



WETLAND NEWS DIGEST

Monthly News Digest of the National Association of Wetland Managers

February 2022

Editor's Note

Dear Wetlanders

I am thrilled to bring you the first issue of *Wetland News Digest* as the National Association of Wetland Managers, or NAWM (sounds like “nom nom”).

In the Editor's Choice section, we shine the spotlight on inspiring women in science from [Washington Department of Ecology](#) and [Delaware Department of Natural Resources and Environmental Control](#) in honor of International Day of Women and Girls in Science (Feb 11). And it's only fitting to celebrate women in wetlands and World Wetlands Day (Feb. 2) with [Wetlands Sake](#), a new woman-owned brewery in New Orleans made with locally-grown rice. Cheers!

In national policy, news continues on the effects of an unsteady definition of Waters of the U.S. (WOTUS). This month NAWM submitted comments on the revised WOTUS definition, which you'll find in [Editor's Choice](#).

This issue also includes several stories highlighting many different ways we value wetlands—culturally, ecologically, and economically. A pre-publication report (forthcoming in *American Economic Review*) from [Resources for the Future](#) quantifies the benefits of wetlands for reducing flood damages. As you'll read in several studies, wetland plants may provide beneficial insights as we adapt to climate change and rising oceans.

My heart lightens with accounts of everyday people interacting with and appreciating wetlands in their neighborhoods and communities. Writing to you from Maine, our lakes, ponds and wetlands are all frozen over, and I enjoy the new perspective that comes from connecting with these spaces that are inaccessible by foot in other times of year. I find myself getting still and quiet as I crouch among the reeds and cattails and investigate animal tracks left behind in the snow. In contrast to the daily wave of changes our world presents, winter reminds us of our need to pause. I encourage you to find moments each day to be still and just breathe. And if it's available to you, enjoy a frozen wetland.

Audra Martin
Editor, *Wetland News Digest*
NAWM

Know of an interesting news story? Share it with us at news@aswm.org and you may see it featured in the next issue!

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ecobot

Use the Ecobot Wetland Delineation App For Unparalleled Efficiency: Field and Office

GET A DEMO

Editor's Choice



Sponsor Wetland News Digest

Wetland News Digest (WND) sponsorship provides the perfect opportunity for your business to increase its visibility with members of the wetlands and water resources community and reinforce your continued commitment to wetlands in the U.S.

**Information on
sponsorship,
can be found here.**

Photo by Michele Mihalovich

NAWM Comments on Revised Definition of "WOTUS"

National Association of Wetland Managers – February 3, 2022
The National Association of Wetland Managers submitted comments in response to the proposed rule, "Revised Definition of 'Waters of the United States'". The NAWM letter addresses the following key issue areas: 1) importance of working with states and tribes to define WOTUS; 2) importance of a durable regulatory definition of WOTUS; 3) importance of proceeding to Rule 2; 4) environmental justice concerns; 5) need to consider climate change; 6) waters included in the definition of WOTUS; 7) WOTUS tools and implementation issues; and 8) considerations for Rule 2. [Read the full comment letter.](#)

Celebrating Women and Girls in Science Day

By Stephanie May – Washington State Department of Ecology – February 11, 2022
Women and Girls in Science Day on February 11 provides an opportunity to spotlight the importance of women in science, technology, engineering, and math (STEM). While participation has significantly improved, women are still under-represented in these fields. [Read more.](#)

STEM Women of DNREC

Delaware Department of Natural Resources and Environmental Control – February 11, 2022
They are engineers, biologists, scientists and leaders at the Department of Natural Resources and Environmental Control. They are also women in STEM fields, who work in the science, technology, engineering and mathematics sectors. [Read more.](#)



Photo by Michele Mihalovich

Upcoming NAWM Members' Webinar Series

Members' Only Webinars - [Join NAWM Here](#)

Coastal Wetland Migration as a Climate Change Resiliency Strategy: Conservation Planning and Decision Making



Wednesday, February 23, 2022 – 3:00 p.m.–4:30 p.m. Eastern

Presenter:

Mary Schoell, NOAA Digital Coast Fellow

[Register Here](#)

[More Information](#)

The Extent of Intermittent and Perennial Streams in North Carolina with Extrapolation to Portions of Virginia, South Carolina, and Georgia



Wednesday, March 30, 2022 – 3:00 p.m.–5:00 p.m. Eastern

Presenter:

John Dorney, Moffat & Nichol

[Register Here](#)

[More Information](#)

Managing Impacts to Wetlands from Solar Development



Wednesday, April 27, 2022 – 3:00 p.m.–4:30 p.m. Eastern

Presenter:

Laura Lapierre, Vermont Department of Environmental Conservation

[Register Here](#)

[More Information](#)

A Certificate of Participation to be used toward Continuing Education Credits will be available for this webinar. Free Certificates of Participation are a benefit of [NAWM membership](#). Non-Members who request a certificate will be charged a processing fee of \$25.00. Certificates are not available for viewing recorded webinars. [Click here](#) for more Information.

National News



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Photo by Sharon Weaver, NAWM

EPA clashes with Fla. over use of Trump WOTUS rule

By Hannah Northey – E&E News Greenwire – February 4, 2022
EPA and Florida are nose to nose over the state's use of Trump-era Clean Water Act regulations for permitting. At the heart of the debate is the Trump administration's Navigable Waters Protection Rule that pulled back protections for streams and wetlands across the nation. Federal judges in Arizona and New Mexico vacated the rule and sent it back to EPA last summer, saying the Trump definition of "waters of the United States" (WOTUS) had "fundamental, substantive flaws." But Florida isn't budging. [Read more.](#)

Just as EPA Was Fixing Wetlands Rules, Along Come the Sacketts . . . Again

By David Smith, Manatt, Phelps & Phillips, LLP – JD Supra – January 27, 2022
The Idaho family that upended the Obama administration's wetlands regime in the Supreme Court is back, much to the dismay of the Biden administration. On Monday, the Supreme Court issued a surprise order agreeing to review, for a second time, the Environmental Protection Agency's (EPA) decadelong effort to regulate one family's half-acre subdivision lot in Idaho. The high court classified its grant of review as "limited" to a single question. That limited question, however, dominates the debate over the permissible breadth of regulatory review of "waters of the United States" (WOTUS), including wetlands, under the federal Clean Water Act (CWA). The case could have a sweeping impact on the breadth of permissible regulatory enforcement by the federal government. [Read more.](#)

Inside Stephen Breyer's Clean Water Act legacy

By Panela King, Hannah Northey – E&E News Greenwire – January 18, 2022
Halfway through a November 2019 argument in a blockbuster Clean Water Act case, Justice Stephen Breyer had an idea. For nearly 30 minutes, the Supreme Court had been grappling with a complicated question: Does pollution that flows through groundwater on its way to navigable waters require a federal permit? A lower court had said that it does — at least in the case of wastewater that had moved from a sewage facility in Maui County, Hawaii, traveled a short distance through porous lava rock and spewed into the Pacific Ocean. The case, *County of Maui v. Hawaii Wildlife Fund*, had then advanced to the Supreme Court, where some legal observers expected the five-member conservative majority to substantially limit the reach of the Clean Water Act. But in the midst of the argument, Breyer, a member of the court's liberal wing, conceived of a test that eventually proved palatable to some of his Republican-appointed colleagues. [Read more.](#)

Major Wetland Non-Profit's New Name, Logo Reflect Expanded Mission



The Association of State Wetland Managers' (ASWM) Board of Directors is excited to announce a new chapter in the history of ASWM. After two years of hard work with a professional facilitator, the Board voted on December 9, 2021, to change the name of the Association of State Wetland Managers to the National Association of Wetland Managers (NAWM).

"This is an exciting time for the Association, and we feel this change better reflects the work of the organization, and is more inclusive in serving the membership", says Mark Biddle, Board Chair. "The Board of Directors fully endorses the rebranding and looks forward to supporting the National Association of Wetland Managers as it continues to grow and add value to the wetland community."

The Association's membership was consulted regarding the potential name change and responded with overwhelming support. In fact, 89.6% of the respondents were in support of the name change (only 2.31% were opposed). When asked to approve the name change in the Association's constitution, 98% of the membership who voted approved the change. The Association's new logo retains the frog but has changed to a circle to reflect a more inclusive mission moving forward.

"The intention behind the change was to let our community of practice (which includes not only states, but also tribes, local agencies, federal agencies, private consultants, non-profits, universities, and more), know that everyone has a seat at our roundtable, in particular our tribal colleagues," explained Marla Stelk, Executive Director. "NAWM will continue to robustly support state wetland programs and be a voice for state wetland programs in federal policy decisions and elsewhere. However, we feel that our impact will be greatly magnified by providing a framework for all wetland managers to collaborate, learn from each other, and improve our collective efforts to protect, restore and manage our critical wetland resources."

The NAWM is an independent 501(c)(3) nonpartisan organization whose mission is to build capacity for state and tribal members and foster collaboration among the wetland community of practice by encouraging the application of sound science to wetland management and policy, promoting the protection and restoration of wetlands and related aquatic resources, and providing training and education for members and the general public.



Photo by Laura Burchill, NAWM

August 15-19, 2022

National Association of Wetland Managers Annual State/Tribal/Federal Coordination Meeting

Protecting Waters in a Time of Rapid Change

National Conservation Training Center
Shepherdstown, WV



We invite you to join us for **NAWM's Annual State/Tribal/Federal Coordination Meeting**, to be held at the National Conservation Training Center (NCTC) from **August 15-19, 2022**. The purpose of this annual meeting is to support state and tribal wetland program managers, and other wetland professionals as they respond to challenges in the coming year. Although we are currently scheduled to be at the NCTC, we will be monitoring the COVID-19 pandemic very closely and will follow all federal guidelines and mandates related to the pandemic. If circumstances require it, we will shift the meeting to a fully virtual format.

**REGISTRATION
OPENS
MAY 2ND**

CALL FOR ABSTRACTS – OPENS MARCH 23

All abstracts must address wetland-related issues relevant to the agenda topics for the 2022 Annual State/Tribal/Federal Coordination Meeting

JON A. KUSLER STUDENT SCHOLARSHIP AWARD – OPENS MARCH 23

The Jon A. Kusler Student Scholarship Award competition opens Wednesday, March 23, 2022. The Award will fund all expenses for one or more students studying wetland science, law or policy (either undergraduate or graduate level) to attend NAWM's annual State/Tribal/Federal Coordination meeting.

STATE/TRIBAL SCHOLARSHIPS – OPENS MAY 2

A limited number of scholarships are available to assist those in need to cover registration costs to attend NAWM's Annual State/Tribal/Federal Coordination Meeting. Our intent is to support as many people as possible with the limited amount of funding that we have. If you are able to cover some of your registration costs, that will enable more of our colleagues to attend.

SPONSORSHIP OPPORTUNITY – NOW OPEN

Sponsor Benefits: Sponsors are invited to attend and interact with meeting participants throughout the four-day meeting. In the past, this meeting has been attended by approximately 135 engaged in-person participants. All sponsors receive prominent logo placement on all meeting materials and the option to have an exhibitor table at the meeting. Sponsor logos will appear on the Annual State/Tribal/Federal Coordination Meeting event website, meeting program and conference communications (including social media).

MORE INFORMATION IS AVAILABLE HERE

State and Tribal News



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Webinars &
Trainings

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Upcoming NAWM
Webinars
Here

Photo by Marla Stelk, NAWM

CA: Salk scientists study value of wetlands ahead of Love Your Wetlands Day

By Bree Steffen – Spectrum News 1 – February 4, 2022

Most people picture gorgeous beaches when they think of Southern California, but there are some that have discovered the beauty of wetlands. Scientists are taking that beauty and studying it to help protect the world. Nature has always been an escape for Jackie Kim. Places such as the Kendall-Frost Marsh Reserve helped her family during the pandemic. Their nature journals became a way to cope during lockdown. [Read more.](#)

FL: US announces historic \$1.1 billion investment for Everglades rehabilitation

RTL Today – January 20, 2022

The plan to restore the Florida Everglades, the largest wetlands in the United States, will receive a federal investment of \$1.1 billion to protect the region against the effects of climate change, the White House said Wednesday. "The Administration is making the largest single investment in the Everglades in US history," the White House said in a statement. The money, which comes from already approved funds in President Joe Biden's \$1.2 trillion infrastructure package passed by Congress in November, will be spent by the US Army Corps of Engineers. "The iconic American landscape provides drinking water supply for over 8 million Floridians, supports the state's \$90 billion tourism economy, and is home to dozens of endangered or threatened species," the White House said. [Read more.](#)

GA: 11th Circuit asked to revive case against developer that filled in Georgia wetland

By Kayla Goggin – Courthouse News Service – February 11, 2022

The 11th Circuit appeared poised on Friday to give two Georgia environmental conservation groups another chance to pursue allegations of Clean Water Act violations against a real estate developer they say landscaped over a wetland without proper permits. Attorney John Brunini of Butler Snow found a highly receptive audience in the three-judge panel as he argued via Zoom conference that a Georgia federal judge made a mistake when he tossed out the groups' claims based on a lack of legal standing. [Read more.](#)

Chippewa Tribe: How Giving Legal Rights to an Indigenous Food Could Stop a Pipeline

By Eamon Whalen – MotherJones – February 9, 2022

In 2018, Frank Bibeau, a member of and attorney for the White Earth band of Anishinaabe—the largest of the six federally recognized Indigenous reservations that make up the Minnesota Chippewa Tribe—had an idea. By that point, for the better part of a decade, Bibeau had been part of organizing efforts to stop the construction of Line 3. A pipeline set to transport tar-sands crude oil from Alberta, Canada, across 330 miles of northern Minnesota to Superior, Wisconsin, Line 3 was planned as a replacement for an older pipeline. But the new Line 3 would carry double the oil, enough to produce the carbon emissions equivalent to the yearly output of 50 coal power plants. After years of dutifully participating in the state's regulatory processes around Line 3, Bibeau was coming to realize in 2018 that he'd have to find a new strategy that went above and beyond the usual legal tactics used by environmentalists. [Read more.](#)

NY: A renewed push to protect wetlands —Gov. Hochul proposal would strengthen protections

By Zachary Matson – Adirondack Explorer – February 8, 2022

Scientists refer to the large peat bogs in the northwestern Adirondacks, some well over 1,000 acres in size, as “charismatic” due to their critical habitat, vast expanse and rare nature. The peatlands provide some bird species habitat at their southernmost range and are showing early signs of climate change as many of those bird species retreat to higher altitudes and more northern climes. Warming weather has disrupted the food cycles the birds rely on. While scientists have documented a bird decline in the bogs over more than a decade, the same research has shown that the strongest wetlands ecosystems are those best preserved in size and scale. Now, environmentalists across New York hope to strengthen wetlands protections and preserve as much of the important ecosystem as possible. A proposal in Gov. Kathy Hochul's budget would strengthen protections for over 1 million acres statewide and improve the public maps that specify their locations. It would also grant the Department of Environmental Conservation commissioner a wide berth to designate wetlands of special importance worthy of protection. [Read more.](#)

TX: Urban Golf Course-Turned-Wetland Cuts Storm and Flood Impacts

NOAA Office for Coastal Management

When fierce storms bear down on the Texas community of Clear Lake, a reclaimed urban wetland, transformed from an abandoned golf course, performs exactly as it should—acting as a sponge to keep floodwaters away from area homes. The 200-acre wetland and green space, named [Exploration Green](#), protects this land from commercial development. It was supported by the Texas General Land Office's Coastal Management Program through a grant from NOAA's Office for Coastal Management. [Read more.](#)

WV: WVDEP receives wetland program development grant from U.S. EPA

Contact: Terry Fletcher – West Virginia Department of Environmental Protection – February 2, 2022

In honor of World Wetlands Day, the West Virginia Department of Environmental Program (WVDEP) is announcing it has received a wetland program development grant of \$322,702 from the U.S.

Environmental Protection Agency (EPA). The grant will allow the WVDEP to update wetland mapping for 23 counties in West Virginia and develop public outreach programs to encourage community involvement in citizen science and wetland protection. [Read more.](#)

NAWM Welcomes New Project Manager Portia Osborne



Portia Osborne is a Project Manager at the National Association of Wetland Managers, where she provides program support including managing and implementing individual projects, coordinating overall project schedules, tracking project deadlines and outputs, delivering workshops and trainings, facilitating and coordinating various work groups, and moderating webinars. Portia has a decade of experience working as a biologist and project manager in environmental consulting in Texas and Maine. During that time, she conducted natural resource assessments, wetland delineations, conditional and functional assessments of aquatic resources, and threatened and endangered species habitat assessments. She prepared state and federal-level permit applications for transportation, oil and gas, and renewable energy projects located across the country including permit applications under Section 404 of the Clean Water Act in ten different U.S. Army

Corps of Engineers (USACE) districts. Portia also wrote Biological Assessments for consultation under the Endangered Species Act (ESA), as well as portions of National Environmental Policy Act (NEPA) documents for multiple Environmental Assessments and two Environmental Impact Statements. Portia earned her MS in Ecology and BS in Environmental Biology from the State University of New York College of Environmental Science and Forestry (SUNY-ESF).

STUDENTS DON'T MISS THIS GREAT OPPORTUNITY!

The National Association of Wetland Managers (NAWM) and the [Society of Wetland Scientists](#) (SWS) have an exciting new opportunity for students to get memberships to both organizations for the price of one! Any student who joins either organization in 2022 will receive a free, complimentary membership to the other organization. To take advantage of this opportunity, all you have to do is purchase a student membership to one organization, and the other membership will be provided to you for free. For more information, please contact Laura Burchill, NAWM's Office Manager, at laura@aswm.org or by calling our office at 207-892-3399.



NAWM Membership Benefits

[Join Here](#)
Rates Increase Spring of 2022



NAWM supports and works with you to advance the field of wetland management, building your expertise while cultivating future wetland scientists & practitioners.

NAWM serves its members by:

- building capacity for state and tribal wetland programs,
- fostering collaboration among the wetland community of practice,
- encouraging the application of sound science to wetland management and policy,
- promoting the protection and restoration of wetlands and related aquatic resources, and
- providing training and education for members and the public.

Training & Professional Development — *Update or refresh your knowledge*

- Access to NAWM Online Trainings earning free Certificates of Completion. This growing library features two mini-courses with a total of 27 modules totaling nearly 30 hours of available training.
- Discounted registration at NAWM's Annual State/Tribal/Federal Coordination Meeting.
- Special NAWM Member discounts for select non-NAWM wetland trainings and courses.



Education & Resources — *Stay current on the latest tools and advances in the field, policy and legal issues from the Hill, and applied wetland science with exclusive online information*



- Complementary subscription to NAWM publications—the pulse on wetland happenings across the nation—delivered to your inbox.
 - ✓ **Wetland News** – NAWM's Member Newsletter (6 issues per year)
 - ✓ **Insider's Edition** – Weekly e-news
- Complementary registration to 8+ NAWM Members' Webinars and exclusive on-demand access to recordings.
- Members receive complementary Certificates of Participation for any NAWM webinar (a savings of \$25 each).
- **Coming Soon** – Access to a Members-only Federal Policy Tracking Tool to quickly sort through the dynamic landscape of wetland-related federal policy, such as WOTUS, CWA 401 and 404, among others.

Enhance Your Network — *with the wetland community of practice*

- Access to a national network of 1,300 wetland professionals including members from state and tribal wetland programs, federal agencies, the private sector and universities
- **Coming Soon** – Participate in Members-only Discussion Forums on a range of topics
- Submit wetland-related job notices to appear on the NAWM Job Board and Insider's Edition
- Corporate group memberships (10+ people) include logo with live link on NAWM's website



Impact & Leadership — *Take an active role in the Association and advance the field*



- Opportunities for involvement in NAWM Committees
- Eligible to join the Board of Directors
- Voting rights in Board of Directors elections and all issues brought to a member vote
- **Coming Soon** – Student mentorship program

Special NAWM Member Discount to Non-NAWM Select Wetland Training and Courses

Eagle Hill Institute Online Seminars

NAWM Members receive a **20% discount** on Eagle Hill Institute tuition and accommodations. Examples include:

- Seminar: Wetland Identification, Delineation and Ecology – July 10-16, 2022
- Online Seminar: The Genus Quercus: Ecology, Evolution, and Global Distribution March 21, 23, 25, 2022
- [See a complete list of their Seminars/Workshops here.](#)

[Login Here](#) for more information and to get code.

Swamp School Training Courses

NAWM Members receive a **10% discount** on Swamp School Courses. Examples include:

- Standard Wetland Delineation Training [Classroom/Field] – April 25-28, 2022, Aliquippa, PA
- Online: Stream Restoration Courses
- [See a complete list of their training courses here](#)

[Login Here](#) for more information and to get code.

Duncan & Duncan Wetland and Endangered Species Training (D&D West)

NAWM Members receive a **15% discount** on all courses.

- Wetland Delineation Overview (Coastal Plain or Eastern Mountains/Piedmont) – offered June 28, 2022, Charleston, SC and October 18, 2022, Atlanta, GA
- [See a complete list of their Courses here](#)

[Login Here](#) for more information and to get code.

Welcome Member!

As a member you have access to the following benefits:

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Wetland News (ASWM's membership newsletter)

- Past Issues of Wetland News

Members' Webinar Series

- Past Members' Webinar Recordings

Special ASWM Member Discount for Non-ASWM Wetland Trainings & Courses

NEW: ASWM Members' Training Series

Online Training Program to earn Certificates of Completion (towards CEUs)

For other membership benefits, [click here.](#)

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Photo by Laura Burchill, NAWM

Wetland Science News



Wetland Events

Wildwood Park
Wetlands Festival
April 23, 2022
Harrisburg, PA

“Ding” Darling Wildlife Society
**33rd Annual “Ding”
Darling Day**
April 24, 2022
Fort Myers, FL

**Indiana Dunes Birding
Festival**
May 12-15, 2022
Porter, IN

[See Calendar of Events
Below](#)

Photo by James Treacy, ESS Group, Inc.

How Mapping Beaver Wetlands Can Chart a Path to a Better Water Future

By Kara Stevens and Peter Skidmore – Walton Family Foundation – February 9, 2022

At a time when climate change increasingly threatens water resources across the American West, what can we do to secure a future of sustainability rather than scarcity? One promising way forward: Look to nature-based solutions from the past. In the 16th century, long before Europeans settled the continent, the North American beaver was the continent’s most diligent and effective water manager. [Read more.](#)

Chloride removal capacity and salinity tolerance in wetland plants

By Maria Schück and Maria Greger – ScienceDirect – April 15, 2022
Deicing with sodium chloride maintains safe roads in the winter, but results in [stormwater](#) runoff with high chloride (Cl^-) content that causes various downstream problems. Chloride-rich water risks contaminating groundwater, shortening the lifespan of concrete and metal constructions, and being toxic to aquatic organisms. Current stormwater treatment methods are unable to remove Cl^- , but [wetland](#) plants with high chloride uptake capacity have potential to decrease Cl^- concentrations in water. The aim was to identify suitable [plant species](#) for removing Cl^- from water for future studies on phytodesalination of water, by comparing 34 wetland plant species native to Sweden in a short-term screening. [Read full paper.](#)

Underwater 'breathing' plants could be key to stress-resistant crops

Nagoya University – ScienceDaily – February 6, 2022
Wetland plants have a high tolerance against flooding due to the formation of 'lysigenous aerenchyma,' air channels that help transfer gases to the submerged roots. These channels also help the plant withstand drought and nutrient deficiency. Now, scientists investigate the underlying mechanism of aerenchyma formation to understand the phenomenon better, opening doors to the development of crops that are resilient against extreme weather changes. [Read full study.](#)

Coastal wetlands can become too salty for some resident plants

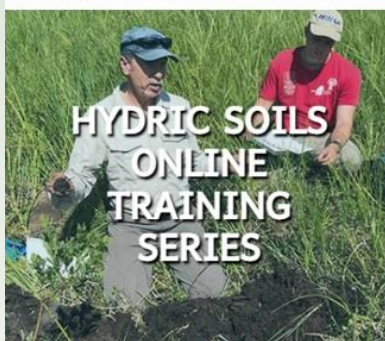
By Alison Bosman – Earth.com – January 27, 2022

Rising sea levels introduce salt water into coastal wetlands, and this has effects that can be seen well above the high-tide level. Although these effects have been studied for coastal salt [marshes](#) with their salt-tolerant plant communities, the same cannot be said for coastal wetlands that lie further inland and are characterized by the presence of fresh water. [Read more.](#)

Climate Change or Habitat Loss? New Study Weighs Which Influences Birds More

By Spoorthy Raman – Audubon – January 21, 2022

In 1900, on Christmas Day, 27 birders in 25 locations across the United States donned winter gear and binoculars, then stepped outside to list all the birds they could see in 24 hours. They didn't know it then, but they were launching what would become the world's longest-running community science project on birds. Much has changed since that first count: Global temperatures have risen by 1 degree Celsius, or 1.8 degrees Fahrenheit, the U.S. population has more than quadrupled, and 64 percent of the world's wetlands have been destroyed. [Read more.](#)



NAWM's Online Trainings

We updated our library! Two popular webinar series are now available for anytime, anywhere learning. The [Beaver-Related Restoration Training Series](#) contains six modules developed with the Bureau of Land Management and with guidance from a national workgroup of beaver restoration experts. The [Compensatory Mitigation Training Series](#) contains nine modules developed with the U.S. Army Corps of Engineers. Each online module is accompanied by an optional knowledge assessment quiz which, upon successful completion, may be submitted to the accrediting organization of choice to potentially receive continuing education units/credits (CEUs).

As a benefit of [NAWM Membership](#), members Log In to view the modules and take the knowledge-based quizzes. Non-members also have access to the modules via the Online Training pages. The quizzes and certificates have processing fees per module.

The next step in updating our Online Training library is scheduled maintenance on our [Hydric Soils Online Training Series](#). The videos and supporting materials are offline and expected to return on Thursday, March 3rd.

Resources and Publications



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Photo by Sharon Weaver, NAWM

World Wetlands Day- global view: Nature Can Help Solve Crises, with Investment: Joint Report

SDG Knowledge Hub – February 3, 2022

The UN Environment Programme (UNEP) released a report on the 'state of finance for nature,' finding an investment gap of USD 165 billion per year from G20 countries for nature-based solutions, in order to meet currently agreed global targets by 2050. The biodiversity and climate finance gaps are emphasized in the draft post-2020 global biodiversity framework and the 2021 Glasgow Climate Pact. [Read more.](#) [Read the report.](#)

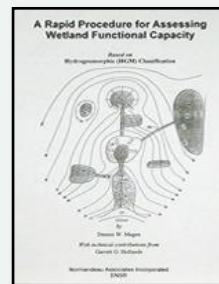
Wetlands, Flooding, and the Clean Water Act

By Charles A. Taylor and Hannah Druckenmiller – Resources for the Future – Working Paper January 24, 2022

In 2020, the EPA narrowed the definition of 'Waters of the United States', significantly limiting wetland protection under the Clean Water Act. Current policy debates center on the uncertainty around wetland benefits. We estimate the value of wetlands for flood mitigation across the US using detailed flood claims and land use data. We find the average hectare of wetland lost between 2001 and 2016 cost society \$1,840 annually, and over \$8,000 in developed areas. We document significant spatial heterogeneity in wetland benefits, with implications for flood insurance policy and the 50% of 'isolated' wetlands at risk of losing federal protection. [Download the working paper.](#)

NAWM Wetland Publications
We have limited quantities of NAWM publications available.

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NAWM'S WETLAND JOBS BOARD

Regional Biologist

Ducks Unlimited
Rancho Cordova, CA
ID 1391

Summer Land Management Internship

4 openings
Mississippi Valley Conservancy
La Crosse, WI
Open until filled

Postdoctoral Research Associate -

Applied Ecology

William & Mary's VIMS/SMS
Williamsburg, VA
Review begins February 16, 2022

Biologist

U.S. Army Corps of Engineers
Davidson County, TX
Apply by February 24, 2022

Ecologist

U.S. Geological Survey
Baton Rouge, LA; Lafayette, LA
Apply by February 25, 2022

Environmental Scientist

CA State Water Resources Control Board
Sacramento, CA
Apply by March 2, 2022

Lead River Ambassador - Seasonal

SuAsCo River Stewardship Council
Boston, MA
Apply by March 14, 2022

Seasonal Wetland Field Technician

(Posted 2/10/22)

Delaware Department of Natural Resources
and Environmental Control
Dover, DE
Apply by April 3, 2022

Environmental Consultant

Florida Department of Environmental
Protection
Tallahassee, FL
Apply by February 23, 2022

[Visit the NAWM Jobs Board Here](#)

GRANT OPPORTUNITIES

NAWCA 2023-1 US Standard Grants

U.S. Fish and Wildlife Service
Search No.: F23AS00002
Apply by February 25, 2022

CREP Mini-Grant Program 2022

PACD
Apply by February 25, 2022

Huyck Preserve and Biological Research Station Research Grants

Rensselaerville, NY
Apply by February 25, 2022

Potpourri



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to
NAWM

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Support
Wetlands

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Photo by Sharon Weaver, NAWM

UW-Madison: Researchers create online game that lets players reimagine land use based on real science

WIS Politics – February 3, 2022

UW–Madison researchers teamed with New England conservation nonprofit Mass Audubon to create an online learning game that lets players model how different zoning choices would affect the environment, jobs, housing and other real-world factors for any location in the contiguous U.S. Built using a variety of state and federal data sets, the free game, known as iPlan, lets players simulate different land-use scenarios and see the changing effects on their community, for good or bad or in between. [Read more.](#)

Rice Farming to Restore Soil

By Naoki Nitta – Earth Island Journal – February 1, 2022

Staten Island sits deep in California’s Sacramento-San Joaquin River Delta, one of numerous puzzle-piece-shaped isles carved from reclaimed wetland. Like much of the lowland region, the island is mostly farmland and completely encircled by several miles of levee. The shallow crater contains an expansive mosaic of fields within it, with waterways perched precariously around its outer rim. Dawit Zeleke, president of the nonprofit Conservation Farms and Ranches, runs Staten’s 8,500-acre working farm. While corn and potato fields take up most of the island, towards its southern tip, grassy stalks of rice wave knee-high in flooded paddies. Along with the flocks of long-legged shorebirds and wading waterfowl, the 1,000 acres of flat, wet fields seem right at home in the swampy landscape. Rice, however, is an uncommon crop in the Delta — and for this Northern Californian farmer, an entirely new venture. [Read more.](#)



Photo by Laura Burchill, NAWM

Removing Sediment to Restore Wetlands Clears Revenue Paths

By Sam Feibel – Conservation Finance Network – January 24, 2022

“My day job wasn’t to take care of watersheds,” said Eric Scott, Senior Vice President of Real Estate Operations for Oak Tree Development Group. But watershed restoration became part of his firm's project budget and drove up its revenue. In 2017, the real estate company began construction at Lime Spring Square, a 98-acre commercial and residential site in Lancaster, Pennsylvania. As part of the planning process, Scott and his team had to decide which Best Management Practices (BMPs) to implement to meet federal and state post-construction stormwater management requirements at the lowest cost. Persuaded by the promise of more developable land, Oak Tree opted for an innovative restoration approach called floodplain restoration. The idea was to improve the health of the site’s stream—and the valley bottom in which it flows—rather than focus on upland areas. [Read more.](#)

Vermont flood costs could exceed \$5.2 billion

By Mary Kueser, Catherine Arnold, and Basil Waugh – Eagle Times – January 18, 2022

Property damages from flooding in Vermont are calculated to exceed \$5.2 billion over the next 100 years, new University of Vermont research finds. The most flood damages are projected along the Winooski River floodplains, which houses many of the state’s most populous towns, including Burlington, Essex, Colchester, Williston and Montpelier. The findings result from a new tool developed by UVM scientists that provides the first ever comprehensive map of flood risks across Vermont’s Lake Champlain basin. [Read more.](#)



NMEBC 2022
MAY 2-6, 2022 • BOISE, IDAHO

NATIONAL MITIGATION
& ECOSYSTEM BANKING
CONFERENCE

25th Anniversary

National Mitigation & Ecosystem Banking Conference
May 2-6, 2022
Boise, ID/Virtual

Connecting Policy, Practice, Business, Science & People
Investing In The Environment Is What This Conference Is About

[Agenda](#) [More information is available here.](#)

Share Your Wetland Photos!

The National Association of Wetland Managers (NAWM) is hoping you'll share a variety of your wetland photos (wetlands, flora, fauna, and wetland friends) for NAWM to use in our social media posts and NAWM publications.

Photos should be submitted in .jpg, .png, or .pdf format.

Photo by Laura Burchill, NAWM

[Share Your Wetland Photos Here](#)

Environmental Events

- [Earth Hour](#) – March 26
- [World Water Day](#) – March 22
- [International Beaver Day](#) – April 7
- [Earth Day](#) – April 22
- [Save the Frogs Day](#) – April 30
- [Endangered Species Day](#) – May 20
- [International Day for Biological Diversity](#) – May 22
- [World Environment Day](#) – June 5
- [World Rivers Day](#) – September 25
- [World Migratory Bird Day](#) – October 12
- [America Recycles Day](#) – November 15
- [World Soil Day](#) – December 5

Photo by Laura Burchill, NAWM

Environmental Photo Contests – 2022

[Audubon's 2022 Photography Awards Contest](#)

Enter between January 12-March 9, 2022

[2022 Grassy Waters Preserve Photography Contest](#)

Enter between February 1-28, 2022

[Earth.Org Global Wildlife & Natural World Photography Competition 2022](#)

Enter by April 29, 2022

Photo by Sharon Weaver, NAWM

Calendar of Events

WEBINARS 2022

FEBRUARY 2022

February 23, 2022 3:00 p.m.-4:30 p.m. ET	National Association of Wetland Managers Members' Webinar Series: Coastal Wetland Migration as a climate Change Resiliency Strategy: Conservation Planning and Decision Making
February 26, 2022 1:00 p.m.	Coastside Land Trust Webinar: Soil Health and the San Mateo Coast
February 28, 2022 11:00 a.m.	NISAW Webinar: U.S. Geological Survey Decision Science – Modeling and Structured Decision Making

MARCH 2022

March 18, 2022 11:30 a.m. ET	Wisconsin Wetlands Association: Wetland Coffee Break Webinar: Toward more effective invasive species management: Part 1: Emphasize system dynamics over community structure
March 25, 2022 11:30 a.m. ET	Wisconsin Wetlands Association: Wetland Coffee Break Webinar: Toward more effective invasive species management: Part 2: How a system dynamics approach works in practice
March 30, 2022 3:00 p.m.-5:00 p.m. ET	National Association of Wetland Managers Members' Webinar Series: The Extent of Intermittent and Perennial Streams in North Carolina

APRIL 2022

April 15, 2022 11:30 a.m. ET	Wisconsin Wetlands Association: Wetland Coffee Break Webinar: Whooping crane conservation in Wisconsin
April 27, 2022 3:00 p.m.-4:30 p.m. ET	National Association of Wetland Managers Members' Webinar Series: Managing Impacts to Wetlands from Solar Development

MAY 2022

May 18, 2022 4:00 p.m. ET	Northeast Climate Adaptation Science Center Webinar: Tribal & Indigenous-Based Climate Adaptation Priorities in the NE CASC Region
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MEETINGS 2022

FEBRUARY 2022

February 23-25, 2022
Hybrid: Grand Junction, CO
and Virtual

RiversEdge Wests: [Riparian Restoration Conference](#)

MARCH 2022

March 1-12, 2022
Virtual

Massachusetts Association of Conservation Commissions (MACC):
[Annual Conference Week](#)

March 2, 2022
Virtual

University of Washington Botanic Gardens: [2022 Washington Botanical Symposium](#)

March 8-10, 2022
Baltimore, MD

Beaver Institute: [BeaverCON Conference](#)

March 9, 2022
Virtual

[Connecticut Association of Wetland Scientist Annual Meeting](#)

March 16-18, 2022
Cleveland, OH

International Association of Great Lakes Research: [State of Lake Erie Conference](#)

March 16-18, 2022
Gettysburg, PA

[Pennsylvania Land Conservation Conference](#)

March 22-23, 2022
Virtual

Coastal Quest Conference: [Accelerating Solutions for a Resilient Coast](#)

March 24-26, 2022
Cambridge, OH

Ohio Wetlands Association: [Vernal Poolooza Science Conference](#)

March 25, 2022
Virtual

Soil and Water Conservation Society: Southern New England Chapter:
2022 Winter Conference: Soil Carbon Storage: [Combating Climate Change from the Ground Up](#)

APRIL 2022

April 6-8, 2022
Stevens Point, WI

University of Wisconsin: [2022 Wisconsin Lakes and Rivers Convention: Protecting What We Love for the Future](#)

April 9, 2022
9:00a.m.-12:00p.m.
Accokeek, MD

Alice Ferguson Foundation: [34th Annual Potomac River Cleanup](#) - FREE

April 12, 2022
Virtual

University of Washington Botanic Gardens and the Northwest Chapter of the Society for Ecological Restoration: [2022 Ecological Restoration Symposium: Unprecedented Times: Addressing Modern Challenges](#)

April 18-22, 2022
Oostende, Belgium

[22nd International Conference on Aquatic Invasive Species](#)

April 22-24, 2022
Albany, NY

Eagle Hill Institute: [Northeast Natural History Conference](#)

April 23, 2022 Harrisburg, PA	Wildwood Park: Wetlands Festival
April 23, 2022 Menasha, WI	Heckrodt Wetland Reserve: Mayhem in the Mud!
April 24, 2022 Fort Myers, FL	“Ding” Darling Wildlife Society: 33rd Annual “Ding” Darling Day
April 26-29, 2022 St. Petersburg, FL	Center for Watershed Protection National Conference

MAY 2022

May 2-6, 2022 Boise, ID/Virtual	National Mitigation & Ecosystem Banking Conference: Invest in the Environment Discover Ecological Solutions
May 12-15, 2022 Porter, IN	Indiana Dunes Birding Festival
May 15-19, 2022 Orlando, FL	Association of State Floodplain Managers Conference
May 16-18, 2022 Southern California	2022 Southwestern Tribal Climate Change Summit: Exploring the Fire Within Us
May 16-20 Grand Rapids, MI	International Association for Great Lakes Research (IAGLR) IAGLR22: 65th Annual Conference on Great Lakes Research: Joint Aquatic Sciences Meeting 2022
May 21, 2022 Stone Harbor, NJ	The Wetlands Institute: Spring Shorebird and Horseshoe Crab Festival
May 24-26, 2022 Muskegon, MI	Michigan Department of Environment, Great Lakes, and Energy: U.S. Great Lakes Areas of Concern Conference

JUNE 2022

June 4-7, 2022 Washington, DC	River Network: River Rally
June 7-8, 2022 Washington, DC	River Network and American Rivers: Action Day for Clean Water and Rivers
June 8, 2022 San Francisco, CA	Aquarium of the Bay: World Ocean Day - Awareness to Action Climate Summit
June 24-28, 2022 Cleveland, OH	American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists Joint Meeting: Evolution 2022



Photo by Marla Stelk, NAWM

JULY 2022

July 16-21, 2022 Reno, NV	North American Congress for Conservation Biology: Restoring Connections and Building Resilience in a Changed World
July 31-August 3, 2022 Denver, CO	Soil and Water Conservation Society 77 th International Annual Conference: Elevating Conservation to New Heights

AUGUST 2022

August 14-19, 2022 Montreal, Quebec, Canada	Ecological Society of America Annual Meeting: A Change is Gonna Come Deadlines: Important Dates
August 29-September 1, 2022 St. Paul, MN	Institute for Tribal Environmental Professionals: National Tribal & Indigenous Climate Conference

SEPTEMBER 2022

September 6-9, 2022 Duluth, MN	Natural Areas Association: Natural Areas Conference
September 21-22, 2022 Port Aransas, TX	University of Texas Marine Science Institute: Texas Bays and Estuaries Meeting

OCTOBER 2022

October 10-14, 2022 Albuquerque, NM	Southwest Climate Adaptation Science Center: Southwest Adaptation Forum
October 24-26, 2022 Traverse City, MI	International Association for Great Lakes Research: State of Lake Michigan Conference
October 25-27, 2022 Green Bay, WI	Midwest Invasive Plant Network: Upper Midwest Invasive Species Conference

NOVEMBER 2022

November 7-10, 2022 Ft. Myers, FL	North American Invasive Species Management Association 30th Annual Conference
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Photo by Sharon Weaver, NAWM

TRAINING/WORKSHOPS 2022

FEBRUARY 2022

February 21-24, 2022 Raleigh, NC	Swamp School Course: Standard Wetland Delineation Training (Classroom/Field)
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MARCH 2022

March 7, 2022 Online – 16 weeks	Swamp School Course: Certified Wetland Hydrologist Also offered in June, September, and December 2022
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March 7, 2022 Online – 16 weeks	Swamp School Course: Certified Wetland Botanist Also offered in May, July, and September
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March 21-22, 2022 Online	EUCI Course: Endangered Species Act, Wetlands, and Stormwater Regulatory Compliance for Energy & Utilities
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March 25, 2022 Virtual	Massachusetts Association of Conservation Commissions (MACC) Training Program: Riparian Communities
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APRIL 2022

April 25-28, 2022 Aliquippa, PA	Swamp School Course: Standard Wetland Delineation Training (Classroom/Field)
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April 25-28, 2022 Online – 14 Weeks	Swamp School Course: Stream Restoration Level V – Stream Monitoring and Departure Assessment
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MAY 2022

May 3-4, 2022 8:30 a.m.-3:30 p.m. EDT Online	Rutgers Office of Continuing Professional Education Course: Vegetation Identification for Wetland Delineation: North
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May 7-8, 2022 Troutdale, VA	Blue Ridge Discovery Center: Vernal Pond Restoration Workshop
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May 9, 11, 13, and 16, 2022 10:00 a.m.-4:00 p.m. EDT Online	Rutgers Office of Continuing Professional Education Course: Wetland Construction: Principles, Planning, and Design
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May 11-12, 2022 8:15 a.m.-12:15 p.m. EDT Online	Rutgers Office of Continuing Professional Education Course: Restoration Ecology
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May 16-20, 2022 St. Michaels, MD	Environmental Concern Course: Basic Wetland Delineation
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JUNE 2022

June 1-2, 2022 8:30 a.m.-4:00 p.m. EDT Online	Rutgers Office of Continuing Professional Education Course: Hydric Soils
June 13-15, 2022 St. Michaels, MD	Environmental Concern Course: Wetland Plant ID
June 16, 2022 Virtual June 20, 2022 Field Trip	Rutgers Office of Continuing Professional Education Course: Methodology for Delineating Wetlands

SEPTEMBER 2022

September 12-16, 2022 St. Michaels, MD	Environmental Concern Course: Basic Wetland Delineation
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OCTOBER 2022

October 10-12 St. Michaels, MD	Environmental Concern Course: Evaluating Hydric Soils in the Field
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DECEMBER 2022

December 5-7, 2022 St. Michaels, MD	Environmental Concern Course: Winter Woody Plant ID
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Photo by Marla Stelk, NAWM

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- ◆ Celebrating Women and Girls in Science Day
- ◆ STEM Women of DNREC

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- ◆ Just as EPA Was Fixing Wetlands Rules, Along Come the Sacketts . . . Again
- ◆ Inside Stephen Brever's Clean Water Act legacy

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- ◆ FL: US announces historic \$1.1 billion investment for Everglades rehabilitation
- ◆ GA: 11th Circuit asked to revive case against developer that filled in Georgia wetland
- ◆ Chippewa Tribe: How Giving Legal Rights to an Indigenous Food Could Stop a Pipeline
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- ◆ TX: Urban Golf Course-Turned-Wetland Cuts Storm and Flood Impacts
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- ◆ Underwater 'breathing' plants could be key to stress-resistant crops
- ◆ Coastal wetlands can become too salty for some resident plants
- ◆ Climate Change or Habitat Loss? New Study Weighs Which Influences Birds More

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- ◆ Wetlands, Flooding, and the Clean Water Act

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- ◆ UW-Madison: Researchers create online game that lets players reimagine land use based on real science
- ◆ Rice Farming to Restore Soil
- ◆ Removing Sediment to Restore Wetlands Clears Revenue Paths
- ◆ Vermont flood costs could exceed \$5.2 billion

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October 2022

- ◆ Environmental Concern Course: Evaluating Hydric Soils in the Field

December 2022

- ◆ Environmental Concern Course: Winter Woody Plant ID



Photo by Marla Stelk, NAWM



The National Association of Wetland Managers' *Wetland News Digest* (WND) is a monthly compilation of wetland-related stories and announcements submitted by readers and gleaned from listservs, press releases and news sources from throughout the United States. WND chronicles the legislative, national, state and tribal news relevant to wetland science, policy, practice and law. It also links to new publications, tools and resources available to wetland professionals as well as events and training opportunities for those working in water resources and related fields. *Wetland News Digest* (formerly "*Wetland Breaking News*") has been published for over fifteen years and NAWM has been a nationally recognized resource for information on wetland science and policy since 1983.

The items presented in *Wetland News Digest* do not necessarily reflect the views of the editor or of the National Association of Wetland Managers. Send your news items, comments, corrections, or suggestions to news@aswm.org.

"WETLAND NEWS DIGEST" Compiled and edited by Audra Martin, Program Support Specialist; Laura Burchill and Sharon Weaver, Assistant Editors, National Association of Wetland Managers, 500 Washington Avenue, Suite 201; Portland, ME 04103; Telephone: 207-892-3399; Fax: 207-894-7992.

Send your news items, events, comments, corrections, or suggestions to news@aswm.org



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