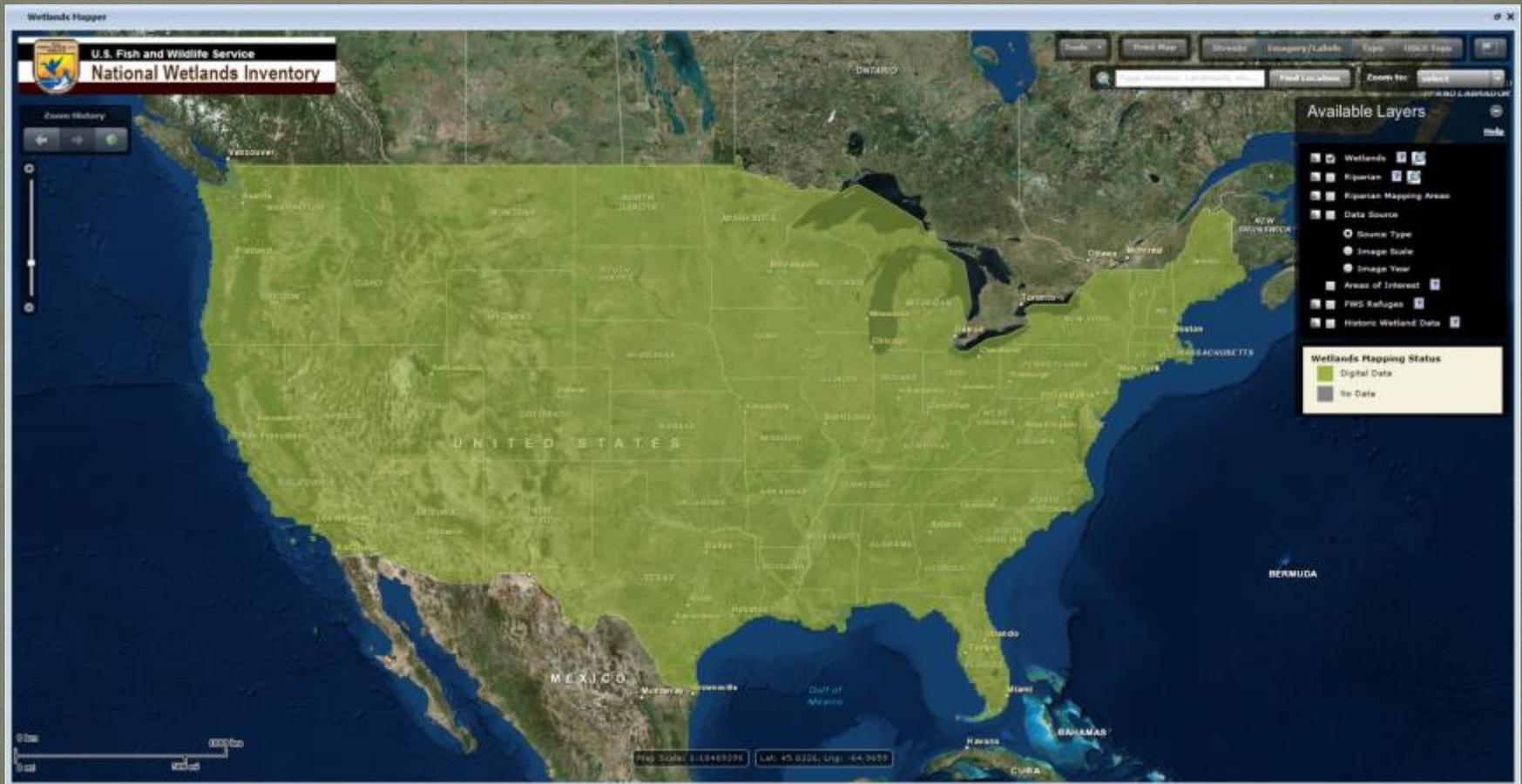


Wetlands Mobile & NWI – Version 2

Mitch Bergeson – Project Lead
National Standards and Support Team
Ecological Services
U.S. Fish and Wildlife Service
Madison WI

Wetlands Mapper – Flex Viewer



Wetlands Mapper – Flex Viewer



- Over 20 million polygons
- ~1,000 unique users /day
- ~500 maps downloaded/ day
- ~100 data downloads/day
- states and watersheds

Wetlands Mapper – Flex Viewer



U.S. Fish and Wildlife Service
National Wetlands Inventory

Available Layers

- Wetlands
- Riparian
- Riparian Mapping Area
- Data Source
 - Source Type
 - Image Scale
 - Image Year
- Area of Interest
- FWS Refuges
- Historic Wetland Data

Wetlands Mapping Status

- Digital Data
- No Data

NO ACCESS FOR:

- Mobile Devices
- Apple Devices
- Flex (Flash) is not supported

Wetlands Mapper – HTML5/Java

The screenshot displays the 'Wetlands Mapper' application interface. The title bar reads 'Wetlands Mapper'. Below the title bar, the 'National Wetlands Inventory' is displayed. The interface includes a search bar with 'Find' and 'Geosearch' buttons, and a 'Legend' button. The main map area shows the United States with wetlands highlighted in purple. The map is overlaid on a satellite-style basemap. The left sidebar contains a 'Map Layers' panel with the following options: 'Basemaps' (dropdown), 'Map Layers' (dropdown), 'Wetlands' (checked), 'Riparian' (unchecked), 'Riparian Mapping Areas' (unchecked), 'Data Source' (checked), 'Source Type' (radio button), 'Image Scale' (radio button), 'Image Year' (radio button), 'FWS Refuges' (unchecked), and 'Historic Wetland Data' (unchecked). The bottom left corner shows coordinates: '115,489,298' and '21,501 | -125,834'. The bottom right corner features the 'esri' logo and the text 'Powered by esri'. The map itself shows state boundaries and names, with wetlands concentrated in the Great Lakes region and along the West Coast.

Wetlands Mapper – HTML5/Java

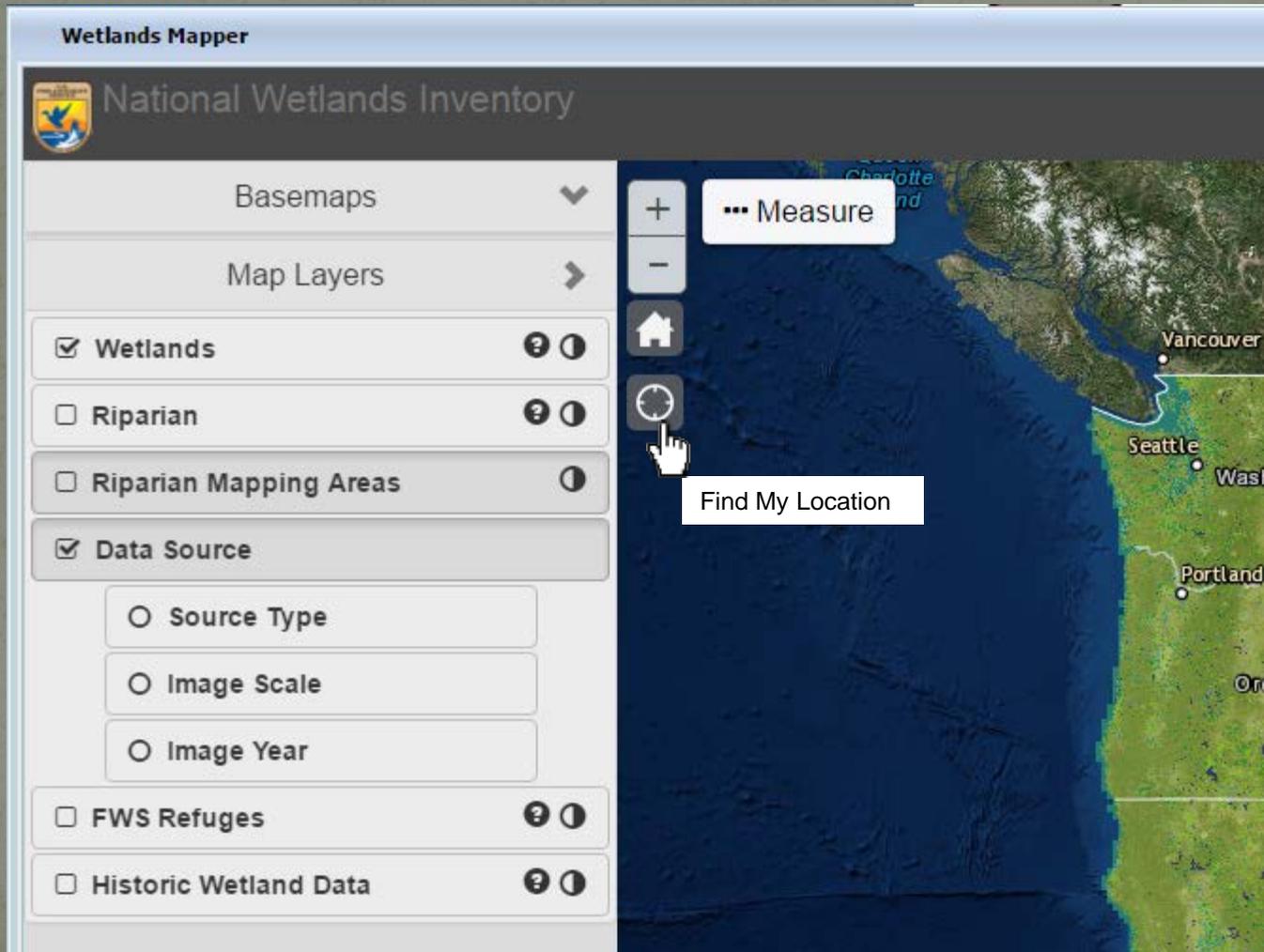


Wetlands Mapper – HTML5/Java



- Same functionality
 - Navigate, Identify, Print, Download
- Allows for use in Field
- Leverages GPS functionality

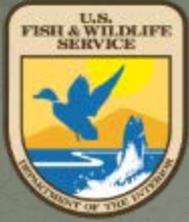
Wetlands Mapper – HTML5/Java



Wetlands Mapper – HTML5/Java



NWI – Version 2



NWI – Version 2: What

- Provides more inclusive geospatial data of all wetlands and surface water features.
- NWI – V2 is mostly a ‘**derived**’ dataset that depicts all surface water and wetland features in a single feature class
 - Retains the wetland and deepwater polygons from NWI
 - Reintroduces linear wetland features orphaned from original NWI hardcopy maps by converting them to narrow polygonal features
 - Supplements the dataset with buffered hydrographic linear data that were missed by NWI mapping or to complete segmented connections
 - Applies the Cowardin classification system to provide consistent ecological descriptors (2nd Edition, 2013).

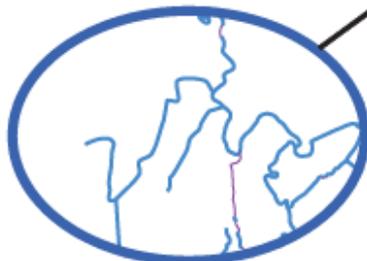
National Wetlands Inventory Version 2



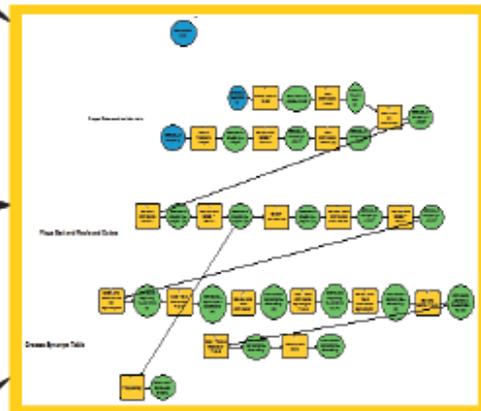
**National Wetlands Inventory
polygon features**



**National Wetlands Inventory
linear features**



**Hydrography
linear features**



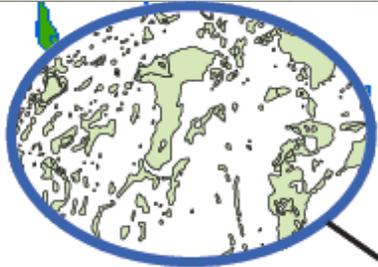
**ESRI Data Model
481 logical and topological processes**



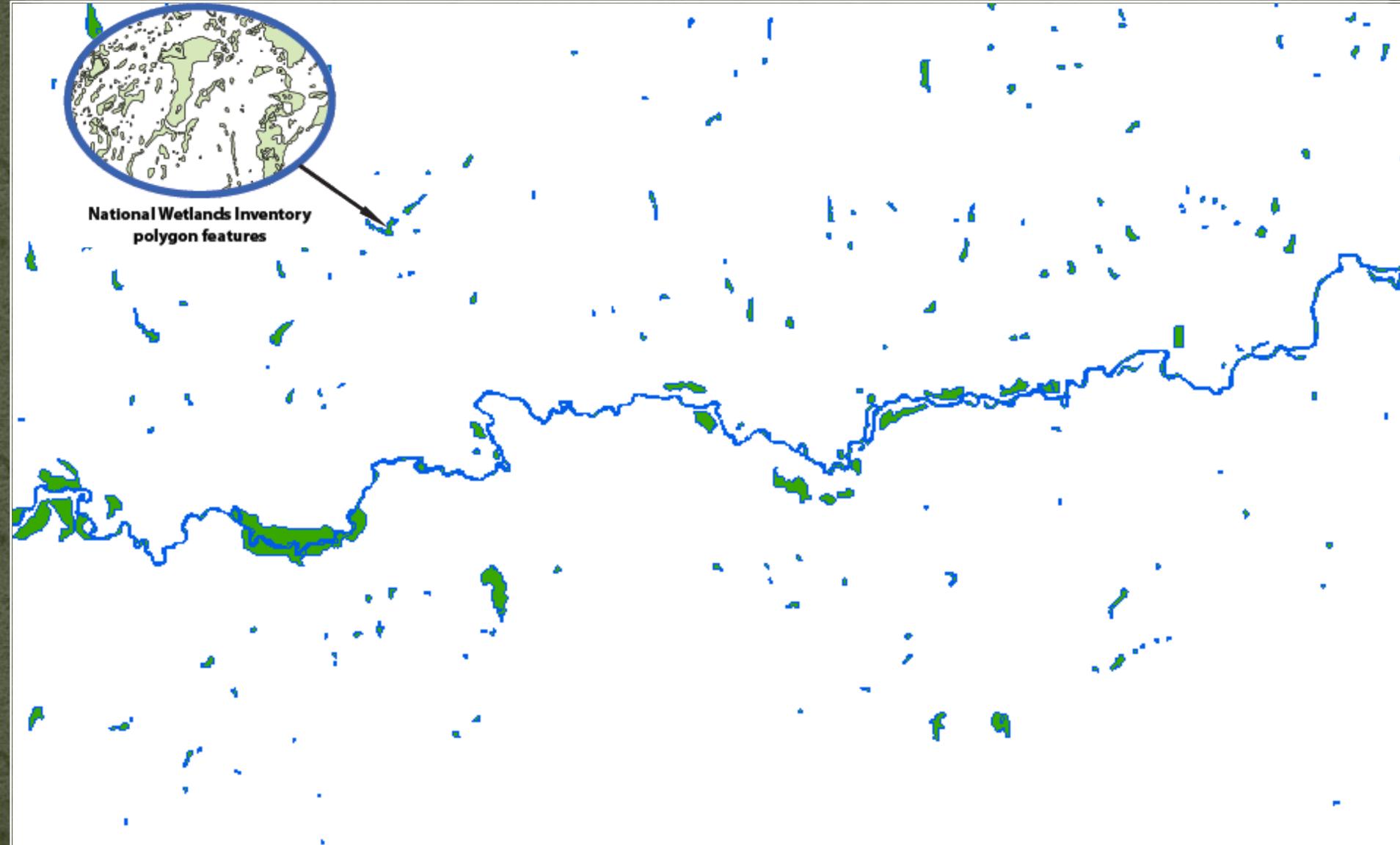
NWI - Version 2

-  Surface Water
-  Wetland

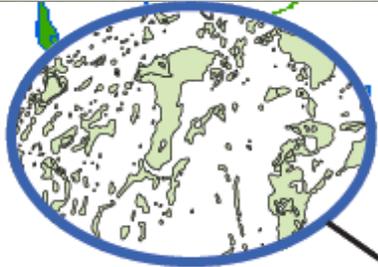
National Wetlands Inventory Version 2



**National Wetlands Inventory
polygon features**



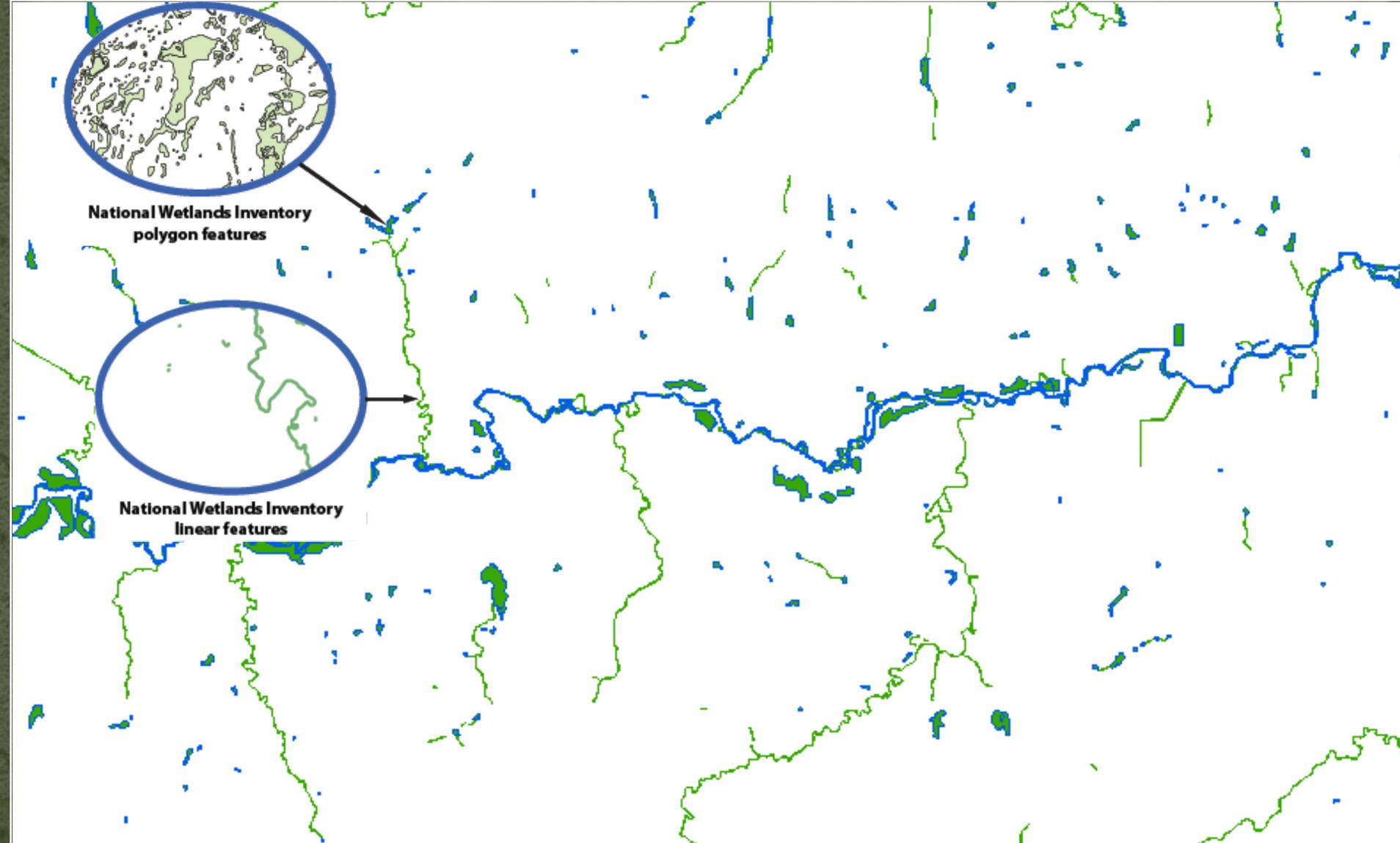
National Wetlands Inventory Version 2



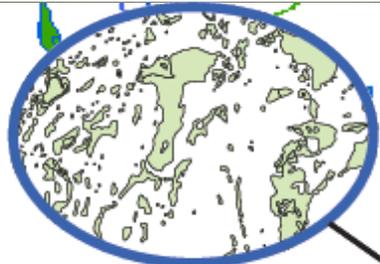
**National Wetlands Inventory
polygon features**



**National Wetlands Inventory
linear features**



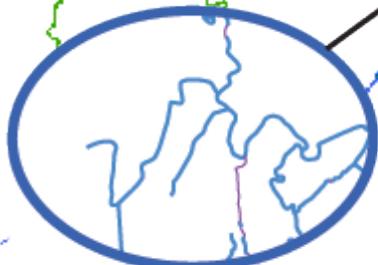
National Wetlands Inventory Version 2



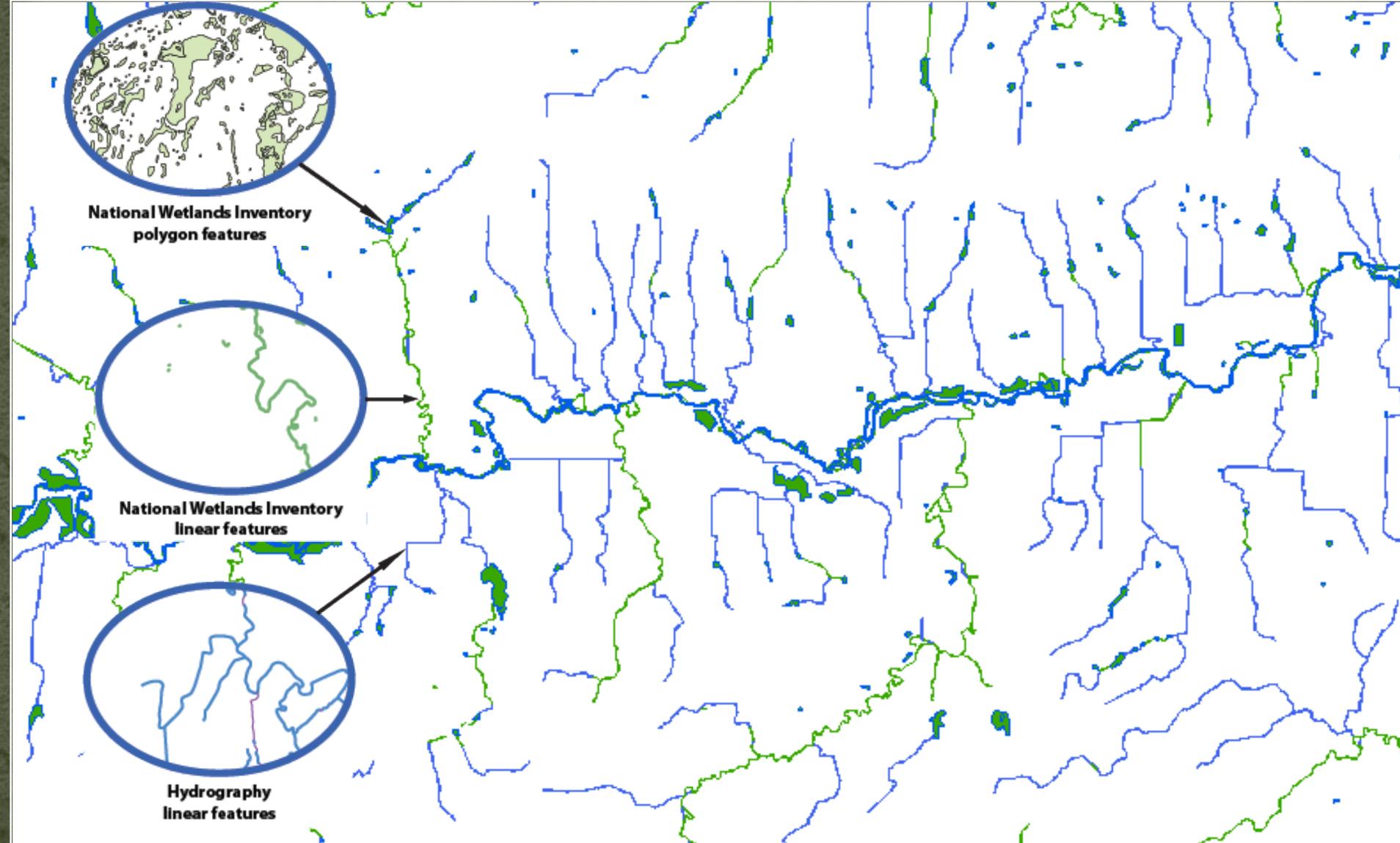
**National Wetlands Inventory
polygon features**

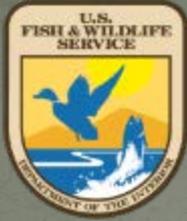


**National Wetlands Inventory
linear features**



**Hydrography
linear features**





NWI V2 – Wetlands Mapper

U.S. Fish and Wildlife Service
National Wetlands Inventory - V2
Surface Waters and Wetlands

- Same functionality as original Wetlands Mapper
- HTML 5 Platform
 - Allows for access by mobile devices
- ‘Jump To’ functionality to toggle between NWI V1 and V2 mappers/datasets
- Access to over 32 million surface water and wetland polygons
- Release planned for May

Available Layers

- Surface Waters and Wetlands
- Riparian
- Riparian Mapping Areas
- Data Source
- Source Type
- Image Scale
- Image Year
- Areas of Interest
- FWS Refuge
- Historic Wetland Data

Surface Waters and Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Surface Waters and Wetlands Mapping Status

- Digital
- No Data

Map Scale: 1:1000000000 Lat: 36.9674, Long: -87.9875
GCS: NAD83 U.S. National Standard
Team: NWI_V2, Team@fws.gov | Ext: HERE, DeLoe, H...

esri

<http://www.fws.gov/wetlands/Data/Wetlands-V2-Product-Summary.html>

National Wetlands Inventory Version 2

- <http://www.aswm.org/wetland-science/wetlands-one-stop-mapping/wetland-mapping-consortium>

Future
Webinar
Schedule

Past
Webinar
Materials

National Wetlands Inventory Version 2 – Surface Waters and Wetlands

Wednesday, March 30, 2016 - 4:30 p.m.-5:00 p.m. ET

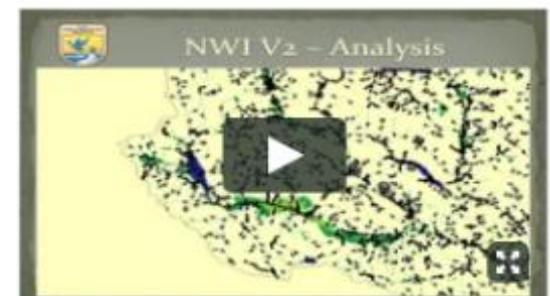
View Webinar

PRESENTER

Mitch Bergeson, U.S. Fish & Wildlife Service



Part 5: Presenter: Mitch Bergeson, U.S. Fish & Wildlife Service



Part 6: Presenter: Mitch Bergeson, U.S. Fish & Wildlife Service

National Wetlands Inventory

New and Coming Soon

- 2nd Edition of Classification of Wetlands and Deepwater Habitats of the United States – August 2013
- Data Collection Requirements and Procedures for Mapping Wetland, Deepwater and Related Habitats of the United States (version 2) - August 2015
 - NWI Map Code Diagram
 - NWI Water Regime Restriction Table
- U.S. FWS Wetlands email List-serve
- New Wetlands Data Verification Toolset – Arc 10.3.1
- Improved Wetland Code Interpreter
- FWS Wetlands Reports geospatially linked
 - All Wetland Reports have geographical footprint
 - Discoverable via the Wetlands Mapper
- Wetlands Status and Trends of the Conterminous U.S.
 - 2009 – 2019
 - Data collection starts 2017
 - Report published 2020