



AQUATIC INVASIVE SPECIES NEWS

01/31/22

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SPOTLIGHT:

[The prince, the mayor, and the U.S. fish that ate Japan](#)



An innocent gift from Chicago to Prince Akihito in 1960 caused a decades-long ecological crisis that Japanese scientists are now close to solving.

When Crown Prince Akihito visited Chicago on October 3, 1960, his sole request was to visit Shedd Aquarium. Then Mayor Richard J. Daley, an avid angler, presented the prince with a gift that he scooped with a net from one of the tanks himself: 18 bluegills, the official Illinois state fish.

The 26-year-old future emperor was already a passionate ichthyologist, and he planned to stock the exotic fish in the moat surrounding his palace, according to accounts in the Chicago Tribune at the time.

At windy Chicago O'Hare International Airport the next day with Princess Michiko, Akihito bid the city farewell, carrying a gift that he couldn't have imagined would cause a decades-long ecological crisis in his homeland.

In the intervening six decades, the bluegills became an invasive, species-destroying nightmare, crowding Japanese freshwater lakes and rivers and destroying native fish biodiversity, says Kenji Saitoh, a researcher at the country's Fisheries Resources and Education Agency.

Fortunately, science has marched on in 60 years. Now, Japanese geneticists are experimenting with the gene editing wizardry of CRISPR to sterilize the invasive bluegills. If the initiative succeeds, wildlife managers could use the same technique to rid the U.S. of damaging aquatic invasives such as the Asian carp.

[\[continue reading\]](#)

PUBLIC COMMENT

[BOEM Seeks Public Comment on Draft Environmental Analysis of Northern California Wind Energy Area](#)

As part of the Biden-Harris administration's goal of permitting 30 gigawatts (GW) of offshore wind energy by 2030, the Bureau of Ocean Energy Management (BOEM) today announced the release of its draft Environmental Assessment (EA) on the potential impacts from future commercial leasing and related site characterization and assessment activities within the Humboldt Wind Energy Area (WEA). The Humboldt WEA is approximately 206 square miles that, if developed, could bring up to 1.6 GW of clean energy to the grid, enough to power approximately 560,000 homes.

The draft EA considers potential environmental impacts and socioeconomic effects from issuing offshore wind energy leases and related site characterization and assessment activities within the Humboldt WEA. Site characterization activities include geophysical, geotechnical, archaeological, and biological surveys needed to develop specific project proposals on those leases. Site assessment activities could include installation and operation of meteorological buoys in support of leases that may be issued.

“BOEM is requesting public comments on the adequacy of our environmental analysis and of the measures designed to avoid or reduce potential environmental impacts,” said BOEM's Pacific Office regional director Doug Boren. “BOEM will consider such comments before determining whether to issue a finding of no significant impact or to conduct additional analyses under the National Environmental Policy Act.”

Before approving the construction of any offshore wind energy facility on a potential future lease in the Humboldt WEA, BOEM will develop an Environmental Impact Statement to analyze the specific environmental consequences of constructing and operating such a facility, in consultation with Tribes and appropriate federal, state, and local agencies, and with participation by stakeholders and the public.

BOEM is also requesting public comments related to potential impacts to historic properties from commercial leasing and site characterization and assessment activities in the Humboldt WEA. This is part of BOEM's National Historic Preservation Act Section 106 Programmatic Agreement with the State of California covering wind energy development offshore that state.

Today's announcement initiates a 30-day public review and comment period on the draft EA, which will end at 11:59 p.m. (Eastern) on Feb. 10, 2022. To facilitate public input, BOEM will host two virtual meetings. The first meeting will be held on January 25, 2022, from 9 a.m. – 12 p.m. The second meeting will be held on Jan. 26, 2022, from 5 p.m. – 8 p.m. Meeting times listed are in Pacific Time.

The draft EA, instructions on how to submit comments and information on the public meetings can be found online at www.boem.gov/HumboldtEA

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[Interior Department Seeks Nominations for Committee to Replace Derogatory Names](#)

The Department of the Interior announced today that it is seeking nominations for members of the new Advisory Committee on Reconciliation in Place Names. The committee will identify geographic names and federal land unit names that are considered derogatory and solicit proposals on replacement names.

On November 19, 2021, Secretary Deb Haaland directed the National Park Service to form the committee as part of a broad effort to review and replace derogatory names of the nation's geographic features. Secretary Haaland also declared "squaw" to be a derogatory term and instructed the Board on Geographic Names – the federal body tasked with naming geographic places – to implement procedures to remove the term from federal usage.

"Too many of our nation's lands and waters continue to perpetuate a legacy of oppression. This important advisory committee will be integral to our efforts to identify places with derogatory terms whose expiration dates are long overdue," said Secretary Haaland. "I look forward to broad engagement from Tribes, civil rights scholars and academics, stakeholders, and the general public as we advance our goals of equity and inclusion."

"The establishment of this committee is a momentous step in making our nation's public lands and waters more welcoming and open to people of all backgrounds," said National Park Service Director Chuck Sams. "These committee members, who will reflect the diversity of America, will serve their country in an important way."

The Committee will consist of no more than 17 discretionary members to be appointed by the Secretary, including:

- At least four members of an Indian Tribe;
- At least one representative of a Tribal organization;
- At least one representative of a Native Hawaiian organization;

At least four people with backgrounds in civil rights or race relations;
At least four people with expertise in anthropology, cultural studies, geography, or history; and
At least three members of the general public.

Nominations must include a resume providing an adequate description of the nominee's qualifications, including information that would enable the Department to make an informed decision regarding meeting the membership requirements of the committee and contact information. More details on the committee and how to apply are available in the [Federal Register](#). Nominations for the committee must be submitted to Joshua Winchell, Office of Policy, National Park Service, at reconciliation_committee@nps.gov.

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[Request for Nominations published in today's Federal Register for the newly re-established Invasive Species Advisory Committee \(ISAC\)](#)

The Department of the Interior announced today that it will appoint new members to the Invasive Species Advisory Committee (Committee), which provides information and expert advice to inform federal government activities related to invasive species. The Committee's efforts to address the threat of invasive species will help advance the conservation goals of the America the Beautiful initiative, while also bolstering climate resilience for communities across the country.

Chartered under the Federal Advisory Committee Act, the Committee provides advice to support the National Invasive Species Council (NISC), an interagency body that provides the vision and national leadership to coordinate, sustain and expand federal efforts to safeguard the interests of the United States through the prevention, eradication, and control of invasive species, and through the restoration of ecosystems and other assets impacted by invasive species.

After having been active for nearly two decades, the Trump administration defunded and disbanded the Committee in 2019. President Biden reestablished the Committee on September 30, 2021.

...

The Committee will consist of up to 20 members who will have a broad range of expertise and stakeholder interests that includes non-federal government agencies (e.g., state, territorial, tribal, local); academia, research institutions, and scientific societies; the private sector and industry/trade associations; conservation and land management organizations; landowners, farmers, ranchers, foresters, and other resource users; public health specialists; education and outreach specialists; regional organizations; and citizen scientists, recreationists, and other public interest groups.

Ex officio members from several national organizations and associations engaged in addressing invasive species and their impacts may also be appointed.

Information on how to submit formal nominations for the ISAC is available in [the Federal Register notice](#).

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NEW SPECIES SIGHTINGS

Want to get more new species alerts?

USGS NAS: <https://nas.er.usgs.gov/AlertSystem/default.aspx>

IMAP INVASIVES: <https://www.imapinvasives.org>

DREISSENIDS

OTHER AIS

WATCH LIST

[Canada] DFO wants people to report sightings of European Green Crabs in the Salish Sea. Sightings can be reported to AISPACIFIC@dfo-mpo.gc.ca

[Canada] [What the shell is out there? Columbia Shuswap Invasive Species Society wants help documenting what kinds of shells are out there.](#)

DREISSENID MUSSELS

[Pierre prepares water system for invasive mussel \(1/24/22\)](#)

The city of Pierre is constructing a new water system that will draw from the Missouri River, and the \$37 million project includes precautions against invasive zebra mussels. Delvin DeBoer, a special project engineer with AE2S in Sioux Falls, is helping the city with plans to prevent the mussels from attaching to the infrastructure.

"There's actually two parts then to protecting the system against zebra mussels," DeBoer said. "One is to provide a screen that the zebra mussels won't grow on, and the second is to provide this liquid substance that will prevent their growth inside the pipes."

[Plankton samples show invasive mussels kept out of BC waters for another year \(1/18/22\)](#)

The ministry reported 75 bodies of water were monitored throughout the season by various organizations, collecting 900 plankton samples, all of which showed no evidence of invasive mussels.

[Zebra mussels could point the way toward non-stick surfaces and medical adhesives \(1/13/22\)](#)

A water tank full of coin-sized invertebrates may not be the first thing you'd expect to see in a materials science and engineering research lab. But Professor Eli Sone (BME, MSE) and his team have been studying both zebra and quagga mussels for years, in the hope that they can offer

insights into a diverse range of challenges. “There’s a materials science angle, but there’s also a biomedical angle,” says Sone. “On the one hand, these mussels are a problem in terms of what we call biofouling, so we’re looking to design materials or coatings to keep them from clogging water intake pipes, for example.” “But on the other hand, if we understand why they stick so well, that could help us design things like non-toxic biodegradable glues, which could offer an alternative to internal stitches for surgery or localized drug delivery applications.”

BOAT INSPECTION/DECON/TECH NEWS

[New program aims to prevent spread of aquatic invasive species by transported watercraft \(1/11/22\)](#)

The Pacific States Marine Fisheries Commission has initiated a new program to prevent delays during the transport of watercraft destined for the states of Washington, Oregon, Idaho and Montana. The program, “Call Before You Haul,” provides a toll-free phone number boat transporters can call prior to transporting watercraft from outside the Pacific Northwest to one of the aforementioned states. The program is currently being piloted in 10 states and is intended to be expanded to all states in 2022.

BALLAST WATER/BIOFOULING

[Damen signs up Erma First to supply world’s smallest ballast water treatment system \(1/20/22\)](#)

Damen has signed its first contract with ballast water treatment systems producer Erma First. Greek company Erma First will be supplying its oneTANK, which is the world’s smallest ballast water treatment system. oneTANK uses chemical injection methods to clean ships’ ballast water and therefore represents an important expansion of Damen’s ballast water treatment system portfolio. The contract also marks a key milestone in the cooperation between Damen and the Greek maritime supply sector.

[Ballastwater Equipment Manufacturers’ Association recognized by the IMO as an approved voice of the industry \(1/18/22\)](#)

The Ballastwater Equipment Manufacturers’ Association (BEMA) has announced that they received news from the IMO that they have been granted Non-Governmental Organization (NGO) Consultative Status. This designation allows BEMA to attend IMO meetings and contribute to the work of the IMO by submitting technical input and providing specialized operational and technical expertise on ballast water management systems (BWMS).

[Antarctica: Invasive species 'hitchhiking' on ships \(1/10/22\)](#)

Species from around the world that are "hitching a lift" on ships threaten Antarctica's pristine marine ecosystem. That is the conclusion of [a study](#) tracking research, fishing and tourist vessels that routinely visit the protected, otherwise isolated region. It revealed that ships from 1,500 ports around the globe visit Antarctica.

"These ships travel all around the world," explained lead researcher Arlie McCarthy from the University of Cambridge. "It means that almost anywhere could be a potential source for invasive species." Those non-native species, she explained, "can completely change an ecosystem". "They can create entirely new habitats that would make it harder for those amazing Antarctic animals to find their own place to live."

MARINE

[Washington takes emergency action to stop thousands of invasive green crabs \(1/20/22\)](#)

Gov. Jay Inslee issued an [emergency order](#) to address the explosion of the European green crab population within the Lummi Nation's Sea Pond and outer coast areas, Wednesday, Jan. 19. The emergency order creates three primary actions to eradicate the invasive species and prevent permanent establishment, which would particularly harm endangered species, impact resources that are part of the cultural identity of Washington Tribes and Native peoples, and affect small businesses. Under the order, the Department of Fish and Wildlife will implement emergency measures. The Department of Ecology, the Department of Natural Resources and the State Parks and Recreation Commission will identify European green crab management as a high priority on their respective state-owned aquatic lands and facilitate implementing emergency measures. Finally, the order urges the Legislature to provide additional emergency funding as requested by the Department of Fish and Wildlife as soon as possible.

[Are European Green Crabs here to stay? \(1/19/22\)](#)

In recent years, European green crabs have become a species of increasing concern on the coast. They are a globally invasive species that prey on native species, including shellfish and smaller crabs. Furthermore, they can tear up valuable eelgrass meadows and deprive native species of food and shelter. Green crabs arrived in Oregon estuaries during the 1990s but remained rare until the 2015-2016 El Niño. They are now abundant enough to be observed by divers and caught in sports traps.

[\[Washington\] Sequim's invasive green crab count low in 2021 \(1/13/22\)](#)

As local European green crab totals stayed relatively low in 2021, the Sequim-Dungeness area remains centered between growing infestations from Neah Bay to Whatcom County. Sequim's population of the invasive species was a fraction of those found in the Lummi sea pond west of Bellingham where more than 70,000 green crabs were captured. In late November, the Lummi Indian Business Council declared a disaster with Washington Sea Grant's Crab Team reporting it to be Washington's largest infestation along inland shorelines. In comparison, resource managers with the Washington Maritime National Wildlife Refuge in Dungeness and Jamestown S'Klallam Tribe at Sequim Bay reported 24 combined captures (eight and 16, respectively) last year.

[Out of the blue: New nuisance neontative may invade the Gulf of Maine](#)

Johnson, David S. "The Savory Swimmer Swims North: A Northern Range Extension of the Blue Crab *Callinectes sapidus*?" *Journal of Crustacean Biology* 30, no. 1 (2015), 105-110.

Campbell, M. et al. 2022. [Rapid spatial expansion and population increase of invasive lionfish \(*Pterois spp.*\) observed on natural habitats in the northern Gulf of Mexico.](#) *Biological Invasions.* (2022) 24:93–105

AQUACULTURE

[\[Oregon\] USDA awards grant to keep local seafood local \(1/24/22\)](#)

The United States Department of Agriculture (USDA) has awarded The Oregon Coast Visitors Association \$735,200 for a grant titled Capturing Value by Keeping Local Seafood Local. This effort will expand the regional distribution network of smaller seafood and aquaculture producers on the Oregon Coast whose operating budgets are under \$1 million annually.

[Seed money: USDA commits \\$500,000 for Alaska kelp production \(1/20/22\)](#)

The U.S. Department of Agriculture announced a \$500,000 grant for Alaska’s Southeast Conference to boost mariculture and the blue economy in the state. The Juneau-based Southeast Conference — which was created in 1958 to incubate what would become the Alaska Marine Highway System — is now charged with creating “a blueprint for a mariculture (seaweed and other sea products) processing facility on Prince of Wales Island,” according to the USDA announcement.

[BC shellfish growers adopt innovative traceability system \(1/14/22\)](#)

The British Columbia Shellfish Growers Association (BCSGA) has partnered with BlueTrace to improve the traceability of the province’s shellfish businesses. The deal means that the BCSGA will subsidise 95 percent of the cost for any of its members to adopt the Maine-based company’s high tech traceability system. “The shellfish growers of British Columbia raise some of the best oysters, clams, mussels, scallops and geoducks in the world. We are excited to help these innovative farmers continue to develop a safe, and prosperous industry,” said Dr Chip Terry, CEO of BlueTrace, in a press release.

[Washington Supreme Court OKs Cooke Aquaculture steelhead farming \(1/13/22\)](#)

The Washington state Supreme Court has unanimously upheld permits that will allow Cooke Aquaculture Pacific to farm steelhead trout in net pens in Washington waters. The Seattle Times reports the decision clears the permit hurdle for the international aquaculture giant to change its operations from farming Atlantic salmon to steelhead. That’s good news for Cooke and the Jamestown S’Klallam tribe, which in 2019 announced a joint venture with Cooke Aquaculture Pacific to rear native steelhead trout. Wild Fish Conservancy director Kurt Beardslee said the fight will continue this year when the state Department of Natural Resources begins a more wide-ranging review in determining whether to renew state leases for the tidelands over which the pens are placed.

[Is 2022 the year US offshore aquaculture finally gains traction? \(1/11/22\)](#)

For several years, efforts to establish offshore aquaculture in US waters has been stalled in Congress. But Sarah Brenholt, the new campaign manager for the offshore advocacy effort known as Stronger America Through Seafood (SATS) believes there is ample opportunity to move the needle at the federal level this year.

FISH

[Hundreds of invasive aquarium fish removed from San Marcos River \(1/18/22\)](#)

A total of 406 invasive suckermouth armored catfish were removed from the San Marcos River in recent weeks. Texas Rivers and Streams, a division of Texas Parks and Wildlife, posted a photo on Facebook Thursday stating that the fish were removed during a dewatering event at Rio Vista Park. The fish “have been introduced to numerous water bodies in Texas through aquarium dumping — Never Dump Your Tank!” officials said.

[In fight against invasive carp, Missouri scientists explore new frontier: Track the babies \(1/15/22\)](#)

Now scientists at the U.S. Geological Survey and the University of Missouri have identified a potential breakthrough: They are studying the complex way carp eggs move in rivers, in hopes they can kill them while still young. “We’ve been developing better ways to remove large numbers of adult carp,” said Duane Chapman, supervisory fish biologist with the USGS. “But you need to think about the other end as well.”

[University of Montana Study: Climate Change, Invasive Species Drive Native Trout Declines \(01/12/22\)](#)

In a new study published in Science Advances, University of Montana researchers found that climate change drives native trout declines by reducing stream habitat and facilitating the expansion of invasive trout species. "This study had three main questions: How have the distributions of native and invasive trout shifted in Montana over the last 30 years, how will they change in the future, and what factors are causing those changes?" said Donovan Bell, the study's lead author and a doctoral candidate in UM's Wildlife Biology Program.

AQUATIC PLANTS

[Herbicides approved for one-time use at Tahoe Keys to treat invasive plants \(1/26/22\)](#)

This spring, herbicides will be used for the first time in Lake Tahoe's history to treat invasive aquatic plants plaguing the Tahoe Keys. Following extensive public comment, the Tahoe Regional Planning Agency Board unanimously voted in favor of a one-time use of herbicides during the board’s Wednesday meeting. TRPA and the Lahontan Regional Water Quality Control Board are the governing agencies for the iconic lake. The Lahontan board earlier this month voted unanimously in favor of using herbicides in an experimental treatment plan to address the growing invasive plant problem at the lake, primarily at the Tahoe Keys.

Related: [League to Save Lake Tahoe supports Tahoe Keys Control Methods Test to tackle Invasive Species \(1/14/22\)](#)

[Editorial: Invasive species containment works \(1/12/22\)](#)

So far, Wyoming has done a fairly good job of keeping the majority of aquatic invasive species from the state's waters. Curly pondweed is one of the rare exceptions that has been found in Wyoming. Unfortunately, the threat of invasive species seems to be increasing rapidly.

FRESHWATER

[Suspicious-looking snails spur 'sinking feeling' \(1/16/22\)](#)

While Burke's colleague waded into the cold, fast current to conduct routine stream monitoring, Burke was nearby on the bank. "And I just looked into the water and noticed that some of the woody debris in the stream was — not covered — but there were a lot of small snails ... and I just got this sinking feeling." Just a month prior, Burke had attended a virtual training on invasive New Zealand mudsnails. Burke thought the training was a great idea, but, she said, "I never thought that I would need to use it." ... Burke's find was the first discovery of New Zealand mudsnails in the Elk River Chain of Lakes, Michigan.

[Flight plan for the future: floatplane pilots and researchers team up to predict invasive species dispersal in Alaska](#)

Schwoerer, T., Dial, R. J., Little, J. M., Martin, A. E., Morton, J. M., Schmidt, J. I., & Ward, E. J. (2022). Flight plan for the future: floatplane pilots and researchers team up to predict invasive species dispersal in Alaska. *Biological Invasions*, 1-17.

CLIMATE CHANGE

[Nearly half of countries' shared fish stocks are on the move due to climate change, prompting dispute concern \(1/18/22\)](#)

Climate change will force 45 per cent of the fish stocks that cross through two or more exclusive economic zones to shift significantly from their historical habitats and migration paths by 2100, a challenge that may lead to international conflict, according to a new UBC study.

[Researchers find concerns for animals tied to same habitats \(1/11/22\)](#)

Some wildlife are stuck in their ways. Like humans, wild animals often return to the same places to eat, walk on the same paths to travel and use the same places to raise their young. A team led by researchers at the University of Washington and the University of Wyoming has reviewed the scientific literature and found that, while this "consistent" behavior may be beneficial when environmental conditions don't change very fast, those benefits may not be realized in the ever-changing world dominated by humans. [The research was published Jan. 11 in *Frontiers in Ecology and the Environment*.](#)

[The invasion of Antarctica: Non-native species threaten the world's last wilderness \(1/7/22\)](#)

Antarctica is the world's most isolated, extreme, and pristine continent. Climate change and human activity have facilitated the establishment of 11 non-native invertebrates in Antarctica, threatening vulnerable indigenous species not adapted to competition. Antarctic microbial communities are also vulnerable to human presence, with each person visiting the continent bringing millions of novel microbes along. [also available in audio format]

[Ship traffic connects Antarctica's fragile coasts to worldwide ecosystems](#)

Hughes, K. A., Pescott, O. L., Peyton, J., Adriaens, T., Cottier-Cook, E. J., Key, G., ... & Roy, H. E. (2020). Invasive non-native species likely to threaten biodiversity and ecosystems in the Antarctic Peninsula region. *Global Change Biology*, 26(4), 2702-2716.

OTHER

[All loose monkeys accounted for following Pennsylvania highway crash \(1/22/22\)](#)

The vehicle carrying an estimated 100 monkeys was involved in a crash and three monkeys escaped, officials said. The crash occurred in Montour County's Valley Township when a pickup towing a trailer with the primates turned in front of an oncoming truck and was hit. The trailer separated from the truck and three monkeys escaped, according to the crash report.

[Weed Salads And Lionfish Sushi: Could An Invasivore Diet Help Wildlife? \(1/14/22\)](#)

Much of conservation centers around helping things we have too few of, but what's to be done for the species of which there are far too many? Invasive species have a nasty habit of proliferating beyond belief as they dominate environments in which they might not have any natural predators. As they multiply, the space for native species diminishes, pushing animals to extinction and destabilizing ecosystems that may have endured for thousands of years. Everything from hunting to novelty lingerie and introducing more invasive species (to catastrophic effect) has been employed as a means to getting rid of alien species, but is there a more economical way to support ecological systems? The "invasivore diet" was first suggested by conservation biologist Joe Roman in the early 2000s, says *Popular Science*, and is an approach that aims to encourage humans to eat their way out of problems they created.

[\[Podcast\] The Debate About Pablo Escobar's Hippos \(1/13/22\)](#)

Pablo Escobar had a private zoo at his estate in Colombia, with animals like zebras, giraffes, flamingoes - and four hippopotamuses. After Escobar was killed in 1993, most of the animals were relocated except for the so-called "cocaine hippos." Authorities thought they would die but they did not. Now, about a hundred roam near the estate. Conservationists are trying to control their population because they worry about the people and the environment. But some locals like the hippos and a few researchers say the animals should be left alone and are filling an ecological void. The controversy interestingly reflects growing debate in ecology about what an invasive species actually is.

[\[Wisconsin\] Exotic animal collection event planned at Beaver Creek \(1/9/22\)](#)

Powerful alligators, 10-foot pythons and iguanas as long as an adult man. These are just a few of the exotic creatures John Moyles has encountered over the past two years while going about his work... The event will accept fish, invertebrates, reptiles, pet birds, small mammals and plants — no questions asked. It will not accept cats, dogs or barnyard animals. The Chippewa Valley event also will include a presentation by Lia Landowski, Beaver Creek’s aquatic invasive species coordinator, on aquatic invasive species and problematic local examples of exotic animal and plant releases.

[Maui invasive species experts try to track down tiny bird that can do a lot of damage \(1/8/22\)](#)

Maui invasive species experts are trying to track down a little bird that can do a lot of damage. “We’ve been seeing it around Kahului, along Kaahumanu, down towards Spreckelsville,” said Elizabeth Speith, a pest report facilitator for the Hawaii Invasive Species Council. “We’re asking everybody to keep an eye out and look for anything that looks like a black cardinal.” Native to India and Pakistan, red-vented bulbuls look similar to red-crested cardinals.

OUTREACH AND EDUCATION

[Need a New Year’s resolution? Here’s 12 ways to protect Maui from invasive species all year long \(1/8/22\)](#)

At the start of a new year, many of us are taking time to reflect and set goals. Consider adding to your list a resolution to do small things each month to protect our environment. Here are a few simple actions you can take that will help make a difference on the invasive species front throughout the year.

[Minnesota Aquatic Invasive Species Research Center](#)

MAISRC's 2021 Research Report: Over the last year, MAISRC research teams have worked tirelessly in the field, lab, and at their computers to generate and analyze data that is informing evidence-based decisions from the end of your dock to the State Capitol. The incremental steps are making a difference, leading to big wins, and eventually to real-world solutions to aquatic invasive species problems. This year, MAISRC is sharing past year's research highlights in the form of a story map—enjoy an interactive experience, watch project videos, click straight to project pages, and see exactly where research is happening on the map. Explore all the MAISRC research highlights from 2021, click [HERE](#) to view the report.

[North American Invasive Species Management](#)

2021 Year In Review: This is the year the North American Invasive Species Management Association (NAISMA) set its course for the coming decade. The association’s board of directors developed a strategic plan to support the individuals and organizations protecting the continent’s lands and waters from invasive species. NASMA continued to expand their reach by improving and adding to already excellent virtual programming. At the same time, NAISMA broadened our partnerships, alliances, and fundraising strategies. Finally, we designed better ways to serve our membership, which has doubled in two years. Read more [HERE](#).

JOBS/GRANTS

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The Wyoming Game and Fish will be hiring up to 50 AIS Technicians across the state, please forward the attached announcement to anyone who may be interested. Below is the link to where folks can apply.

<https://www.governmentjobs.com/careers/wyoming/jobs/3394095/attp99-2022-02673-aquatic-invasive-species-ais-technician-up-to-50-positions?keywords=aquatic&pagetype=jobOpportunitiesJobs>

[The Pacific Coast Shellfish Growers Association \(PCSGA\)](#) is on the rebound after a couple tough years navigating COVID. They are looking forward to restoring services for their members and regaining staff back to pre-pandemic numbers.

Visit their [website](#), or click on the following links, to view current job openings. Detailed information is listed in each individual post.

[Executive Director Job Description, January 2022](#)

[Stewardship Officer Job Description, January 2022](#)

[Member Services Coordinator Job Description, January 2022](#)

If you have questions, please contact Connie Smith, Assistant Director, Pacific Coast Shellfish Growers Association, via ConnieSmith@pcsga.org.

[Missouri Department of Conservation](#)

Aquatic Systems Manager: Provide leadership to the Statewide Resource Management Branch and work in conjunction with Regional Resource Management, Community and Private Lands and Science staff, to provide leadership, primary oversight, training, technical expertise, and management recommendations for fisheries and aquatic systems in Missouri. To learn more about the job, feel free to contact the hiring supervisor- Bruce M Drecktrah at

Bruce.Drecktrah@mdc.mo.gov or at 573 5224115x3599. **Closing Date: February 7, 2022.**

Full announcement: <https://jobs.mdc.mo.gov/job/Jefferson-City-Aquatic-Systems-Manager-MO-65109/831450500/>

[Washington Community Outreach and Environmental Education Specialist 3 \(Project\)](#)

Salary \$3,887.00 - \$5,102.00 Monthly

Location Thurston County – Olympia, WA

Job Type Project (limited duration)

Department Recreation and Conservation Office

Job Number

2022-RCO-001

Closing

2/9/2022 11:59 PM Pacific

This position supports the Washington Invasive Species Council’s mission as the primary staff person responsible for outreach and education. You will be the invasive species outreach education expert and you will support cross organizational projects and programs that implement the council’s statewide strategic plan (Download PDF reader) to prevent and stop invasive species. You will work collaboratively with the council's Executive Coordinator, council leadership and members, other partners, and the general public to achieve the goals and objectives of the council.

[Association of Fish and Wildlife Agencies](#)

[Adaptation Program Manager; Position Location: Washington, D. C.](#)

The Adaptation Program Manager manages and coordinates the Association's climate adaptation programs; ensures climate adaptation program implementation and activities are carried out in line with the organization's objectives and goals. Plans and develops methods and procedures for implementing adaptation program. Provides quality control for the climate adaptation program through monitoring costs, committee members, activities, and final products or services, and modifies them as necessary. Conveys information, including explanation of program, direction, problems, and potential solutions, to management as well as to AFWA members and partners serving as a subject matter expert and resource. Oversees training and management of members and partners. Reviews reports and records of activities to ensure progress is being accomplished toward specified program objectives, and modifies or changes methodology as required to redirect activities and attain objectives. Prepares program reports for superiors. Controls expenditures in accordance with budget allocations.

Full announcement: <https://wfscjobs.tamu.edu/jobs/climate-adaptation-program-manager-washington-dc/>

Deadline: February 10, 2022 or until filled. Please email CV and cover letter (subject line AFWA Adaptation Program Manager) to mhumpert@fishwildlife.org.

[ATAW99-2022-02617-Aquatic Invasive Species \(AIS\) Specialist-Evanston WY](#)

The Wyoming Game and Fish Department is seeking an Aquatic Invasive Species (AIS) Specialist based out of Evanston, WY. This 12-month position is responsible for implementing the state's aquatic invasive species program. The successful applicant will take primary responsibility for hiring and supervision of 12 seasonal AIS inspectors and oversight of watercraft inspection efforts at the Evanston Port of Entry check station. Additional duties will include public outreach and AIS monitoring. **Closing Date: 02/15/22 11:59 PM**

[Wildlife Technicians. UW-Madison Sierra Nevada, California, United States](#)

Up to ten field technicians are needed to undertake field work for bioacoustics research projects throughout National Forests in the Sierra Nevada region in California. This monitoring program uses autonomous recording units (ARUs) to survey for avifauna and provide information for several research and management programs studying forest owls and songbirds.

This multi-year research project focuses largely on the distribution of California spotted owls and the invasive barred owl, in order to provide information vital to the successful management of both species at broad spatial scales in the Sierra Nevada. Additional research is being conducted on the distributions of forest owls and songbirds across the range.

Start and end dates for this position are dependent on snowpack, but the season will likely run mid-April to late-July. Target start date of April 18, with the end date in mid-late July. Pay is \$16-\$18/hour depending on experience, plus per diem (up to \$200/week) when fieldwork requires overnight camping.

[Now accepting applications: 2023 John A. Knauss Marine Policy Fellowship Program](#)

The Knauss Fellowship provides a unique educational experience to graduate students who have an interest in ocean, coastal, and Great Lakes resources and in the national policy decisions affecting those resources. The program, which is sponsored by the NOAA's National Sea Grant College Program, matches highly qualified graduate students with hosts in the legislative and executive branches of government located in the Washington, D.C. area for a one-year paid fellowship. Past fellows have developed successful careers in a variety of sectors, including government, academia, consulting, private companies, and nonprofit.

West Virginia University - Doctoral positions

The Division of Forestry and Natural Resources through Dr. Murry's and Dr. Arantes's labs at West Virginia University is recruiting two PhD students to begin in Spring/Summer 2022 to study factors driving and limiting the expansion of Invasive Carps in large rivers in the US. The students will identify and model hydrologic dynamics and watershed characteristics influencing year class strength, carp populations, and ecosystems processes. The work will entail some field work, but primarily the use of a combination of quantitative techniques. The student will also work closely with state and federal agencies to assemble and organize datasets and to interpret results in a management context as well as integrate results into actionable changes to existing mediation efforts. Funding will be supplied through a research assistantship with summer support for at least three years. Review of applications will begin on 1/30/2022 and will continue until the position is filled. Interested students are encouraged to email the following as a single pdf document directly to Brent Murry and Carol Arantes at brent.murry@mail.wvu.edu and caroline.arantes@mail.wvu.edu (please, include both PIs in your email): 1) a brief cover letter describing their professional background, relevant research experience and interests, career goals, and reasons for seeking a PhD degree, 2) a current curriculum vitae/resume, 3) names and contact information for three professional references, and 4) an unofficial copy of transcripts and GRE scores. Do not submit materials to the WVU Graduate School at this time.

[The South Florida Water Management District Governing Board](#) is taking aggressive action to protect the Everglades and eliminate invasive pythons from across the landscape. Starting in March 2017, the Python Elimination Program incentivizes a limited number of public-spirited individuals to humanely euthanize these destructive snakes which have become an invasive apex predator in the Everglades. The program provides access to python removal agents on designated lands in Monroe, Miami-Dade, Broward, Collier, Hendry, Lee, and Palm Beach counties. The program is now accepting applications for new python removal agents. All submitted applications will be kept on file and reviewed whenever positions become available. More information on program eligibility and requirements is available in the "Program Details" and "Frequently Asked Questions" sections. Thank you for your interest.

[Python removal agents will be paid:](#)

An hourly rate (\$10.00 per hour or \$15.00 per hour depending on the area) for up to ten (10) hours each day while actively searching for pythons on designated lands. An additional incentive payment of \$50.00 for each python measuring up to four (4) feet plus an extra \$25.00 for each foot measured above four (4) feet. See example below: An additional \$200.00 for each verified active nest.

[NOAA Inclusive Fisheries Internship Program Seeks Undergraduate Applicants for 2022 Summer Program](#)

IN FISH! is an inclusive internship program sponsored by NOAA Fisheries and partners in academia and non-governmental research institutions.

Our IN FISH! interns take a two-credit course, work with a mentor on a science or management project, and participate in career-building workshops and symposia. At the end of the program, students present their project work in a symposium open to the public. Projects are tailored to meet the student's interests and career goals.

The 2022 program runs from June 6 through August 12. **Application deadline is 11:59 p.m. EST February 18, 2022.** Late applications may be considered; however, we will give priority to those submitted by the deadline. Applicants must be U.S. citizens. Participants receive a \$5,000 stipend and tuition is covered. Travel, housing, and food expenses are also covered when the program is residential.

GRANTS

[NMFS-Sea Grant Fellowship Call for Applications](#)

The National Sea Grant College Program and the National Marine Fisheries Service (NMFS) support a Ph.D. graduate fellowship in two specific areas:

- Population and ecosystem dynamics
- Marine resource economics

The fellowships offered within this program are aimed at training the next generation of specialized experts in fisheries management.

Important Information:

Deadline: **Applications are due to California Sea Grant by January 27, 2022, 5 p.m. PST**

Funding Availability: \$54,166 per year for up to three years

Anticipated start date: August 1, 2022, with projects to be completed by July 31, 2025

[NOAA-NOS-NCCOS-2022-2007023](#)

[Harmful Algal Bloom Control Technologies Incubator](#)

Department of Commerce

The purpose of this document is to advise the public that NOAA/NOS/National Centers for Coastal Ocean Science (NCCOS)/Competitive Research Program (CRP) [formerly Center for Sponsored Coastal Ocean Research (CSCOR)/Coastal Ocean Program (COP)] is soliciting proposals from the Cooperative Ecosystems Studies Units (CESU) to implement a 5-year Harmful Algal Bloom (HAB) Control Technologies Incubator (HCTI) under the auspices of the NCCOS/CRP Prevention, Control and Mitigation of HAB Program (PCMHAB). This funding opportunity will provide support for one award to develop and administer a national program that accelerates the development and application of HAB control approaches. To accomplish this, the main objective of the HCTI will be to fund extramural proof of concept, innovative HAB control technology projects to assess their feasibility. Promising technologies will then be encouraged to apply to relevant future PCMHAB competitive funding announcements independent from the HCTI. In addition, the other objective of the HCTI will be to provide guidance to end users and stakeholders on navigating the relevant licensing and permitting processes (e.g., National Environmental Protection Act and Federal Insecticide, Fungicide, and Rodenticide Act requirements) relevant to the applicability of proven control methods during responses to

ongoing HAB events. The proposals must address how the HCTI will accomplish these two objectives. This funding opportunity is intended to support the administration of the HCTI and is not intended to directly support individual research projects or short term activities on specific local coastal HAB issues. Funding is contingent upon the availability of Fiscal Year 2022 Federal appropriations. If funds become available for this program, one project for a HCTI will be funded for approximately \$1.5M/year for 5 years, not to exceed \$7.5M over that period. If successful, the selected project may receive an additional \$7.5M for a second and final 5 year period of performance. It is anticipated that projects funded under this announcement will have a September 1, 2022 start date. **Current Closing Date for Applications: Jan 27, 2022**

[National Fish and Wildlife Foundation Emergency Coastal Resilience Fund 2021 Request for Proposals \(RFP\) Released](#)

NFWF's funding comes directly from the Extending Government Funding and Delivering Emergency Assistance Act, (PL 117-43) to support projects that increase the resilience of wildlife habitat and coastal communities impacted by hurricanes and wildfires in 2020 and 2021. Under the same authorities as NFWF's National Coastal Resilience Fund, NFWF will award approximately \$24 million in grants through this RFP for practices that help restore wetlands, build living shorelines, improve hydrologic flow, reduce hazardous fuels, and generally enhance natural systems. The Request for Proposals is officially launched November 17, 2021 and **will close on February 3, 2022**, when the Full Proposals are due. Due to the emergency nature of these funds, a non-federal match is not required. The RFP can be found here:

<https://www.nfwf.org/coastalresilience/emergency/Pages/home.aspx>

You can find additional application instructions on the webpage in the "Tip Sheet."

SAVE-THE-DATE GRANT ANNOUNCEMENT

California State Parks Division of Boating and Waterways (DBW) expects to open the application window for the 2022 [Quagga and Zebra Mussel Infestation Prevention Program Grant Cycle in March 2022](#), subject to available funds.

Minimum Eligibility Requirements:

1. Grant applicant must own/manage any aspect of the water in a reservoir;
2. The reservoir must be open to the public for recreation; and
3. Grant applicant must demonstrate that the reservoir is uninfested with dreissenid mussels.

To demonstrate that the reservoir is uninfested, applicants must provide mussel monitoring data collected since March 2021. Monitoring data can be from surface surveys, artificial substrates, and plankton tows.

[Partners for Fish and Wildlife FY22](#)

Department of the Interior

Fish and Wildlife Service

The Partners for Fish and Wildlife (PFW) Program is a voluntary, incentive-based program that provides direct technical assistance and financial assistance in the form of cooperative and grant agreements to private landowners to restore and conserve fish and wildlife habitat for the benefit of federal trust resources. The PFW Program is delivered through more than 250 full-time staff, active in all 50 States and territories. Partners for Fish and Wildlife Program staff coordinate with project partners, stakeholders and other Service programs to identify geographic focus areas and develop habitat conservation priorities within these focus areas. Geographic focus areas

define where the program directs resources to conserve habitat for federal trust species. Project work plans are developed strategically, in coordination with partners, and with substantial involvement from Service field staff. The program has been in existence since 1987 and has over 30 years of successful delivery. Project selection will seek to align or support the Secretary's priorities. It also advance the Department of the Interior's mission, U.S. Fish and Wildlife Service's mission, and PFW's mission, promote biological diversity, and based upon sound scientific biological principles. Program strategic plans inform the types of projects funded under this opportunity.

[The FlowCam Aquatic Research Equipment & Travel Grant for Graduate Students and Undergraduate Faculty](#)

- Are you a graduate student studying marine, freshwater, or estuarine ecosystems with a focus on microorganisms or other particles?
- Are you a faculty member who would like to introduce your students to modern methods of data collection?
- Wouldn't you love a method to streamline your research and speed up the tedious process of manual microscopy?

Enter to win the use of a FlowCam instrument for up to 4 months, including remote training, technical support, and temporary software licenses.

Winners will also receive funding to present at a major scientific conference in North America within twelve months of project completion. Eligible expenses include conference registration, travel, food, and lodging.

Masters or Ph.D. Students Application Deadline: April 15, 2022

Undergraduate Faculty Application Deadline: June 15, 2022

FEDERAL/STATE/PROVINCIAL LEGISLATION, RULES, ACTIONS

[\[Canadian\] National parks eye invasive species \(1/13/22\)](#)

The federal government announced \$14.7 million late last year to prevent and manage aquatic invasive species in Banff, Jasper, Kootenay, Waterton Lakes, and Yoho national parks. The money is designed to help increase surveillance and to combat the spread of invasive species. Currently, only one lake in the national parks has an invasive species. In 2016, it was discovered that Johnston Lake in Banff had a parasite that causes whirling disease, which causes skeletal deformation in certain types of fish, such as whitefish, bull trout and cutthroat trout. The funding will help prevent the parasite from moving to other lakes, and prevent or slow the spread of other invasive species, such as zebra mussels inside the parks.

Advocacy:

[Lift prohibition on new kelp farms off California's coast \(1/20/22\)](#)

[opinion] Seaweed is already the most sustainable superfood consumed by humans worldwide. It's used in everything from cosmetics to biopharmaceuticals. Yet despite the enormous demand for this sustainable, environmentally friendly product, California prohibits new seaweed cultivation projects off its 1,000-mile coastline. Fully repealing that ban would boost our economy and help make the state a world leader in aquaculture.

State/Province

[\[Idaho\] Bill would drop invasive species fee for paddleboards, canoes \(1/20/22\)](#)

Idaho would remove the requirement for \$7 annual invasive species stickers on paddleboards, canoes and other small non-motorized craft, while sharply increasing fees for motorized boats from out of state, under new legislation introduced Thursday in a House committee. Rep. Doug Okuniewicz, R-Hayden, proposed the bill to the House Environment, Energy & Technology Committee, which agreed to introduce it. That clears the way for a possible full hearing.

Judicial

Executive

[Martha Williams' nomination as USFWS director advances \(1/24/22\)](#)

The U.S. Senate Committee on Environment and Public Works approved Martha Williams' nomination as director of the U.S. Fish and Wildlife Service in a 16-4 vote on Jan. 12. [Williams is the former director of Montana Fish, Wildlife & Parks].

[Invasive Carp Barrier, Chicago Shoreline Protection Big Winners in Army Corps Funding Bonanza \(1/19/22\)](#)

Flush with \$17 billion in supplemental funding from the recently passed Infrastructure Investment and Jobs Act, the U.S. Army Corps of Engineers announced Wednesday the slate of projects it can now tackle due to the infusion of cash, and the Chicago region is reaping the benefits. Among the big ticket items in the Corps' 2022 civil works budget: \$225.8 million to complete the planning and engineering phase of the Brandon Road Lock and Dam invasive carp barrier. The Corps' allocation also covers the start of construction on the barrier.

[Biden to deliver 1st State of the Union address in March \(1/7/22\)](#)

House Speaker Nancy Pelosi has invited President Joe Biden to deliver the State of the Union address -- the first of Biden's presidency -- on Tuesday, March 1, 2022.

Congressional

[Committee advances Recovering America's Wildlife Act \(1/20/22\)](#)

The U.S. House Committee on Natural Resources advanced the [Recovering America's Wildlife Act \(H.R. 2773\)](#) in a bipartisan vote during this week's full committee markup on the legislation. The bill now advances to the full House of Representatives for consideration. The Wildlife Society, along with the American Fisheries Society, submitted [testimony](#) encouraging members

of the committee to vote in favor of the bill. This outreach occurred alongside [efforts](#) by many TWS chapters that have reached out to their members of Congress expressing support. If passed into law, the legislation will secure \$1.3 billion in funding annually for state fish and wildlife agencies as well as \$97.5 million annually for tribal nations to proactively conserve species of greatest conservation need.

Archived Legislative Hearing [HERE](#)

Note: [H.R.2773](#) has 154 cosponsors, [S.2372](#) has 32 cosponsors

Now what: According to [E&E DAILY \(1/20/22\)](#)

.....Republicans praised the "Recovering America's Wildlife Act," [H.R. 2773](#), as necessary to combat the biodiversity crisis and prevent future additions to the list of endangered species. But they also proposed multiple amendments designed to undermine the Endangered Species Act and the National Environmental Policy Act — federal programs Democrats hold dear. The two parties similarly got no closer to an agreement on a suitable offset for the measure's nearly \$1.4 billion in annual spending, a sticking point a majority of Republicans on the committee said they needed in order to ultimately support the legislation. "I take the need for offsets very seriously," the committee's ranking member, Rep. Bruce Westerman (R-Ark.), said. It's unclear what's next for a bill that supporters have been pushing for more than five years. Advocates on and off Capitol Hill say it would, if passed, constitute one of the most consequential acts of conservation policy in the last century. Having advanced in the committee yesterday on a 29-15 vote, the bill would likely have the backing to pass in the Democratic-controlled House. Four Republicans joined 25 Democrats in voting for the bill, which has 151 co-sponsors in the House — 37 of them GOP members. On the Senate bill, [S. 2372](#), there are currently 32 co-sponsors, equally split between the two parties. However, supporters have said the bill's fate in the Senate depends on its ability to withstand partisan politics, which likely won't be resolved without a deal on a pay-for...

Related: [AFWA Applauds the House Committee on Natural Resources Markup of the Recovering America's Wildlife Act \(1/20/21\)](#)

[Chairs DeFazio, Napolitano Statements from Hearing on the Administration's Priorities for WRDA 2022 \(1/12/22\)](#)

...Since 2014, this committee has been successful in enacting four consecutive, bipartisan WRDA bills, and today, we take our first step in continuing that tradition in the 117th Congress. In 2014, former Chairman Bill Shuster made a commitment to enacting a new water resources bill every two years. That tradition has continued, unabated, since that time, and biennial consideration of WRDA legislation is now the regular order of this committee. Enacting WRDAs each Congress provides a predictable timeline for non-federal project sponsors and the Corps alike as projects move through the study and construction phases. Most importantly, the

timeline works. It allows for Congress' timely consideration of the Corps' important water infrastructure projects that provide benefits to communities across the nation.

Videos of opening statements from DeFazio and Napolitano can be found [here](#) and [here](#). **More information** on the hearing can be found [here](#).

Now What: Further information on WRDA 2022 will be provided in the *AIS News*. Also see <https://transportation.house.gov/wrda-2022-press-releases> for upcoming House committee announcements

[Rep. Garret Graves: Congress is threatening to ban nutria trapping \(1/23/22\)](#)

Congressman Garret Graves has launched a counterattack against legislation being considered in the U.S. House that would ban the use of traps in the National Wildlife Refuge System and other areas. In Louisiana, this bill would make the National Wildlife Refuges a safe harbor for the invasive species and set back the progress made with the Coastwide Nutria Control Program, Graves pointed out in a news release. "Nutria have caused the loss of thousands of acres of coastal Louisiana. These invasive pests exacerbate coastal wetlands loss, damage levees, agriculture, and other infrastructure," he stated. Without trapping, nutria will continue to destroy native plants and burrow holes in levees – remaining a large threat to the hurricane protection and coastal restoration efforts. National Wildlife Refuges also provide habitats for migratory birds and native wildlife.

APPROPRIATIONS

[Congress in jeopardy of missing shutdown deadline \(1/31/22\)](#)

Congressional negotiators are in danger of missing the Feb. 18 deadline for passing an omnibus package of the annual appropriations for fiscal 2022. A shutdown is unlikely, but members of the Senate Appropriations Committee from both parties warn that if negotiators blow through the mid-February deadline, it increases the likelihood that Biden will have to settle for a yearlong stopgap funding measure to keep the government open.

Related: [Fiscal spending deadline nears while lawmakers face pressure to strike deal \(1/26/22\)](#)

[Starting from 'scratch' on climate, spending bill \(1/20/22\)](#)

Sen. [Joe Manchin](#) (D-W.Va.) said Thursday that talks over [President Biden's](#) sweeping climate and social spending package would be "starting from scratch," throwing cold water on hopes of a quick revival.

An AIS federal legislative table is posted on the web on the www.westernais.org website. Go to <https://www.westernais.org/federal-provincial-regulations> and see *AIS Legislative Tracker*

TRAININGS, WEBINARS, CONFERENCES AND MEETINGS

Archived Materials

Events: Webinars, Trainings, Conferences and Meetings

Watercraft Inspection Training

Level 1 Virtual Training - February 22-23, 2022 (2 days) 8am-noon PST; [[Register Here](#)]

Level 1 Virtual Training - March 22-23, 2022 (2 days) 8am-noon PST; [[Register Here](#)]

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Level 2 Virtual Training - February 22-24, 2022 (3 days) 8am-noon PST; [[Register Here](#)]

Level 2 Virtual Training - March 22-24, 2022 (3 days) 8am-noon PST; [[Register Here](#)]

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Level 3 Virtual Training - March 8-10, 2022 (3 days) 8 am to 4 pm PST; [[Register Here](#)]

For more information go to <https://www.westernais.org/> (under the “Training” tab)
or contact

Quagga D @ (702)236-3814 or quaggadee@cox.net

Because of continued concerns due to COVID-19 upcoming meetings and events listed below may be postponed, cancelled or converted to teleconferencing events. Please check directly with the organizers of these events for the most up-to-date information.

[DOI Invasive Species Training Opportunities Spreadsheet](#)

February

[Invasive Species Centre: Annual Invasive Species Forum](#). The virtual 2022 Invasive Species Forum is taking place on February 1-3, 2022. The theme is Action, Innovation, and Outreach. The Invasive Species Forum is an annual event that brings attention to invasive species issues, research, and advances in prevention and management occurring across Canada, and in

neighbouring U.S. States. The Invasive Species Forum will showcase speakers from around the world, on a diverse array of topics

[2022 Midwest Fish and Wildlife Conference](#), February 13-16, Des Moines IA

[INVASIVES 2022 Virtual Forum & AGM](#)

February 15, 2022 - February 17, 2022

The INVASIVES Annual Forum & AGM is an exciting opportunity for non-profit organizations, government staff, Indigenous leaders, industry, stewardship groups, academics and more from across the Pacific Northwest region and beyond, to network and share their knowledge and expertise about invasive species. Everyone is welcome.

The INVASIVES 2022 Forum will incorporate a variety of workshops, keynote presentations, plenary and speedy sessions along with plenty of opportunities for networking throughout the event. See what was posted during last year's forum, INVASIVES 2021, on social media by searching the event hashtag #INVASIVES2021

Michigan Invasive Species Program's NotMISpecies Webinar Series:

February 16, 2022, 9:00 a.m. to 10:00 a.m ET. - [The AIS-Team: Conservation officers on a mission to prevent invasive species](#)

NAISMA Webinar February 16, 2022 @ 1:00 pm - 2:00 pm CST - [The Power of Ethical Framing](#) Presented by: Dr. Bret Shaw, Department of Life Sciences Communication & Division of Extension at the University of Wisconsin-Madison, and Tim Campbell, Aquatic Invasive Species Outreach Specialist at the University of Wisconsin Sea Grant Institute
Message frames are often used to communicate about invasive species due to the additional meaning they provide. They appear in calls to action like “join the battle against invasive species,” “unwelcome exotics,” or “Stop Aquatic Hitchhikers.” However, little is known about how stakeholders respond to these message frames. This research tested five common message emphasis frames used in invasive species communication. These message frames were placed in social media advertisements about zebra mussels to determine the impact each message frame had on user online behavior.

[National Invasive Species Awareness Week](#)

February 28, 2022 – March 4, 2022

March

[11th Annual Columbia Gorge Invasive Species & Exotic Pest Workshop](#)

We are excited to announce that our annual invasive species symposium is scheduled for March 3rd, 2022! It will be co-hosted by the Columbia Gorge Cooperative Weed Management Area (CWMA), USDA Animal and Plant Health Inspection Service, the Washington Invasive Species Council, and Washington State University Extension. 2022 Invasive Species & Exotic Pest Workshop

Thursday, March 3rd, 2022

10:00am-3:15pm PST

Webinar (via Zoom Webinar)

Cost: FREE

[Register now!](#)

ODA and WSDA pesticide recertification credits are anticipated for attendees (approval pending).

[2022 Missouri River Natural Resource Conference](#)

Theme – Missouri River: Ebbs & Flows

Conference Dates: March 21-23, 2022

Conference Location: Lied Lodge Conference Center in Nebraska City, Nebraska

The next meeting of the [Pacific Ballast Water Group \(PBWG\)](#) will be March 29-30, 2022 (Tuesday/Wednesday). This will be a virtual event. More detailed information on the meeting will be sent out in the next month

April

April 18-22 ICAIS Oostende Belgium: The [International Conference on Aquatic Invasive Species \(ICAIS\)](#) is the most comprehensive international forum to address new and emerging issues related to aquatic invasive species in freshwater, marine and estuarine environments. ICAIS provides an international platform for the presentation of aquatic invasive species research that pertains to species biology, risk assessment, prevention, management and control methods, ecological and ecosystem impacts and restoration, outreach and policy. Online Registration is available now! Early Registration ends 14-Jan-2022

May

Mark your calendars for the [Joint Aquatic Sciences Meeting](#) in Grand Rapids, Michigan, May 14-20, 2022. The meeting will be held at the DeVos Place convention center and it is organized by the Consortium of Aquatic Science Societies (CASS).

[11th International Conference on Marine Bioinvasions](#) May 15-19, 2022; Annapolis, Maryland

October

[Upper Midwest Invasive Species Conference 2022](#)

October 25-27, 2022; Green Bay, Wisconsin.

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