

WETLAND MAPPING CONSORTIUM

Uses of the Soil and Water Assessment Tool (SWAT)

Dr. Grey Evenson, Virginia Tech & U.S. EPA

Sangchul Lee, PhD Candidate, Univ. of Maryland

Dr. Gregory McCarty, USDA

**U.S. Fish &
Wildlife Service**

Hosted by the Association of State Wetland Managers
Supported by the U.S. Fish & Wildlife Service





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AGENDA



- **Welcome and Introductions** (5 minutes)
- **WMC Webinar Recordings/Schedule** (5 minutes)
- **Uses of the Soil & Water Assessment Tool** (60 minutes)
 - **Watershed-scale Hydrologic Simulation of Geographically Isolated Wetlands: Methods and Preliminary Results, Dr. Grey Evenson**
 - **Integration of Remote Sensing Data into a Watershed-Scale Wetland Modeling for an Improved Model Prediction, Sangchul Lee, Univ. of Maryland**
 - **Role of Prior Converted Croplands on Nitrate Processing in Agricultural Landscapes, Dr. Gregory McCarty**
- **Question & Answer** (15 minutes)
- **Wrap up** (5 minutes)

ASWM WEBINAR SERIES MODERATOR

Marla Stelk,
Policy Analyst

Association of State
Wetland Managers



PRESENTERS



Dr. Grey Evenson
Post-Doctoral Fellow,
Virginia Tech
&
Visiting Scientist,
U.S. EPA



Sangchul Lee
PhD Candidate
University of
Maryland



Dr. Gregory McCarty
Research Soil Scientist
USDA

WETLANDS ONE-STOP MAPPING

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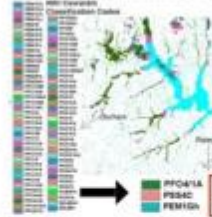
Providing Easy Online Access to Geospatial Data on Wetlands and Soils and Related Information

A coalition of State Wetland Managers in collaboration with Virginia Tech's Conservation Management Institute (CMI) and the U.S. Fish and Wildlife Service's Northeast Region have created Wetlands One-Stop Mapping to provide easy online access to geospatial data on wetlands and soils produced by federal and state agencies. Because different agencies post data on their own sites, there is not a single place to go for this information. Wetlands One-Stop Mapping provides links to these and other websites. It provides online access to classification tools for adding hydrogeomorphic-type to wetland inventory data and the results of National Wetlands Inventory+ projects (maps and reports). The geospatial information is linked to aerial imagery (and topographic maps) through ESRI's ArcGIS (including Explorer) for easy viewing of wetlands, their characteristics, and functions for areas where NWI+ data are available.

The website also provides links to other federal and state websites that contain information on wetlands and wetland data. Among the national datasets accessible via Wetlands One-Stop Mapping are the NWI's wetlands, USDA's web soil survey, USGS's national hydrography data and hydrologic units (HUCs). Links are also on NatureServe Explorer and the U.S. National Vegetation Classification Hierarchy Explorer along with guidance on extracting descriptions of wetland plant communities from those sites for specific areas of interest.

The site also provides information about the activities of the Wetland Mapping Consortium including future and past recorded webinars, Coastal Mapping Resources, a summary of the status of state wetland mapping, federal and state wetland delineation manuals, numerous wetland publications, and federal agency wetland websites.

Example of National Wetland Inventory (NWI) Map



Wetlands One-Stop Mapping Links by Subject

Introduction to Wetlands One-Stop Mapping

[National Wetlands Inventory \(NWI\)](#)

[Wetland Primer](#)

[Wetland Mapping Training](#)

NWI+ Data & Information

[FWS Wetlands Mapper](#)

[LLWW Classification](#)

[NWI+ Data Layers](#)

[NWI+ Mapper](#)

[NWI+ Reports](#)

Federal Standards & Funding for Wetland Mapping

[National Data Sets & Information](#)

[State Wetland Mapping Summaries](#)

[State Wetland Program Websites & Data](#)

[Wetland Plant Community Information](#)

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WETLAND MAPPING TRAINING WEBPAGE

Association of State Wetland Managers - Protecting the Nation's Wetlands.



ASWM Upcoming Webinars

- **Wetlands & Nutrient Uptake in Agricultural Settings** - 1/27/16
- **Changes in the FGDC Wetlands Classification Standard - Cowardin 2.0** - 1/28/16
- **Evaluating the Ecological Performance of Compensatory Mitigation** - 2/2/16

For a complete list of ASWM webinars, [click here](#).

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Wetland Mapping Training

U.S. Fish & Wildlife Service

The Fish and Wildlife Service's National Wetlands Inventory (NWI) is pleased to announce the availability of initial modules of an online Wetland Mapping Training course. NWI is providing the training to encourage and enable mapping partnerships with other organizations in order to increase the amount of current, modernized wetlands geospatial data available to all users. The training is geared towards image interpreters already skilled in GIS, who may need special training for mapping wetlands, to learn how to interpret and classify wetlands, apply the new standards and requirements, or learn tips and tricks (coming soon) to make the mapping more efficient. The training is designed to implement the new Wetlands Mapping Standard and ensure the quality of the data – and training is an effective way to make sure the data are collected accurately from the beginning. Currently only three modules are available, two technical modules are coming soon, and three additional modules on related topics are planned. NWI will continue to provide in-person training to partnering organizations as needed, as well as data verification tools, guidance, and quality control of the data before it becomes part of the NWI layer of the National Spatial Data Infrastructure. To review or take the training, [click here](#).


The training is evolving as we receive feedback. If you want to be part of the process, send comments to FW9_Wetlands@fws.gov. This training was developed in cooperation with the Association of State Wetland Managers, supported by EPA and the FGDC.

Training Webinars

Mapping Standards & Requirements – Rusty Griffin, U.S. Fish & Wildlife Service (10/15/14)



Part 1: Introduction - Maria Stelk, Policy Analyst, ASWM
Presenter: Rusty Griffin, U.S. Fish & Wildlife Service



Part 2: Presenter: Rusty Griffin, U.S. Fish & Wildlife Service



Part 3: Questions

WEBINAR SCHEDULE/RECORDINGS

Association of State Wetland Managers - Protecting the Nation's Wetlands.



ASWM Upcoming Webinars

- **The Florida Wetlands Integrity Dataset: Part 2** - September 16, 2015
- **Solar Project Siting and Wetland Permitting** - September 29, 2015
- **Wetland Restoration in Urban and Highly Disturbed Landscapes** - October 13, 2015

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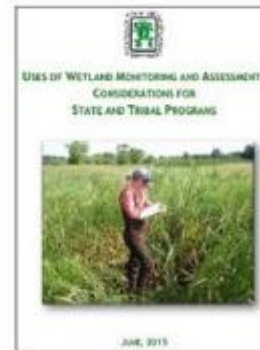
ASWM Publications

Uses of Monitoring and Assessment in Wetland Programs

The Association of State Wetland Managers has released a new report - *Uses of Monitoring and Assessment: Considerations for State and Tribal Programs* - which was prepared with assistance from an EPA State

Wetland Program Development Grant - explores the various ways that states and tribes could make better use of existing monitoring and assessment methods to obtain science-based answers to wetland management problems. While it provides an overview of many common approaches to wetland monitoring, the focus is primarily on **why** these methods are selected for a given purpose. This report encourages the thoughtful identification of the most appropriate and efficient methods in light of available financial and staff resources. It may be particularly useful to states or tribes that are developing or updating wetland monitoring and assessment strategies.

[Click here to read or download the report.](#)



Picture of the Week *Southward Bound*



Jeanne Christie Photo

For information about this picture and to see past pictures of the week [click here.](#)

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- [Ecosystem Service](#)

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ASWM Webinars/Conference Schedule

ASWM WEBINARS

The Association of State Wetland Managers holds seminars on various topics, most of which relate to a specific project and workshop. In addition, ASWM holds seminars as part of its members' webinar series on topics of interest to members. Please click on the webinar series home below for more details about individual webinars. In all cases, if you have any questions about registering for a webinar, please email Luke at luke@aswm.org.

If you haven't used Go To Webinar before or you just need a refresher, please visit our guide prior to the webinar here.

The Association of State Wetland Managers (ASWM) and the Society of Wetland Scientists (SWS) share the common goal of encouraging sound science in wetland research, management, restoration, policy, and conservation. To meet this goal, the two organizations developed a formal partnership in 2018. ASWM is pleased to provide a link to SWS's new Member Webinar Series and encourage you to investigate their webinar series as well as our own.

For a full list of available webinar recordings visit this link here.

Members' Wetland Webinar Series

For Members of ASWM Only

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Past Webinars

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State Wetland Program Status and Trends Report
Update on the Progress of Our Wetland Health

Hot Topics Webinar Series

Future Webinars

Past Webinars

Improving Wetland Restoration Success Project

Future Webinars

Past Webinars

Natural Floodplain Functions Alliance Webinar

Future Webinars

Past Webinars

Wetland Mapping Consortium Webinar (WMC)

Future Webinars

Past Webinars

MAY 24, 2016 WEBINAR RECORDING AVAILABLE

Defining Wetland Gems in North Central New Mexico



Andy Robertson, Director
Saint Mary's University



Kevin Benck, GIS Analyst
Saint Mary's University

Future Wetland Mapping Consortium Webinars

- **Wednesday, September 14th**
3:00pm eastern
TBD
- **Wednesday, November 16th**
3:00pm eastern
TBD

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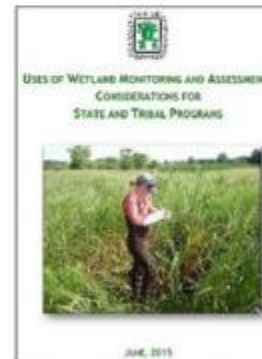
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New ASWM Publications

Integration of Monitoring and Assessment in Wetland Programs

The Association of State Wetland Managers (ASWM) is pleased to release a new report - **Uses of Monitoring and Assessment: Considerations for State and Tribal Programs**. This report - which was prepared with financial assistance from an EPA State Wetland Program Development Grant - explores the various ways that states and tribes could make better use of existing monitoring and assessment methods to obtain science-based answers to wetland management problems. While it provides an overview of many common approaches to wetland monitoring, the focus is primarily on **why** these methods are selected for a given purpose. This report encourages the thoughtful identification of the most appropriate and efficient methods in light of available financial and staff resources. It may be particularly useful to states or tribes that are developing or updating wetland monitoring and assessment strategies.

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Uses of the Soil and Water Assessment Tool (SWAT)

It Will Take Us A Few Moments To Make The Switch....



Questions?

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*Thank you for your
participation!*



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