



# NAWM Recorded Webinars

## Wetland Mapping Consortium Webinars

2024

March 19, 2024

### Predicting and Mapping the effects of the Sackett Decision

Joe Shapiro, University of California, Berkeley; Tom Bernthal, Wisconsin's Green Fire; and Andy Robertson, GeoSpatial Services at Saint Mary'

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2023

August 30, 2023

### Canadian Wetland Inventory Activities in the Prairie and Borel Regions of Canada

Rebecca Edwards, Ducks Unlimited Canada; and Lyle Boychuk, Ducks Unlimited Canada

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April 27, 2023

### Examples of semi-automation for mapping Cowardin classes and wetland vegetation in Alaska

Timm Nawrocki, Alaska Center for Conservation Science, University of Alaska Anchorage

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February 8, 2023

### Mapping Wetland Probabilities: Tools, Models, and Applications

Meghan Halabisky, University of Washington Remote Sensing and Geospatial Analysis Lab; Anthony Stewart, PhD Student, University of Washington; Andy Robertson, GeoSpatial Services at Saint Mary's University of Minnesota

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2022

November 1, 2022

### NWI Updates: What's New at the National Wetlands Inventory Program

Jane Harner, U.S. Fish and Wildlife Service National Wetlands Inventory and Herb Bergquist, U.S. Fish and Wildlife Service National Wetlands Inventory

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September 22, 2022

### Building on an Initial Wetland Inventory and Classification to Map Ramsar Wetland Sites in Mexico

Robb Macleod, Ducks Unlimited and Norma Rangel, Ducks Unlimited de México

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June 15, 2022

### Creative Approaches to Funding Wetland Programs and Inventories

Andy Robertson, GeoSpatial Services at Saint Mary's University of Minnesota; Mike Jones, Stockbridge-Munsee Community; Tim Bixler, Missouri Department of Conservation

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2021	
<p>April 21, 2021</p> <p><a href="#">View recording</a></p>	<p><b>The Expanding Role of Automated Feature Extraction in Wetlands Mapping</b></p> <p>Sean MacFaden, University of Vermont Spatial Analysis Laboratory</p>
<p>January 19, 2021</p> <p><a href="#">View recording</a></p>	<p><b>Mapping Hydrologic Connectivity and Wetlands with LiDAR: Processes and Techniques from Minnesota and Wisconsin</b></p> <p>Andy Robertson, Saint Mary's University of Minnesota; Mark Biddle, Delaware Department of Natural Resources; and Sara Owen, University of Montana</p>
2020	
<p>December 8, 2020</p> <p><a href="#">View recording</a></p>	<p><b>Mapping a Path to Wetland Functions: Leveraging NHD and LLWW to Enhance the National Wetland Inventory</b></p> <p>Andy Robertson, Saint Mary's University of Minnesota; Mark Biddle, Delaware Department of Natural Resources; and Sara Owen, University of Montana</p>
<p>October 7, 2020</p> <p><a href="#">View recording</a></p>	<p><b>Automating the Detection of Disturbances to Aquatic Resources</b></p> <p>Melanie Vanderhoof, U.S. Geological Survey, Geoscience and Environmental Change Science Center</p>
<p>February 12, 2020</p> <p><a href="#">View recording</a></p>	<p><b>NWI Unfinished Business: The Current State of Wetland Mapping in Alaska</b></p> <p>Sydney Thielke, Regional Wetlands Coordinator, U.S. Fish and Wildlife Service, Alaska Region and Andy Robertson, Director, GeoSpatial Services, Saint Mary's University of Minnesota</p>
2019	
<p>December 3, 2019</p> <p><a href="#">View recording</a></p>	<p><b>NWI Data in Support of Conservation Efforts and Habitat Modeling</b></p> <p>Rusty Griffin, U.S. Fish and Wildlife Service</p>
<p>November 13, 2019</p> <p><a href="#">View recording</a></p>	<p><b>Wetland Inventory of Canada Using Optical and RADAR EO Data and Google Earth Cloud Computing</b></p> <p>Bahram Salehi, PhD, PEng. Assistant Professor of Remote Sensing Engineering, State U of New York, College of Environmental Science and Forestry</p>
<p>October 23, 2019</p> <p><a href="#">View recording</a></p>	<p><b>National Land Cover Database 2016, General Overview and Applications to Wetland Assessment</b></p> <p>Dr. Collin Homer, U.S. Geological Survey and Dr. George Xian, U.S. Geological Survey</p>
<p>October 2, 2019</p> <p><a href="#">View recording</a></p>	<p><b>National Riparian Areas Base Map: Development &amp; Applications</b></p> <p>Sinan Abood, U.S. Forest Service; Daniel Rosenbaum, U.S. Environmental Protection Agency; and Rebecca Lilja, U.S. Forest Service</p>
<p>September 4, 2019</p> <p><a href="#">View recording</a></p>	<p><b>Lessons Learned from the Minnesota NWI Update</b></p> <p>Steve Kloiber, Minnesota Department of Natural Resources; Robb Macleod, Ducks Unlimited; and Keven Stark, Saint Mary's University of Minnesota</p>
<p>August 21, 2019</p> <p><a href="#">View recording</a></p>	<p><b>Mapping Wetland Inundation Dynamics and Wetland Change using Google Earth Engine</b></p> <p>Qiusheng Wu, PhD, University of Tennessee and Melanie Vanderhoof, PhD, U.S. Geological Survey</p>

<p>June 20, 2019</p> <p><a href="#">View recording</a></p>	<p><b>Mapping Thirty Years of Wetland Surface Water Dynamics Using Landsat Satellite Imagery: Implications for Climate Change and Species Management</b></p> <p>Meghan Halabisky, Ph.D., Lead Scientist with Conservation Science Partners and Amanda Kissel, Ph.D., Lead Scientist with Conservation Science Partners</p>
<b>2017</b>	
<p>December 6, 2017</p> <p><a href="#">View recording</a></p>	<p><b>Mapping Innovations at the Michigan DEQ: New approaches, tools and technologies</b></p> <p>Chad Fizzell, Michigan Department of Environmental Quality; and Jeremy Jones, Michigan Department of Environmental Quality</p>
<p>October 18, 2017</p> <p><a href="#">View recording</a></p>	<p><b>Developing a Spatially Enabled Wetland Program Website to Communicate the Importance of Tribal Land Management</b></p> <p>Andy Robertson, Executive Director, GeoSpatial Services, Saint Mary's University of Minnesota</p>
<p>July 19, 2017</p> <p><a href="#">View recording</a></p>	<p><b>Mapping Wetland Inundation Dynamics Using Multi-Source Satellite Data</b></p> <p>Ben DeVries, Post- Doctoral Research Associate, Department of Geographical Sciences, University of Maryland</p>
<p>April 12, 2107</p> <p><a href="#">View recording</a></p>	<p><b>Moving Wetland Restoration into Recommendations into Action: New Mapping/Monitoring Program Tends</b></p> <p><b>National Wetlands Inventory Wetland Mapping Targeting Tool and Data Use Trends</b></p> <p>Megan Lang, U.S. Fish and Wildlife Service</p> <p><b>A Collaborative Approach to Establishing Wetland Management Priorities in Northcentral New Mexico</b></p> <p>Andy Robertson, Saint Mary's University</p> <p><b>Wetland Functional Assessment in West Virginia</b></p> <p>Elizabeth Byers, West Virginia Department of Environmental Protection</p>
<p>February 15, 2017</p> <p><a href="#">View recording</a></p>	<p><b>Recent Updates to the EnviroAtlas Tool: Mapping Ecosystem Goods and Services</b></p> <p>Anne Neale, EnviroAtlas Project Lead, U.S. Environmental Protection Agency</p>
<b>2016</b>	
<p>December 21, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Maps of Potential Wetland Extent for Selected Streams in Indiana</b></p> <p>Kathleen Fowler, U.S. Geological Survey</p>
<p>October 5, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Mapping Coastal Storm Surge Flooding and Marsh Structure</b></p> <p>Elijah Ramsey III, U.S. Geological Survey and Amina Rangoonwala, U.S. Geological Survey</p>
<p>July 20, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Uses of the Soil and Water Assessment Tool (SWAT)</b></p> <p>Grey Evenson, PhD, Post-Doctoral Fellow, Virginia Tech and Visiting Scientist, U.S. EPA; Sangchul Lee, PhD Candidate, University of Maryland; Greg McCarty, PhD, Research Soil Scientist, USD</p>
<p>May 24, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Defining Wetland Gems in North Central New Mexico</b></p> <p>Andy Robertson, Saint Mary's University of Minnesota and Kevin Benck - Saint Mary's University of Minnesota</p>

<p>March 30, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Working towards an Automated Wetlands Mapping Process: Successes, Failures, and Potential for the Future</b></p> <p>Robb McLeod, Ducks Unlimited</p>
<p>March 30, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Multi-Criteria Restoration Prioritization: Applying Landscape Level Wetland Functional Assessments for Watershed Planning &amp; Decision Support</b></p> <p>Andy Robertson, Saint Mary's University of Minnesota</p>
<p>March 30, 2016</p> <p><a href="#">View recording</a></p>	<p><b>National Wetlands Inventory Version 2 – Surface Waters and Wetlands</b></p> <p>Mitch Bergeson, U.S. Fish &amp; Wildlife Service</p>
<p>February 17, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Updated Data Collection Procedures and Requirements for Meeting FGDC Wetland Mapping Standards</b></p> <p>Rusty Griffin, U.S. Fish and Wildlife Service's, National Standards and Support Team</p>
<p>January 28, 2016</p> <p><a href="#">View recording</a></p>	<p><b>Changes in the FGDC Wetland Classification Standard – Cowardin 2.0</b></p> <p>Rusty Griffin, U.S. Fish and Wildlife Service's, National Standards and Support Team</p>
<b>2015</b>	
<p>December 9, 2015</p> <p><a href="#">View recording</a></p>	<p><b>NWI Standards &amp; Dataset: A Cornerstone for Decision-Support</b></p> <p>Mitch Bergeson, U.S. Fish &amp; Wildlife Service; Andy Robertson, Saint Mary's University; and Megan Lang, University of Maryland</p>
<p>October 21, 2015</p> <p><a href="#">View recording</a></p>	<p><b>From Fen to Floodplain: Steps in a Successful Landscape Level Wetland Inventory in Northeastern New Mexico</b></p> <p>Andy Robertson, Saint Mary's University and Maryann McGraw, New Mexico Environment Department</p>
<p>September 16, 2015</p> <p><a href="#">View recording</a></p>	<p><b>Part 2 – The Florida Wetlands Integrity Dataset: Analysis of nonrenewable energy data and construction of graph-theoretic networks to quantify landscape integrity</b></p> <p>John Humphreys and Amir Mahjoor, Florida Department of Environmental Protection</p>
<p>July 15, 2015</p> <p><a href="#">View recording</a></p>	<p><b>Part 1 - The Florida Wetlands Integrity Dataset: Using soils data, topographic indices, and Bayesian probability to identify wetlands</b></p> <p>John Humphreys and Amir Manjoo, Florida Department of Environmental Protection</p>
<p>May 20, 2015</p> <p><a href="#">View recording</a></p>	<p><b>Minnesota's "Restoration Wetland Prioritization Tool"</b></p> <p>Mark Gernes, Minnesota Pollution Control Agency</p>
<p>March 25, 2015</p> <p><a href="#">View recording</a></p>	<p><b>WMC Workshop: "Accessing, Analyzing and Communicating Digital Wetland Data to Stakeholders for Decision-making"</b></p> <p><b>Wetlands Spatial Data 101: How to Access Data on NWI Mapper and Other Resources</b></p> <p>Mitch Bergeson, USFWS, National Standards Support Team</p>
<p>February 18, 2015</p> <p><a href="#">View recording</a></p>	<p><b>Marsh Analysis and Planning Tool Incorporating Tides and Elevations (MAPTITE): A Geospatial Tool for Estuary Restoration</b></p> <p>Lijuan Huang and Chris Paternostro, NOAA</p>

January 21, 2015 <a href="#">View recording</a>	<b>Mapping With Ecological Site Descriptors</b> Richard A. Weber, P.E., Wetland Hydraulic Engineer, NRCS
<b>2014</b>	
December 17, 2014 <a href="#">View recording</a>	<b>State Offsite Methods for wetland determinations in the Prairie Pothole Region of IA, MN, ND and SD</b> Jason Outlaw, USDA Natural Resources Conservation Service
November 19, 2014 <a href="#">View recording</a>	<b>Variable Width Riparian Areas Mapping: A Robust GIS Approach</b> Sinan A. Abood, USDA Forest Service
October 15, 2014 <a href="#">View recording</a>	<b>Mapping Standards &amp; Requirements</b> Rusty Griffin, U.S. Fish & Wildlife Service
September 17, 2014 <a href="#">View recording</a>	<b>Part 1: A Help Guide for Using gSSURGO to Find Potential Wetland Soil Landscapes</b> John Galbraith, Virginia Tech <b>Part 2: Applications of SSURGO soil attributes to potentially restorable wetlands</b> Kevin Stark, Saint Mary's University
August 20, 2014 <a href="#">View recording</a>	<b>Surface Waters and Wetlands Inventory: A More Comprehensive Dataset of the Nation's Water Resources</b> Mitch Bergeson, GIS Specialist, National Standards and Support Team, U.S. Fish and Wildlife Service
June 18, 2014 <a href="#">View recording</a>	<b>Wetland Landscapes – Techniques for Spatial Definition and Ecological Assessment Using SSURGO, HGM, and GIS tools</b> Richard A. Weber, P.E., Wetland Hydraulic Engineer, Wetland Team, CNTSC
May 21, 2014 <a href="#">View recording</a>	<b>Using Land Cover Change Data to Better Understand Wetland Trends</b> Nate Herold, Physical Scientist, NOAA Coastal Services Center
April 16, 2014 <a href="#">View recording</a>	<b>The Minnesota NWI Update: A Case Study of Quality Assurance</b> Steve Kloiber, P.E., Ph.D., Wetland Monitoring Coordinator, Minnesota Dept. of Natural Resources <b>The Minnesota NWI Update: Integrating Semi-automated Mapping Techniques into Production Level Wetland Mapping</b> Robb Macleod, National GIS Coordinator, Ducks Unlimited
February 19, 2014 <a href="#">View recording</a>	<b>Mapping Forested Wetland Inundation with the Landsat historic Record</b> Megan Lang, Senior Research Scientist with Science Systems and Applications, Inc. and Coordinator of the U.S. Department of Agriculture Mid-Atlantic Wetland Conservation Effects Assessment Project
January 22, 2014 <a href="#">View recording</a>	<b>The Evolution of NWI and How It Has Changed: A Comparison of Old and New Methodologies, Strengths and Weaknesses</b> Andy Robertson, Saint Mary's University of Minnesota



## 2013

<p>December 18, 2013</p> <p><a href="#">View recording</a></p>	<p><b>Creating a Value-Added Wetlands Layer: Enhancing the Utility of Wetland Mapping in Montana</b></p> <p>Karen Newlon, Montana Natural Heritage Program</p>
<p>November 20, 2013</p> <p><a href="#">View recording</a></p>	<p><b>NWI+ Data What It Is and How It's Being Used</b></p> <p>Ralph Tiner, Regional NWI Coordinator, Northeast Region, U.S. Fish and Wildlife Service</p>
<p>September 17, 2013</p> <p><a href="#">View recording</a></p>	<p><b>Mapping "Natural" Floodplains</b></p> <p>Kevin Coulton, cbec, eco engineering, inc.</p> <p><b>Soil Survey Information for Floodplain Mapping</b></p> <p>Dave Hoovers and Sharon Waltman, Natural Resources Conservations Service</p>
<p>June 26, 2013</p> <p><a href="#">View recording</a></p>	<p><b>Iowa Wetland Assessment and Restorable Wetland Inventory</b></p> <p>Chris Ensminger, Iowa Department of Natural Resources</p>
<p>May 15, 2013</p> <p><a href="#">View recording</a></p>	<p><b>How has Wetland Training been Presented, What is Available, and How Might Innovative Technologies be used in the Future to Present Information to the Public and to Professionals</b></p> <p>Dr. John M. Galbraith, Virginia Tech</p> <p><b>Documenting the Uses and Applications of the National Wetlands Inventory –</b></p> <p>Jeanne Christie, Association of State Wetland Managers</p>
<p>February 26, 2013</p> <p><a href="#">View recording</a></p>	<p><b>National SURRGO Wetland Soils Project</b></p> <p>John Galbraith, Virginia Tech</p>
<h2 style="text-align: center;">2012</h2>	
<p>November 28, 2012</p> <p><a href="#">View recording</a></p>	<p><b>Wetlands Assessment and Level I Mapping Techniques</b></p> <p>Andy Robertson, St. Mary's University of Minnesota</p>
<p>October 17, 2012</p> <p><a href="#">View recording</a></p>	<p><b>Wetlands Data in the National Atlas</b></p> <p>Annie Neale, U.S. Environmental Protection Agency</p>
<p>August 15, 2012</p> <p><a href="#">View recording</a></p>	<p><b>Scalable Wetlands Mapping</b></p> <p>Tom Dahl, U.S. Fish and Wildlife Service; Bill Wilen, U.S. Fish and Wildlife Service; and Jill Michaelson, U.S. Fish and Wildlife Service</p>
<p>July 18, 2012</p> <p><a href="#">View recording</a></p>	<p><b>Sea Level Affecting Marshes Model (SLAMM) and SLAMM View</b></p> <p><b>Origins of SLAMM</b></p> <p>Bill Wilen, National Wildlife Service</p> <p><b>Sea Level Affecting Marshes Model (SLAMM)</b></p> <p>Jonathan Clough, Lead Modeler, Warren Pinnacle Consulting</p> <p><b>SLAMM-View</b></p> <p>Jeff Ehman, Senior Analyst, Image Matters</p>

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June 20, 2012

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**NWI Wetland Mapping Projects**

**Development of CARI (California Aquatic Resources Inventory)**

Kristen Cayce, San Francisco Estuary Institute

**Saint Croix Headwaters Wetland Mapping Project**

Chad Richtman, Saint Mary's University of Minnesota

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