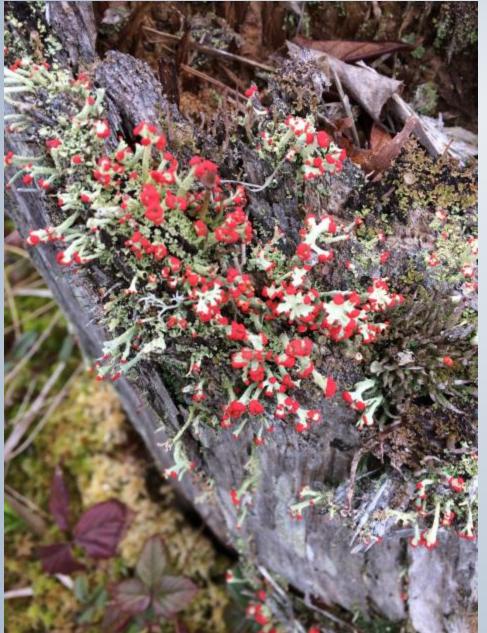
WETLAND MAPPING CONSORTIUM

Mapping Wetland Inundation Dynamics Using Multi-Source Satellite Data Ben DeVries University of Maryland



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





AGENDA

- Welcome, General Info & Introductions (10 minutes)
- Mapping Wetland Inundation Dynamics
 Using Multi-Source
 Satellite Data (30 minutes)
- Question & Answer (20 minutes)





If you have any technical difficulties during the webinar you can send us a question in the webinar question box or call Laura at (207) 892-3399 during the webinar.



WEBINAR TECH TIPS

If you are using the telephone to listen to the webinar, please mute both your computer's microphone <u>and</u> speakers



Please submit your questions for the presenters via the question box.

<u>Tip</u>: Close out other non-essential programs on your desktop

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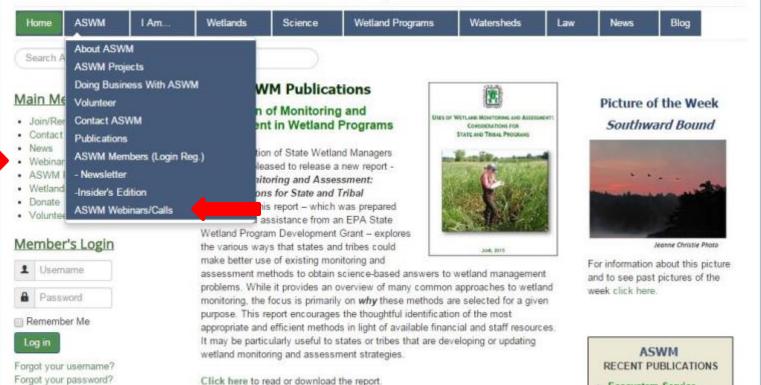
Association of State Wetland Managers - Protecting the Nation's Wetlands.



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

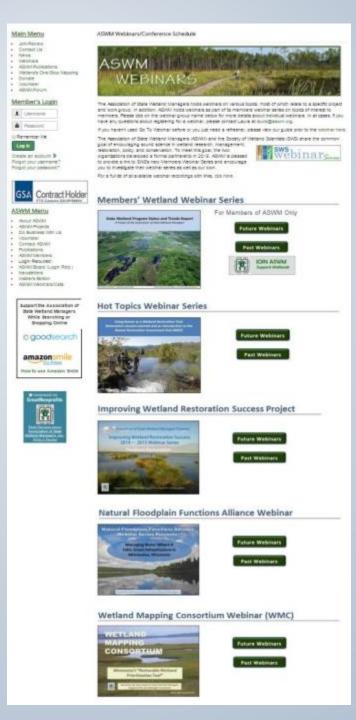
For a complete list of ASWM webinars, click here.





· Ecosystem Service

WEBINAR SCHEDULE & RECORDINGS





WETLANDS ONE-STOP MAPPING

Main Menu

- Join/Renew
- Contact Us
- News
- Webinars
 ASWM Publications
- Asvini Publications
 Wetlands One-Stop Mapping
- Donate
- · Volunteer
- volunteer

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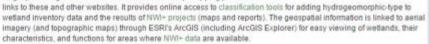
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WETLANDS ONE-STOP MAPPING

The Association 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 created Wetlands One-Stop Mapping to provide easy online access to geospatial data on wetlands and soils produced by federal and state agencies. The U.S. Fish and Wildlife Service (FWS), through its National Wetland Inventory produced wetland geospatial data for most of the country.

while different agencies post data on their own sites, there is not a single place to go for these data. Wetlands One-Stop Mapping provides



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

Wetlands One-Stop Mapping Links by Subject

NWI

- National Wetlands Inventory (NWI)
- FWS Wetlands Mapper
- Wetland Primer Federal Standards & Funding for Wetland Mapping National Data Sets & Information

NWI+

NM+ Data & Information LLWW Classification NM+ Data Layers NM+ Mapper NM+ Reports

States

State Wetland Mapping Summaries State Wetland Program Websites & Data

Training

Wetland Mapping Training

Reports and Publications

Reports & Publications Other Mapping & Wetland Resources

Other Resources

Wetland Plant Community Information Wetland Mapping Consortium



NWI+ was a regional initiative by the Northeast Region of the U.S. NWI+ Fish and Wildlife Service's NMI Program. It was supported by the NWI through regional mapping projects funded by the U.S. Fish and Wildlife Service and federal and state cooperators from the mid-1990s to 2015. It began as a regional demonstration initiative in how NMI data could be enhanced with hydrogeomorphic attributes for landscape position, landform, water flow path, and waterbody type (LLWW descriptors) to increase the functionality of NMI data for better characterizing wetlands. for predicting wetland functions at the landscape or watershed level, and for assessing the impact of wetland changes on wetland functions. The expanded database and its outputs were called NWI+ data as the results go beyond the standard NMI mapping. Production of NMI+ data was a special project of the NWI with work. mostly in the Northeast Region but also undertaken by some states (e.g., Colorado, Georgia, Montana, and New Mexico) in other Regions when they were updating NWI data. While the demonstration was successful and NWI+ or similar data continue to be generated by several states. the national NWI Program (the U.S. Fish and Wildlife Service) is no longer able to support NWI+ initiatives. Moreover budget cuts for the program have made the NWI+ NMI more dependent than ever on having cooperators update even the basic NWI database.

Wetlands One-Stop Mapping Links by Subject

NWI

National Wetlands Inventory (NWI)

FWS Wetlands Mapper

Wetland Primer

Federal Standards & Funding for Wetland Mapping

National Data Sets & Information

NWI+

- NWI+ Data & Information
- LLWW Classification
- NWI+ Data Layers
- NWI+ Mapper
- NWI+ Reports

States

State Wetland Mapping Summaries State Wetland Program Websites & Data

Training

Wetland Mapping Training



Reports and Publications

Reports & Publications

Other Mapping & Wetland Resources

Other Resources

Wetland Plant Community Information

Wetland Mapping Consortium

Wetland Classification Image Gallery











WETLAND MAPPING TRAINING WEBPAGE

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



Main Menu

Join/Renew

- · Contact Us
- · News
- · Webinars
- ASWM Publications
- · Wetlands One-Stop Mapping
- Donate
- Volunteer

Member's Login



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Science Menu

- · Wetland Science
- · Wetlands One-Stop
- · Monitoring & Assessment
- · · National Wetland Condition

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 enclourage 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 (corning 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



February 15 Webinar Recording Available

Recent Updates to the EnviroAtlas Tool: Mapping Ecosystem Goods and Services



Anne Neal U.S. Environmental Protection Agency



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ASWM webinar on today's date from 3-5 pm Eastern.	You will be prompted to download your certificate. If you cannot download, go back into ClassMarker using your password to print. Do not pay twice to download.
 You will be responsible for sending the ASWM certificate to your accrediting organization. 	For assistance , please contact Laura Burchill laura@aswm.org or (207) 892-3399.

*A link to a page with instructions will be sent to everyone who registered in an e-mail one hour after the webinar ends. Non-members will be required to pay \$25 per certificate.



Main Menu

- Join/Renew
- Contact Us
- News
- Webinars
- ASWM Publications
- Wetlands One-Stop Mapping
- Donate
- Volunteer

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Science Menu

- Wetland Science
- Wetlands One-Stop
- Monitoring & Assessment
- National Wetland Condition Assessment (NWCA)
- Indicators
- Wetland Restoration
- Planning & Design
 Ecosystem Service Valuation

How to Receive a Certificate of Participation for the July 19, 2017 Wetland Mapping Consortium Webinar

Using the ClassMarker online system, ASWM will ask you to certify that you participated in the entire Wetland Mapping Consortium live webinar on Mapping Wetland Inundation Dynamics Using Multi-Source Satellite Data on Wednesday, July 19, 2017 from 3-5 pm Eastern.

Once you are in ClassMarker, you will be prompted to provide your name and email address, which will be used to process your certificate.

Answering "yes" to the question about your participation will automatically qualify you to receive a certificate for your attendance. Answering "no" will result in no certificate being issued.

You will be prompted to download your Certificate of Participation from ClassMarker after you complete the quiz.

Once you download your certificate, you can then submit the certificate to the accrediting organization of your choice to potentially receive continuing education units/credits.

Please select the appropriate certificate process:

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All ASWM members receive free Certificates of Participation for webinars. Non-Members will be charged a processing fee of \$25.00 US. To receive your free Certificate of Participation, click here.

ASWM Member Free Certificate

If you are not a current ASWM Member, you must select the non-member certificate link to receive your certificate.

· I am not an ASWM Member:

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If you are not an ASWM member, please either:

A) Select the <u>Non-member Certificate Option</u> to get your certificate. All non-ASWM Members are required to pay a \$25.00 certificate processing fee. You will be prompted to pay the processing fee using PayPal, with the option to sign in as either a PayPal member or as a guest (not requiring a PayPal account and using your credit card).

B) We encourage you to go to the ASWM org website and become a

member so that you can receive certificates at no charge for the next 12

Non-Member Certificate

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If you have any questions, please contact Laura Burchill at laura@aswm.org or contact the ASWM office at (207) 892-3399.

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- * New benefits as of Dec. 1, 2016 † Non-members will be charged \$25.00 for each Certificate of Attendance beginning January 1, 2017.

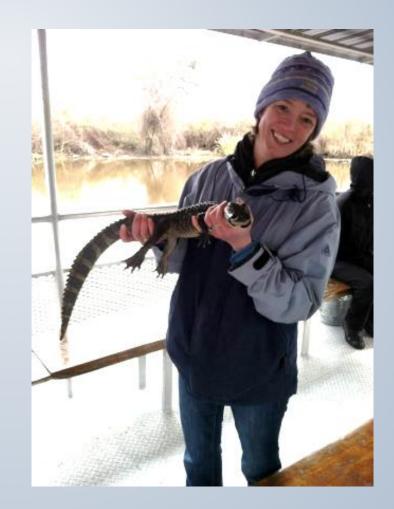


https://www.aswm.org/join-aswm

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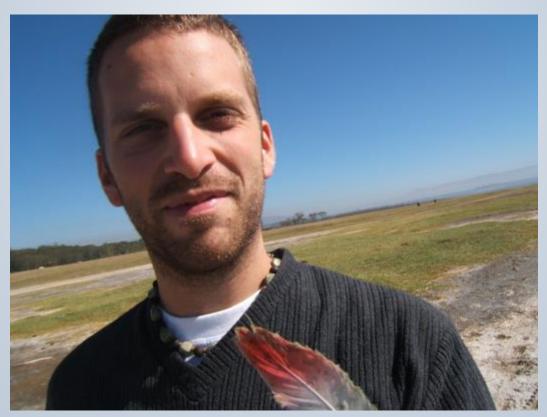
Marla Stelk Policy Analyst

Association of State Wetland Managers





PRESENTER



Ben DeVries Post-Doctoral Research Associate Department of Geographical Sciences University of Maryland



Mapping Wetland Inundation Dynamics Using Multi-Source Satellite Data

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





Ben DeVries, University of Maryland devries.br@gmail.com

www.aswm.org 207-892-3399



Thank you for your participation!





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