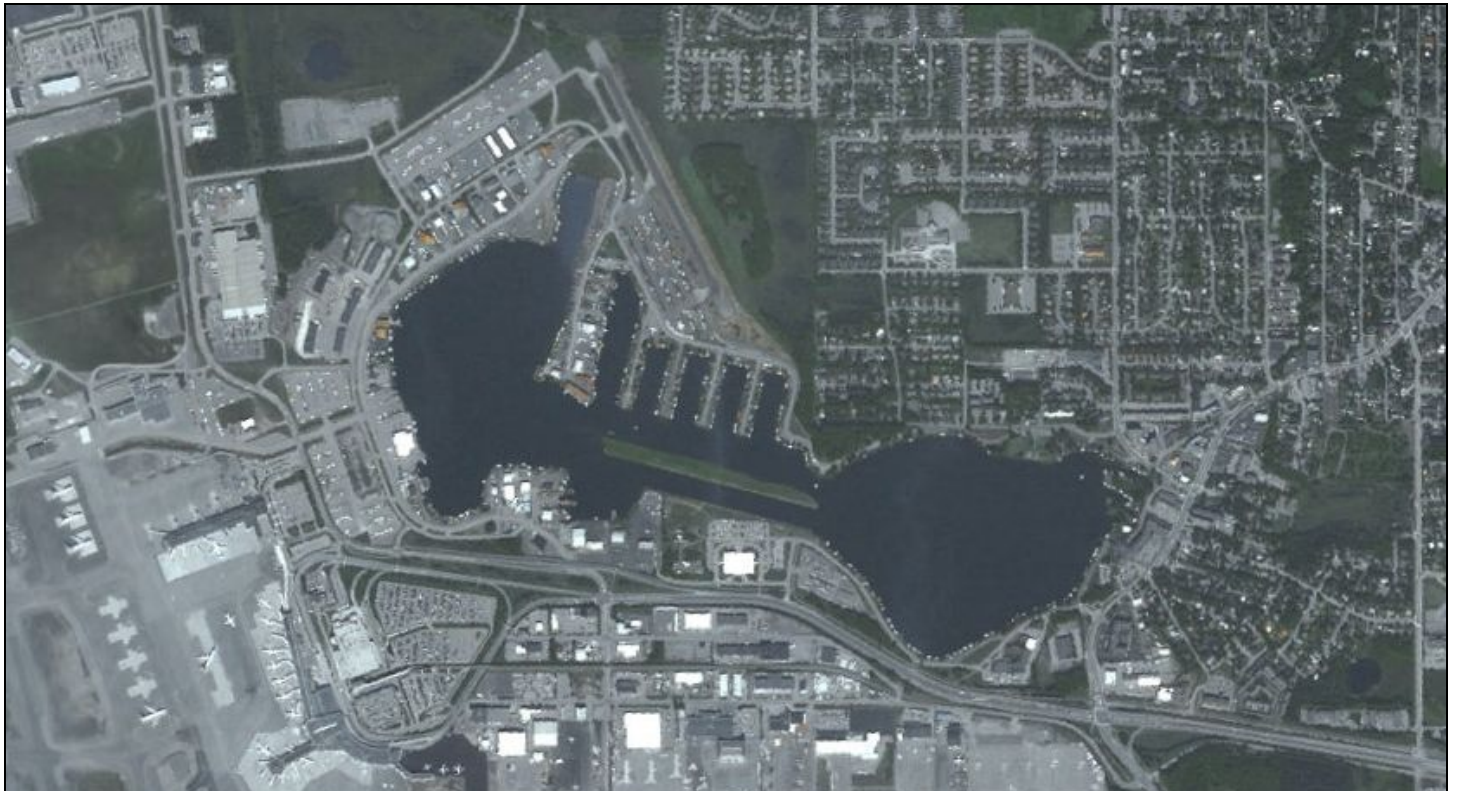
And, thanks to these other hydrophiles for playing along: Becca Conklin, Marc Weber, Barbara Rosenbaum, Janet Brewster, Steve Shivers, Jim McDonald, Joanna Wood, Frank Siano, Roger Barlow, Isaac Montague, David Nagel, Bryan Gonzales, Robert Thomas, Andy LaMotte, Gita Urban-Mathieux, Jim McDonald, Andrew Wilson, Elise Bowne, and Ellen Lesch.

### This Month's Quiz

Contact: [Alex Kaufman \(akaufman@usgs.gov\)](mailto:akaufman@usgs.gov)

Send responses to **Steve Aichele (saichele@usgs.gov)** with an email subject including the phrase "Hydro Quiz". Happy hydro hunting!

**Question: What Lake is the largest and busiest float plane base in the world?**



## Upcoming USGS Hydrography Calls, Trainings, and Meetings

Date	Time	Event
Sep 12	12:00 pm ET	WBD Technical Exchange Meeting
Sep 18	1:00 pm ET	NHD/WBD Advisory Call
Oct 3	12:00 pm ET	NHD Technical Exchange Meeting - <i>September TEM Cancelled</i>
Oct TBD	10:30 am ET	NHD Basic 101 Training
Oct TBD	10:30 am ET	NHD Update Toolbar Training - Toolbar Functionality
Oct TBD	10:30 am ET	NHD Update Toolbar Training - Quality Control

To be added to the NHD/WBD Advisory Call email list, please contact Sue Buto (sbuto@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).

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

Tatyana Dimascio, Lily Niknami, Karen Adkins, Hayley Thompson, Hannah Boggs, David Anderson, Kimberly Jones, Alex Kaufman, Joel Skalet, Al Rea, Susan Buto, Steve Aichele, and Becci Anderson.

### 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 [nhd.usgs.gov](http://nhd.usgs.gov) and follow us on Twitter @USGSNHD*

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