

Subcommittee on Spatial Water Data Report to the FGDC Coordination Group

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Open Water Data Initiative (OWDI) Roadmap

Open Water Web

Water Data Catalog	Water Data as a Service	Enriching Water Data	Community for Water Data, Tools
Find Source Data	Consensus Standards	Network Routing	Marketplace for Knowledge
Create Themes	Visualization and Delivery	Coupling Models	Usage Tracking
Recruit / Engage Partners	Catalog and Serve	Geospatial Framework	Best Practices

OWDI Use Cases



Use Case 1:

National Flood Interoperability Experiment

Completed



Use Case 2:

Drought Decision Support System



Use Case 3:

Spill Response Tool

Drought Use Case Work Group

Public release of USBR data portal: Reclamation Water Information System (RWIS)

- ❖ Access to current and historical USBR water data
- ❖ Machine readable data downloads
- ❖ Web services and API
- ❖ <https://water.usbr.gov/>

Reassignment of Angela Adams

- ❖ Need USBR participation on SSWD
- ❖ Need someone to lead Drought work group

Network Linked Data Index—Update

NLDI status

- ❖ Available data sources:
 - NHDPlus ComID
 - HUC12 pourpoints
 - NWIS sites
 - WQP sites
- ❖ In testing data sources
 - NJ sensor network
 - NPDES
- ❖ Basin delineation
- ❖ Basin characteristics – in testing
- ❖ ArcGIS wrapper for NLDI services – in testing

Water Quality Data Discovery

Using the Hydro- Network Linked Data Index



National Water Quality Monitoring Council

Working together for clean water

Water Quality Portal

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). It serves data collected by over 400 state, federal, tribal, and local agencies.

DOWNLOAD DATA

Download water-quality data in
Excel, CSV, TSV, and KML
formats.

HOW TO USE THE WQP

User Guide
Web Services Guide
FAQs
Upload Data

NATIONAL RESULTS COVERAGE

Water-quality data in your state.

ABOUT THE WQP

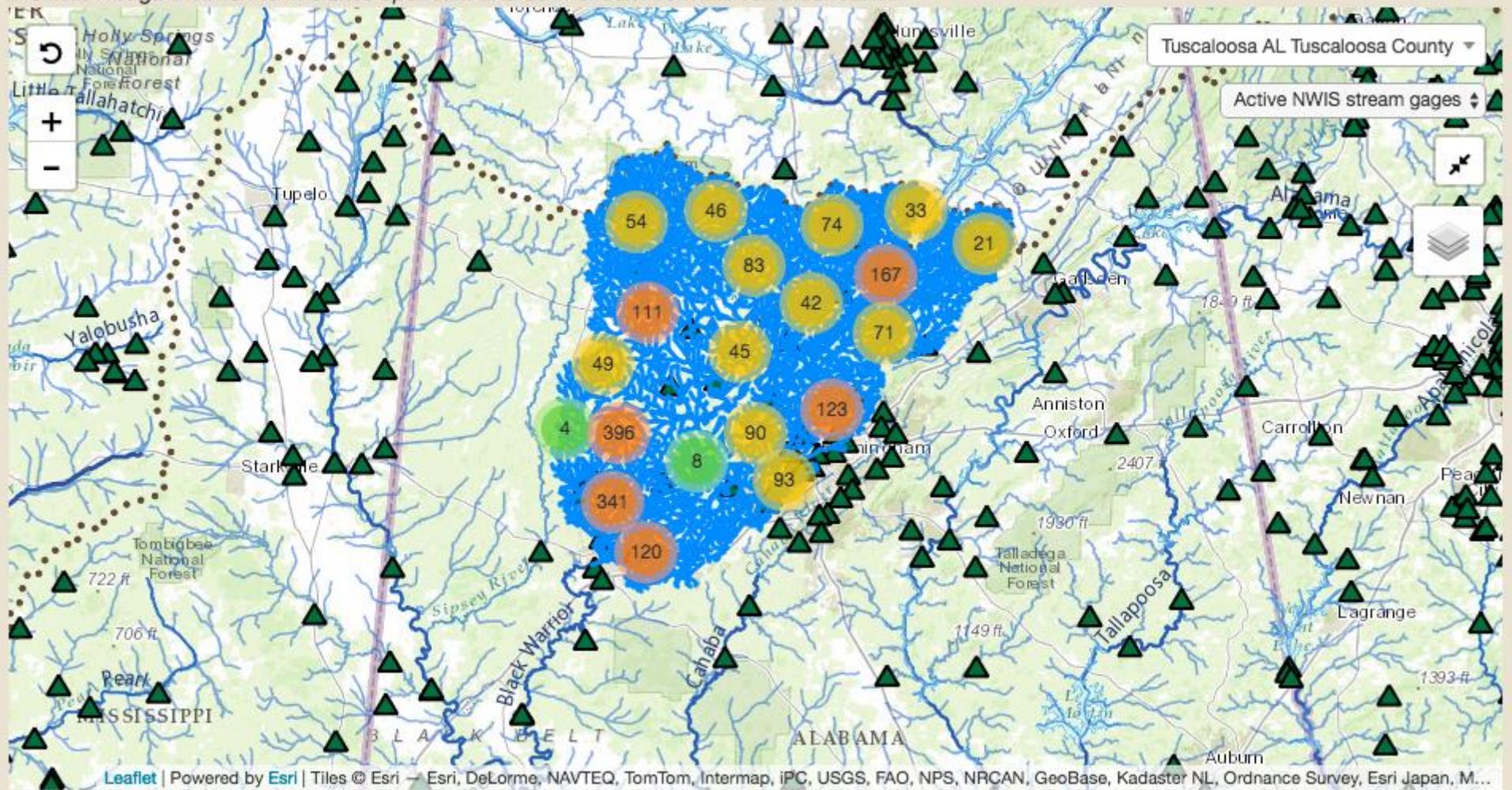
What is the WQP?
Contributing organizations
Other Water Quality Portals
Explore WQP Sites



Water Quality Data Discovery

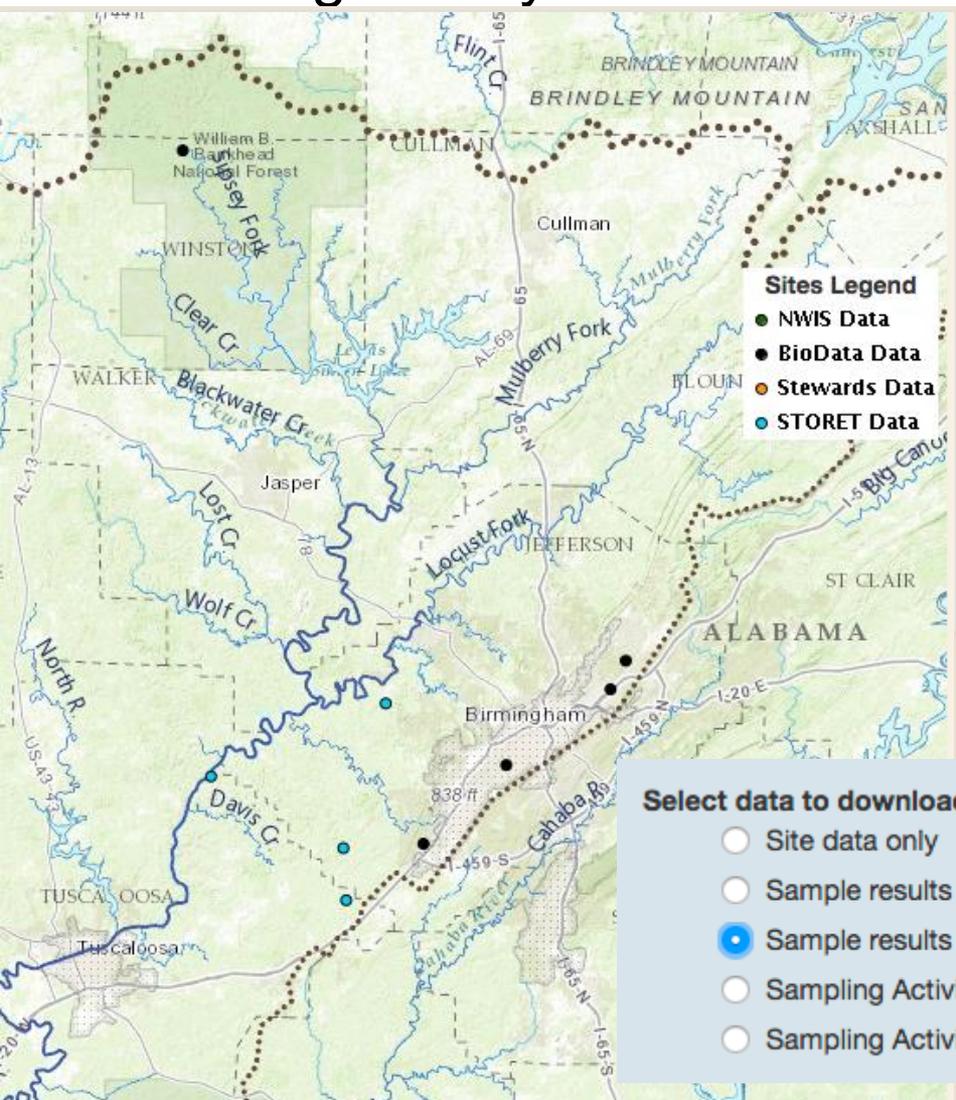
Using the Hydro-Network Linked Data Index

Zoom in to see the points to search up and downstream from. Click on a point, fill out the navigation type and optional distance in the popup, and then click the Navigate button to find sites upstream and downstream from the selected feature.



Water Quality Data Discovery

Using the Hydro-Network Linked Data Index



SAMPLING PARAMETERS

Sample Media:

Characteristic Group:

Characteristics:

Project ID:

Parameter Code:
(NWIS ONLY)

Minimum results per site:

Date range

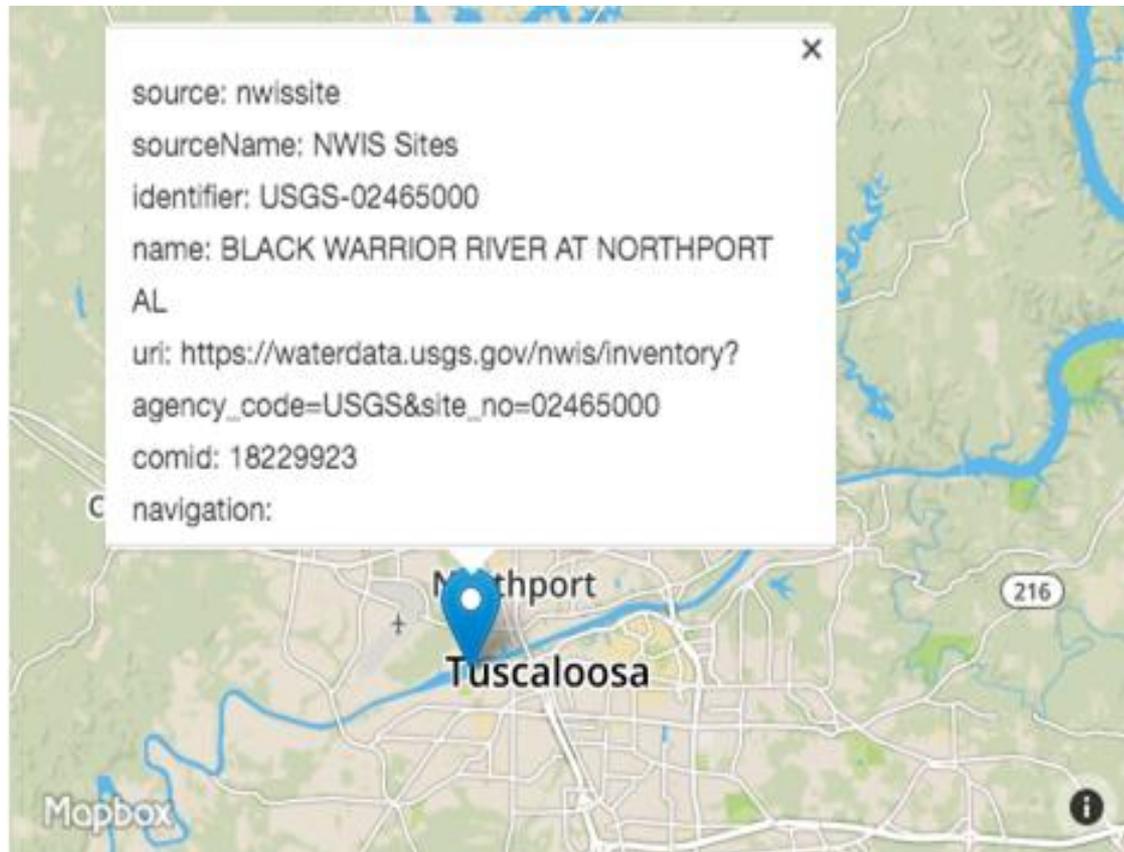
Select data to download:

- Site data only
- Sample results (physical/chemical metadata)
- Sample results (biological metadata)
- Sampling Activity
- Sampling Activity Metrics

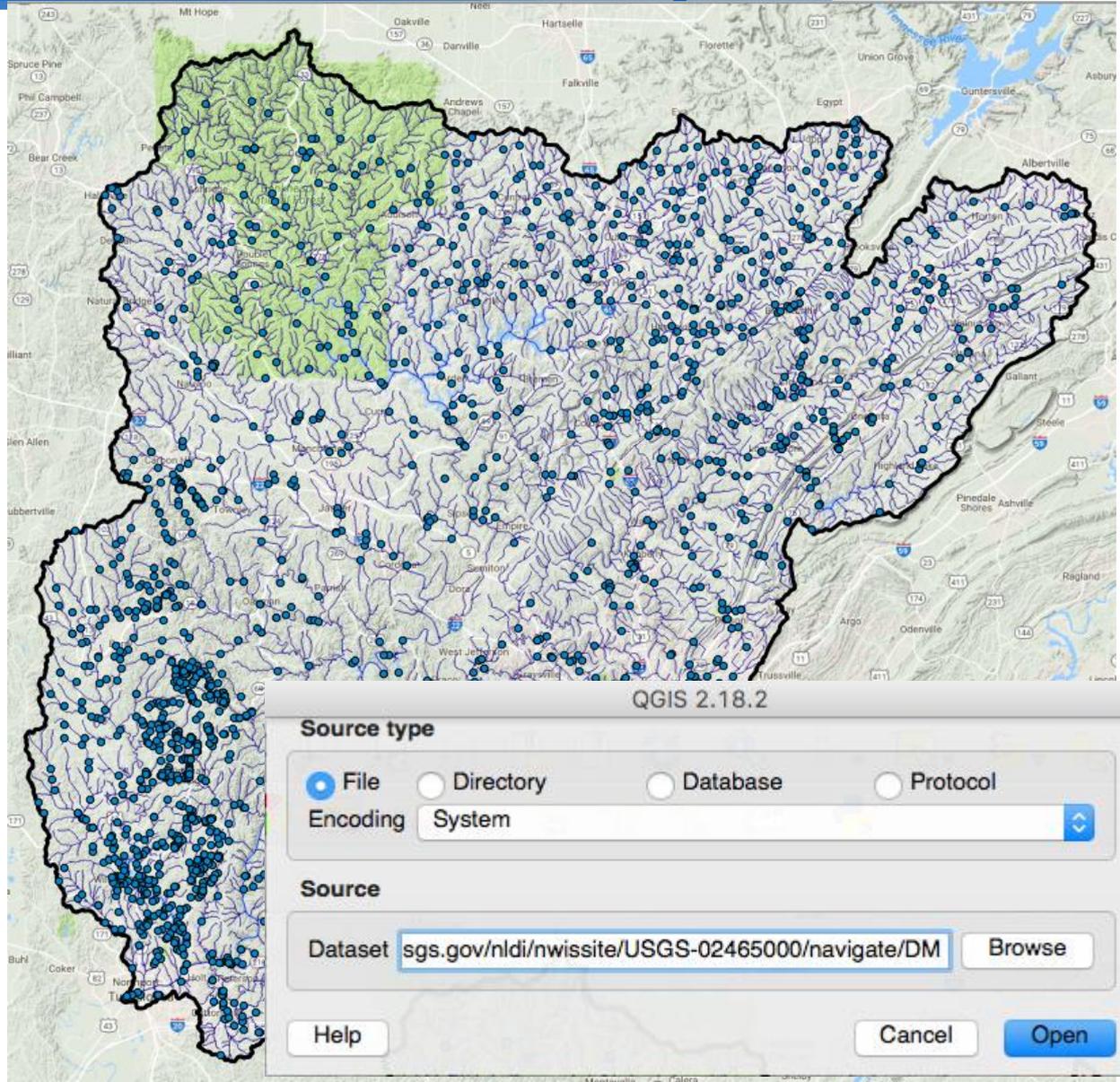
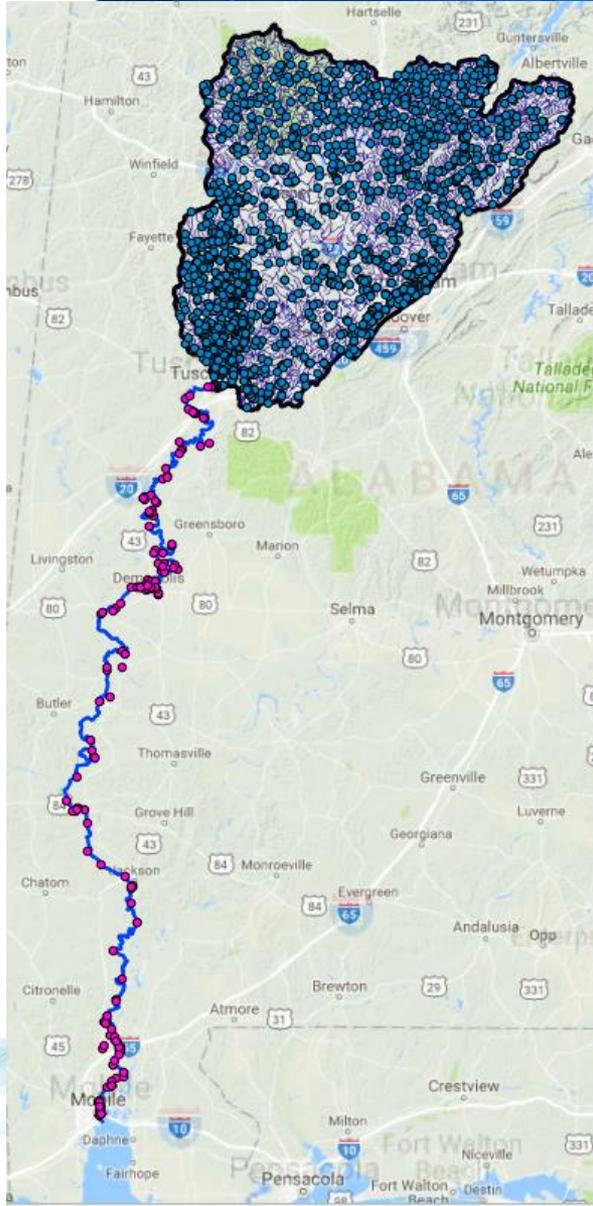
Your query will return **3,296** sample results from **7** sites:
From BIODATA: 3,175 sample results from 5 sites
From NWIS: 0 sample results from 0 sites
From STEWARDS: 0 sample results from 0 sites
From STORET: 121 sample results from 2 sites
Click Continue to download the data

NLDI NWIS Site

<https://cida.usgs.gov/nldi/nwissite/USGS-02465000>



<https://cida.usgs.gov/nldi/nwissite/USGS-02465000/navigate/UT>
<https://cida.usgs.gov/nldi/nwissite/USGS-02465000/navigate/UT/wqp>
<https://cida.usgs.gov/nldi/nwissite/USGS-02465000/basin>
<https://cida.usgs.gov/nldi/nwissite/USGS-02465000/navigate/DM>



QGIS 2.18.2

Source type

File Directory Database Protocol

Encoding: System

Source

Dataset:

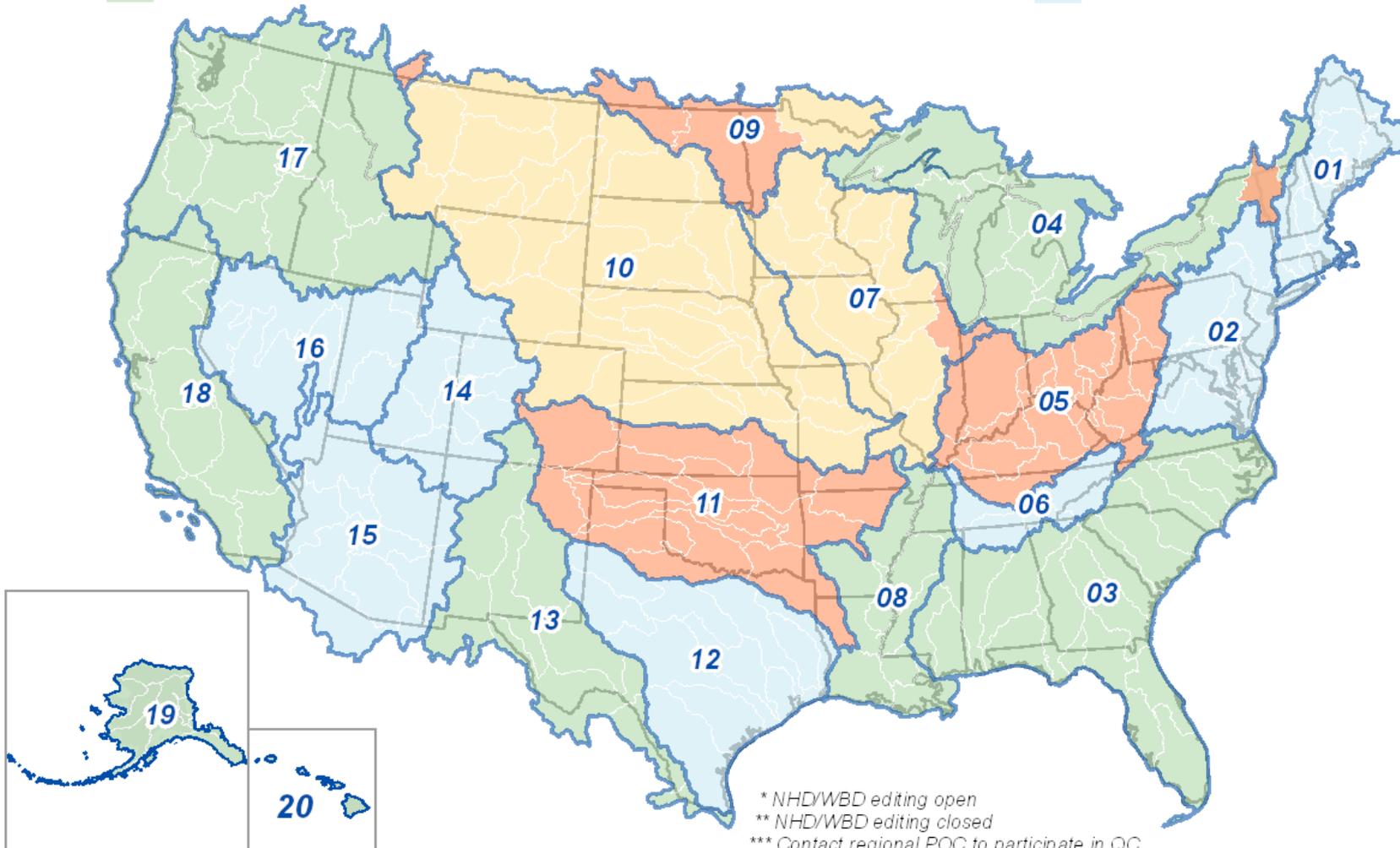
NHDPlus High Resolution Status

Public release of Beta products planned for this week

- ❖ 7 regions (> 25% of CONUS)
- ❖ Built using:
 - NHD-HR data at 1:24,000 scale or better
 - 10-meter 3DEP elevation
 - WBD
- ❖ Additional data will be released as completed by region
- ❖ Beginning Beta QC effort
 - Community participation is critical
 - New web-based Markup Tool will be used

NHDPlus High Resolution (NHDPlus HR)

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



* NHD/WBD editing open
 ** NHD/WBD editing closed
 *** Contact regional POC to participate in QC

Possible New Use Cases

Inland bathymetric data

- ❖ Strong interest from many parties in last call
- ❖ Short term – inventory existing bathy data, link to NHD
- ❖ Longer term
 - Data model and standards development
 - Strategy to acquire widespread bathy data

Aquatic Ecology

- ❖ Discussions in SSWD meetings
- ❖ Opportunity to engage another sector of users
- ❖ Exploratory working group forming
 - Membership recruiting
 - Initial scoping

Challenge:

Per DOI instructions:

Pause on all Advisory Committee activity
till September 1

For more information

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