

# AQUATIC INVASIVE SPECIES NEWS 8/27/21

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### **SPOTLIGHT:**

# New research provides guidance for effective public messaging about invasive species prevention

New research from Wisconsin Sea Grant Aquatic Invasive Species Outreach Specialist Tim Campbell, University of Wisconsin-Madison Associate Professor Bret Shaw and consultant Barry T. Radler sheds new light on such communication. The researchers analyzed which communication strategies are most effective and which may pose unintended problems. Shaw is a faculty member in the Department of Life Sciences Communication and is also an environmental communication specialist in the university's Division of Extension. The team's findings were published online Aug. 14 in the journal Environmental Management <u>("Testing Emphasis Message Frames and Metaphors on Social Media to Engage Boaters to Learn about Preventing the Spread of Zebra Mussels").</u>

Although the ads presented messages similar to those commonly used in invasive species communication, up until this point little testing had actually been done about their effectiveness. The commonly used message frames were dubbed hitchhiker, militaristic, nativist, science and protective. The messages were paired with artwork by Brooke Alexander.

Many communication goals, the team found, can be achieved by using fact-based or more positive message frames. In general, the science frame—a direct, factual approach—will always perform at least as well as nativist and militaristic frames.

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Said Campbell, "This work provides real-world results that can help those working with invasive species achieve their desired communication results, while avoiding possible unintended consequences from their messaging." For example, nativist message framing (e.g., "alien," "exotic") can have unwanted xenophobic connotations while also not performing better than other frames on any tested metric.

Similarly, militaristic framing (such as stating we are "at war" with invasive species) can create potentially unhealthy relationships with nature and misguided views on how to manage invasive species.

Shaw noted that the metrics tested for the Facebook ads included cost-per-click, shares and comments. As he explained, "Many scholars and AIS professionals have debated the use of nativist or militaristic language in prevention campaigns, since many of them find that language to be fraught with unwanted implications. Based on our research, we recommend that outreach professionals skip those nativist and militaristic frames and focus instead on clearly communicated science."

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The team's journal article may be read online. The research was supported by Wisconsin Sea Grant and the University of Wisconsin-Madison Division of Extension.

# **PUBLIC COMMENT**

# Agencies Seek Public Input on Aquaculture Regulatory Efficiency and Science Planning Task Force draft strategic plans Notice

NOAA Fisheries and U.S. Department of Agriculture's Agricultural Research Service (USDA-ARS) are providing notification, on behalf of the National Science and Technology Council's Subcommittee on Aquaculture, of a 45-day comment period for the two Regulatory Efficiency and Science Planning Task Force draft strategic plans: The Strategic Plan to Enhance Regulatory Efficiency and the Strategic Plan for Federal Aquaculture Research. The 45-day comment period for both plans is **open through September 18, 2021.** These two plans establish a road map for federal agencies to increase the overall effectiveness and productivity of federal aquaculture regulation, research, and technology transfer. The Federal Register notice can be viewed at <u>https://www.federalregister.gov/documents/2021/08/05/2021-16711/notice-for-comment-ontwo-strategic-plans-for-the-subcommittee-on-aquaculture-science-planning-and</u>

> Aquaculture Regulatory Efficiency Task Force Listening Session Announced

On September 3, the National Science and Technology Council's Subcommittee on Aquaculture Regulatory Efficiency Task Force will host an informational listening session via GoToWebinar.

Please register to join a panel of task force members as they describe their respective agency's role in implementing the draft Strategic Plan to Enhance Regulatory Efficiency in Aquaculture. The draft strategic plan is open for public comment until September 18, 2021. Aquaculture Regulatory Efficiency Task Force Informational Session Friday, September 3, 2021 2:00 - 3:00 p.m. Register Here

### **NEW SPECIES SIGHTINGS**

Want to get more new species alerts? USGS NAS: <u>https://nas.er.usgs.gov/AlertSystem/default.aspx</u> IMAP INVASIVES: <u>https://www.imapinvasives.org</u>

### **DREISSENIDS**

[Manitoba] <u>Province Takes Steps To Contain Zebra Mussels Following Discovery In Lake</u> <u>Manitoba (8/17/21)</u>

### **OTHER AIS**

[California] <u>Craspedacusta sowerbyi</u> (freshwater jellyfish) was found in Upper Cosumnes River [USGS NAS]

[Kansas]

*Faxonius rusticus* (Rusty Crayfish) was found in McPherson State Fishing Lake, KS. [USGS NAS]

[Montana] <u>Chelydra serpentina (Snapping Turtle)</u> was found in Middle Clark Fork, MT [USGS NAS]

[Washington] <u>Craspedacusta sowerbyi</u> (freshwater jellyfish) was found in Lake Sammamish [USGS NAS]

[Wyoming] <u>Potamogeton crispus (curly-leaf pondweed)</u> was found in Pathfinder Reservoir, western shore [USGS NAS]

### WATCH LIST

Montana Wants Help From Public In Reporting Snapping Turtle Sightings West Of Divide (5/20/21)

First Asian giant hornet nest of 2021 found near Blaine (8/20/21)

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DFO wants people to report sightings of European Green Crabs in the Salish Sea. Sightings can be reported to <u>AISPACIFIC@dfo-mpo.gc.ca</u>

# **DREISSENID MUSSELS**

Preventing the Spread of Quagga and Zebra Mussels to the Columbia River Basin and Pacific Northwest via Interstate Boat Sales (NSGLC)

At the request of Wisconsin Sea Grant, the National Sea Grant Law Center conducted research to inform discussions regarding interstate boat sales. Online boat sales are a potential pathway for the spread of aquatic invasive species. Of particular concern is the sale and transport of boats from the Upper Midwest and Lower Colorado River to the Pacific Northwest due to the presence of quagga and zebra mussels (QZM) in those regions. Because this memorandum was requested by Wisconsin Sea Grant, the analysis of state law focuses on the Upper Midwest route. While the details of state law will vary, the memorandum's overall discussion of the issue is equally applicable to the Lower Colorado River route.

Lake Manitoba dynamic sure to change with invasion of zebra mussels, says commercial fishing prez (8/19/21)

"All of the fishers I have spoken to who fish on this lake are very concerned about what impact this is going to have on the lake and on the fishery," Lake Manitoba Commercial Fishermen Association president Allan Gaudry said.

### [South Dakota] New Efforts To Control Spread Of Invasive Zebra Mussels (8/12/21)

This summer, the U.S. Army Corps of Engineers is taking new steps to prevent and limit damage to the dams along the Missouri River. Invasive zebra mussels are clogging up power generating systems and could increase rates for customers.

Gary Hinkle, deputy chief of operations in Omaha for the U.S. Army Corps of Engineers, said Gavin's Point Dam in Yankton County has been hit the hardest so far.

### Five invasive species to watch for in the Yukon (8/8/21)

The territory has a new top five invasive species of concern list from the Yukon Conservation Data Centre. These are species to watch due to their existing impacts, or due to the probable impacts if they establish in the Yukon. The five species are zebra mussels, creeping thistle, seven-spotted lady beetle, smooth brome and sweet clover.

[Utah] Deer Creek Reservoir to undergo \$60 million in infrastructure upgrades (8/4/21)

New technologies will be added to also guard against an invasive species: Quagga mussels. The reservoir faced a scare when Quagga mussel DNA was detected in the water. No other signs of them were found and the water body has been declared clear since 2018.

But given how big Deer Creek is for recreation and water supply, the association said it wanted to ensure they can prevent an infestation.

"It would destroy the ecosystem and it would wreak havoc on the infrastructure. And so with the new project we're doing, it's going to have state-of-the-art infrastructure that will keep the Quagga mussel from binding to things," said Faux.

### Great Lakes in Peril: Invasives, pollution, climate change (8/4/21)

When you visit one of the Great Lakes, whether it's a sandy beach or a rocky coastline, it's hard to imagine how something so big could be affected so profoundly by alien invasive species, or pollution, or climate change. This Environment Report special looks at each of these threats.

# **BOAT INSPECTION/DECON/TECH NEWS**

### This has been a year of ever-increasing mussel-fouled watercraft entering Montana (8/19/21)

Not all records should be broken. Case in point, the 2020 record of 35 zebra and/or quagga mussels found on watercraft at the Montana Fish, Wildlife & Parks, and partner contract inspection stations. That record has been shattered this summer with 49 mussel-fouled watercraft discovered during inspections, according to the latest statistics available as of August 16.

# Mandatory boat decontamination in effect after zebra mussels detected in Lake Manitoba (8/17/21)

Mandatory watercraft decontamination is now in effect for boats and other water-related equipment used in Lake Manitoba before being put in any other waters, according to a provincial release Tuesday. The measures come after juvenile zebra mussels, also called zebra mussel veligers, were detected in nine water samples taken during monitoring from Lake Manitoba Narrows in July.

[Montana] Aquatic invasive species work continues as funding sources change (8/14/21) Despite the heat and smoke, it remains a busy summer for the Aquatic Invasive Species Bureau in Montana. As of Friday, Bureau Chief Tom Woolf said 49 boats have been found with aquatic

invasive mussels, far surpassing the 35 boats with mussels detected last year which, at the time, was the all-time record. There have been around 70,000 boats checked so far this year, Woolf said.

### [Michigan] Isle Royale National Park Helping Boaters Clean Their Craft (8/12/21)

Isle Royale National Park is partnering with the Keweenaw Invasive Species Management Area to offer free boat washes at marinas and boat launches in Houghton, Baraga, and Keweenaw counties in Michigan this summer. The boat wash events, funded by the National Park Service and Great Lakes Restoration Initiative, are being held to encourage boaters, kayakers, and jet skiers to Clean, Drain, and Dry watercraft to prevent the spread of aquatic invasive species, particularly zebra mussels, in Lake Superior waters.

# **BALLAST WATER/BIOFOULING**

### Advancing ballast water industry standards helps achieve compliance (8/6/21)

The 2004 IMO Ballast Water Management Convention had an implementation date of September 9, 2018. This means the industry is just over halfway through the retrofit phase which will end in September 2023. The International Maritime Organization's (IMO) Marine Environmental Protection Committee meeting (MEPC 76) has delayed discussing the majority of ballast treatment items until February 2022. That is unfortunate, because there is still a lot to talk about with respect to ballast water implementation. It is time as an industry that we pick up that conversation ourselves.

First MR, Riley SC, Islam KA, Hill V, Li J, Zimmerman RC, Drake LA (2021) Rapid quantification of biofouling with an inexpensive, underwater camera and image analysis. Management of Biological Invasions 12(3): 599–617, https://www.reabic.net/journals/mbi/2021/3/MBI\_2021\_Scianni\_etal.pdf

Scianni C, Lubarsky K, Ceballos-Osuna L, Bates T (2021) Yes, we CANZ: initial compliance and lessons learned from regulating vessel biofouling management in California and New Zealand. Management of Biological Invasions 12(3): 727–746, <u>https://doi.org/10.3391/mbi.2021.12.3.14</u>

# MARINE

<u>Tool predicts which native fish species are most at risk from lionfish predators (8/20/21)</u> Coastal countries have between two and five years to act to protect native fish species once voracious lionfish arrive in their waters, according to a University of Alberta ecology professor who helped create a <u>tool</u> to predict which fish are in danger.

### UH-Maui lab tech works to stop an invasive seaweed (8/14/21)

A team of researchers returned earlier this week from a 20-day voyage to the Papahanaumokuakea Marine National Monument, where they studied a newly identified invasive seaweed smothering corals and algae. Staff with the University of Hawaii-Maui College water quality lab and colleagues from the National Oceanic and Atmospheric Administration, UH-Manoa and the College of Charleston were on a mission to research ways to mitigate the spread of the fast-growing nuisance alga called "*Chondria tumulosa*," which is posing a serious threat to native species.

One of the Ocean's Biggest Threats Is Still Mostly a Mystery (8/7/21)

The first signs of trouble came in the mid-2000s. A strikingly beautiful, highly venomous animal called the lionfish—first spotted outside its native range in the Indo-Pacific in the 1980s— seemed to be in every reef, mangrove forest, and seagrass meadow in the Caribbean. The fish quickly became the face of what the International Union for Conservation of Nature has called "arguably the most insidious threat" to marine biodiversity: invasive species.

### [Alaska] Aquaculture can benefit local ecosystem (8/15/21)

THE aquaculture industry in Alaska has welcomed recent research showing that farmed shellfish and seaweed can have a positive impact on the environment.

Alaska has seen a significant increase in aquatic farm applications. If the state approved all the applications currently under review it would result in an approximately 850% increase in the acreage for aquatic farms over the last five years.

So the news that aquaculture can have benefits for the surrounding ecosystem is welcome indeed. A recent paper led by The Nature Conservancy in Arlington, VA, states, "A growing body of scientific evidence indicates that the commercial cultivation of bivalve shellfish and seaweed can deliver valuable ecosystem goods and services, including provision of new habitats for fish and mobile invertebrate species."

### [British Columbia] Fish farm report disappoints North Island-Powell River MP (8/14/21)

An interim report on the federal government's consultations on the aquaculture industry transition in British Columbia is a disappointment to North Island-Powell River MP Rachel Blaney. In a media release, Blaney stated the report had no clear plan on what the transition for the industry would look like and that the government has made no steps toward fulfilling the promise made by the Liberals in 2019 to end all open-pen fish farms by 2025.

### We Wai Kai First Nation examining sablefish aquaculture feasibility (8/10/21)

The We Wai Kai First Nation will be conducting fish habitat surveys to assess the feasibility of establishing a sablefish aquaculture farm. The surveys are being supported with \$144,200 from the British Columbia Salmon Restoration and Innovation Fund (CSRIF), a provincial and federal cost-shared program, as announced on Aug. 4.

# [Washington] Cooke Aquaculture gets permit to allow stocking of Hope Island farm in Washington (8/6/21)

Cooke Aquaculture has received a key permit from the U.S. state of Washington that will allow it to stock its Hope Island farm with rainbow trout. The permit, issued by the Washington Department of Fish and Wildlife on 5 August, will allow Cooke to stock its Hope Island farm, in Puget Sound's Skagit Bay, with 365,000 steelhead, also known as rainbow trout. But the facility's lease expires in March 2022, before the fish will be ready for harvest, meaning the company must either obtain an extension on its lease or move the fish to another site by that time.

Related: <u>Cooke Aquaculture Secures Permit to Stock Risky Washington Fish Farm (8/6/21)</u> <u>Swinomish Tribe objects as state allows Cooke Aquaculture to stock net pen at Hope Island</u> (8/9/21)

Ocean farmers challenge dishonest diatribe of anti-aquaculture activists (8/9/21)

# Government of Canada and Province of British Columbia invest in sustainable salmon research and aquaculture science (8/4/21)

Today, the Minister of Fisheries, Oceans, and the Canadian Coast Guard, the Honourable Bernadette Jordan, and the BC Parliamentary Secretary of Fisheries and Aquaculture, Fin Donnelly, announced \$7.9 million in funding for seven projects under the British Columbia Salmon Restoration and Innovation Fund (BCSRIF).

### FISH

Video: <u>Asian Carp Fishing</u>, <u>Saving the Great Lakes from Aquatic Invasive Species</u> (Starring Jackson Gross)

[Tennessee] Commercial Fishers Reach 10 Million-Pound Mark in Carp Removal Program (8/17/21)

The Tennessee Wildlife Resources Agency's Asian Carp Harvest Incentive Program (ACHIP) has reached a milestone in July as 10 million pounds of invasive carp have been removed from Kentucky and Barkley reservoirs. The program began in September 2018 and has provided incentives to wholesale fish dealers and commercial fishers that harvest invasive carp.

### Biologists Have Discovered a New Way to Control Invasive Carp (8/12/21)

They've tried netting them, catching them, trapping them, eating them, and using them for cat food and fertilizer. But four species of non-native carp continue to thrive in a decades-long scourge that could forever transform the nature of some American waters and their sportfish populations. According to <u>Phys.org</u>, U.S. Geological Survey (USGS) and University of Missouri scientists may have discovered a breakthrough in the war on invasive carp. They're studying the complex way carp eggs move in rivers, hoping they can find and remove them pre-hatch.

### [Alaska] Study highlights habitat vulnerable to invasive pike (8/5/21)

Biologists have been working on eliminating northern pike from Kenai Peninsula lakes and streams for years. Northern pike are native to Alaska north of the Alaska Range in areas like Bristol Bay and Fairbanks, but they were introduced to lakes in Southcentral in the mid-20th century. Since then, they've been stuffing themselves on salmon fry and degrading salmon runs in the Mat-Su Valley, Anchorage, and the Kenai Peninsula.

# **AQUATIC PLANTS**

# DEC Announces Aquatic Invasive Plant 'Hydrilla' Found at City of North Tonawanda Marina (8/20/21)

The New York State Department of Environmental Conservation (DEC) today announced that the plant hydrilla, an aquatic invasive species (AIS), has been found at the City of North Tonawanda Marina. DEC and its partners, including the U.S. Army Corps of Engineers (USACE), are working to prevent the infestation from spreading. There are no other known infestations of hydrilla along the river. The discovery was made by a concerned citizen who reported it to USACE.

### New Aquatic Invasive Species Found in Wisconsin for the First Time (8/23/21)

A new-to-Wisconsin aquatic invasive species is motivating conservation workers to move quickly. European Frogbit has been found along a 20-plus mile stretch on the coast of Lake Michigan starting just north of Oconto all the way up to Marinette.

"I myself have fished out of some of these launches. You know if you don't get there by 6:00, 7:00 in the morning you're SOL, you're not going to get a spot, because they're so busy," said Amanda Smith, the region's DNR invasive species specialist. Smith said because it's such a high-traffic area for boaters, that's likely how the invasive spread there.

New report examines lakeshore property owners' attitudes toward aquatic invasive species management strategies (8/23/21)

"Lakeshore property owners, despite largely not being responsible for the spread of aquatic invasive species, are often dealing with the consequences of them in their lakes," says report coauthor Bret Shaw, associate professor in the UW–Madison Department of Life Sciences Communication and environmental communication specialist with the UW–Madison Division of Extension. "We sought to examine lakeshore property owners' perceptions of aquatic invasive species as well as the management strategies used to control or reduce them in their lakes."

Wails, C.N., Baker, K., Blackburn, R. et al. Assessing changes to ecosystem structure and function following invasion by Spartina alterniflora and Phragmites australis: a meta-analysis. Biol Invasions 23, 2695–2709 (2021). <u>https://doi.org/10.1007/s10530-021-02540-5</u>

# FRESHWATER

[Kansas] Invasive crayfish investigation yields results faster than expected (8/7/21)

Rusty Crayfish have large, black-tipped claws and rust-colored spots on the upper shell. They are an invasive species known for "considerable ecological damage," according to the department. Rusty Crayfish were recently discovered at McPherson State Fishing Lake as part of a special university study, and Aquatic Nuisance Species Coordinator Chris Steffen says there were two likely ways it got into that lake.

Ponce JJ, Arismendi I, Thomas A. 2021. Using in-situ environmental DNA sampling to detect the invasive New Zealand Mud Snail (*Potamopyrgus antipodarum*) in freshwaters. PeerJ 9:e11835 <u>https://doi.org/10.7717/peerj.11835</u>

Moss Ball Incident Action Report (Columbia River Basin AIS Team, July 2021)

Drost CA, Lovich JE, Rosen PC, Malone M, Garber SD (2021) Non-native pond sliders cause long-term decline of native Sonora mud turtles: a 33-year before-after study in an undisturbed natural environment. Aquatic Invasions 16(3): 542–570, <u>https://doi.org/10.3391/ai.2021.16.3.10</u>

# **CLIMATE CHANGE**

### Invasive Insects and Plants Spread Northward (8/8/21)

From tree-eating beetles to crop-smothering vines, pests once found only in more southerly latitudes are expanding their ranges, as climate change spurs warmer winters

### **OTHER**

### Invasive plants are still for sale as garden ornamentals, research shows (8/17/21)

Results of a new study by ecologists at the University of Massachusetts Amherst show that 1,330 nurseries, garden centers and online retailers are still offering hundreds of invasive plant species as ornamental garden plants. This includes 20 species that are illegal to grow or sell nationwide. The study, "Invaders for sale: the ongoing spread of invasive species by the plant trade industry," published in Frontiers in Ecology and the Environment, shows that existing regulatory and ethical guidelines do not serve to limit the widespread introduction of invasive plants and that more than 60% of the 1,285 plants identified as invasive remain for sale.

### [Washington] Invasive species imperil environment, economy (8/11/21)

The discovery July 22 of eight pythons in Lacamas Park in Camas was what we in the news business call a "talker," that is, a story that's not necessarily important in the big scheme of things, but captures the public's attention. Police suspect the reptiles, some of which were 6 feet long, were dumped by their owner. While it's highly unlikely the snakes could have survived and thrived in Lacamas Park had they gone undetected, the incident does illustrate how easily such simple irresponsibility can introduce potentially devastating invasive species.

# B.C. government funding creates more jobs to help protect B.C. parks from invasive species (8/12/21)

More people are being trained in new jobs to tackle invasive species creeping into British Columbia's beautiful trails and parks on the North Shore and beyond, thanks to a B.C. government investment.

The Invasive Species Council of BC has already been able to employ more than 100 people to help detect and remove invasive species, thanks to an \$8-million investment from the provincial government's StrongerBC: Economic Recovery Plan.

### InvaCost Database: Economic Cost Estimates Associated with Biological Invasions

InvaCost is the most up-to-date, comprehensive, standardized and robust data compilation and description of economic cost estimates associated with invasive species worldwide1. InvaCost has been constructed to provide a contemporary and freely available repository of monetary impacts that can be relevant for both research and evidence-based policy making.

### Economic Costs of Biological Invasions within North America

Invasive species can have severe impacts on ecosystems, economies, and human health. Though the economic impacts of invasions provide important foundations for management and policy, up-to-date syntheses of these impacts are lacking. To produce the most comprehensive estimate of invasive species costs within North America (including the Greater Antilles) to date, we synthesized economic impact data from the recently published InvaCost database (see related research article: InvaCost, a public database of the economic costs of biological invasions worldwide.

Mangan, Anna et al. (2021), Rooting out genetic structure of invasive wild pigs in Texas, Dryad, Dataset, <u>https://doi.org/10.5061/dryad.cz8w9gj49</u>

Jewell SD, Fuller PL (2021) The unsung success of injurious wildlife listing under the Lacey Act. Management of Biological Invasions 12(3): 527–545, https://doi.org/10.3391/mbi.2021.12.3.03

Davidson AD, Tucker AJ, Chadderton WL, Jensen E, Weibert C, Death R (2021) Assessing progress in regulation of aquatic nonindigenous species across the multijurisdictional waters of the Laurentian Great Lakes, with emphasis on the live trade pathways. Management of Biological Invasions 12(3): 546–577, <u>https://doi.org/10.3391/mbi.2021.12.3.04</u>

Morisette J, Burgiel S, Brantley K, Daniel WM, Darling J, Davis J, Franklin T, Gaddis K, Hunter M, Lance R, Leskey T, Passamaneck Y, Piaggio A, Rector B, Sepulveda A, Smith M, Stepien CA, Wilcox T (2021) Strategic considerations for invasive species managers in the utilization of environmental DNA (eDNA): steps for incorporating this powerful surveillance tool. Management of Biological Invasions 12(3): 747–775, <u>https://doi.org/10.3391/mbi.2021.12.3.15</u>

# **OUTREACH AND EDUCATION**

### UC3 Wins Baucus Innovation Challenge

Kate Wilson and Cassidy Bender of the Upper Columbia Conservation Commission won the Baucus Innovation Challenge at The University of Montana Public Service Academy on August 5. The UC3's efforts in coordination with MT Fish, Wildlife & Parks and the Central Eastern Montana Invasive Species Team to provide AIS outreach to industries across the state took the top prize. The contest challenged attendees of the training to submit a <u>video</u> of an innovative public service program or initiative.

[Washington] 'Amazing': Young scientist alerts King County officials to invasive aquatic plant in Lake Rasmussen (8/12/14)

Eight-year-old Maggie Carosino is already a proven member of the scientific community. The soon-to-be third grader is bashful with her words but passionate about her love of nature. Maggie spent last year homeschooling during the pandemic and her science class of choice was botany. Her enthusiasm for plants paid off for a local lake and the countless animals that it serves.

Major League Fishing And Wildlife Forever Sign MOU To Prevent Invasive Species (8/11/21) Wildlife Forever and Major League Fishing (MLF) announced today that the two organizations have signed an important Memorandum of Understanding (MOU) to combat the spread of invasive species. The new MOU will work to integrate Clean Drain Dry communications and marketing through tournament operations, angler education, and community outreach. Professional anglers are ambassadors for the fishing industry but also key conservationists in working to protect the sport.

Frey M, Reaser JK (2021) Invader Detectives: EDRR in Urban Landscapes. Management of Biological Invasions 12(3): 495–508, https://www.reabic.net/journals/mbi/2021/3/MBI\_2021\_Frey\_Reaser.pdf

# **JOBS/GRANTS**

Cowlitz Indian Tribe Restoration Ecologist/Habitat Restoration Project Manager

POSITION DESCRIPTION Title: Restoration Ecologist/Habitat Restoration Project Manager Schedule: Monday - Friday Location: Vancouver, WA Classification: Exempt Opening Date: July 20, 2021 Salary Range: \$68,992 - \$89,695 Annually DOQ/DOE Closing Date: August 27, 2021

Position Summary: The Restoration Ecologist/Habitat Restoration Project Manager position resides within the Habitat Restoration and Conservation Program in the Natural Resources Department. The Restoration Ecologist identifies potential habitat restoration project sites, pursues grant funding for project planning and implementation, secures permits and permissions, hires and manages design consultants, solicits bids and proposals, and selects construction contractors, supervises construction and ensures permit compliance, supervises interns and scientific technicians, manages grant deliverables, and develops interim and final reports. The Restoration Ecologist also provides technical and policy support to other members of the Natural Resources Department, and coordinates with federal, state, local, and private partners and stakeholders.

The Lower Columbia Estuary Partnership is currently recruiting an Education and Community Programs Manager. The Manager will develop and oversee field and classroom-based environmental education, community paddle programs, and volunteer programs to help advance the Partnership's mission and goals. The Manager will lead a growing Community Programs Team on expanding the quality and reach of programs, fostering innovation, and forming and strengthening authentic partnerships with the communities we wish to serve. Information on the position and how to apply is here: <u>https://www.estuarypartnership.org/education-communityprograms-manager-application</u>

Applications are due Tuesday, August 31st.

### GRANTS

Scientists in Parks Internship Program - Natural Resource Stewardship

Department of the Interior: National Park Service

The Scientists in Parks (SIP) Internship Program provides opportunities for college students, recent graduates, and early career professionals to complete paid internship projects designed to apply the best available science, resource management principles, and interpretation techniques to natural resource stewardship needs in national parks.

Posted Date: Jul 20, 2021

**Closing Date for Applications: Oct 01, 2021** 

[Montana] <u>AIS Grant Cycle Open: DNRC and MISC will be accepting grant applications</u> beginning August 1 to fund aquatic invasive species projects.

NEW this cycle:

DNRC is transitioning from WebGrants to Submittables and this change will make it easier to complete and manage your application online. Grantees will be able to complete reports, send notifications, and track and edit submissions. Click here to create an account and here to watch a video on how to get started with Submittables.

MISC has established permanent dates for the annual AIS grant cycle.

Application cycle opens: August 1

Application cycle closes: 1st Wednesday in November by 5 p.m. (11/3/21)

AIS Grant Program Guidelines and application instructions can be found here.

Please contact Stephanie Criswell (scriswell@mt.gov)

with any questions about the program, the grant and application, or for technical support.

NOAA-NOS-NCCOS-2022-2006972

<u>Understanding multi-stressor impacts on marine ecosystems under climate change</u> Department of Commerce

**Closing Date for Applications: Jan 18, 2022** 

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)], the NOAA Climate Program Office (CPO), and the NOAA Ocean Acidification Program (OAP), in partnership with the NOAA Office of National Marine Sanctuaries (ONMS) and the NOAA Integrated Ocean Observing System (IOOS), are soliciting proposals to understand the combined impacts of multiple stressors on the function and health of marine ecosystems within the context of climate change. This information will be used to improve place-based management of marine protected areas and enable the proactive protection of these critical ecosystems under future climate scenarios. Climate change is exacerbating existing environmental stressors (e.g., hypoxia, harmful algal blooms, and ocean acidification) through changes to the fundamental drivers of ecosystems (e.g., temperature, precipitation, seasonal cycles, and biogeochemistry).

# FEDERAL/STATE/PROVINCIAL LEGISLATION, RULES, ACTIONS

### **Advocacy**

#### NAISMA Responses to U.S. Invasive Species Policy Issues, 117th Congress (8/6/21)

NAISMA has joined and is now a member of the National Environmental Coalition on Invasive Species (NECIS). Founded in 2003, NECIS is a coalition of environmental organizations and professional societies focused on promoting scientifically sound policies that prevent the introduction and spread of invasive species in the United States. NAISMA is continuing to coordinate with the Co-Chairs of the Congressional Invasive Species Caucus. Congressional members founded the caucus in 2013 to raise awareness about invasive species issues, support local communities who are bearing the brunt of this problem, and promote efforts to prevent and control the spread of invasive species. The Caucus provides opportunities for Members of Congress to meet with other policy makers, organizations and industry leaders who work to prevent the spread of invasive species.

### **State/Province**

### [Wyoming] Lawmaker looks to layer on AIS penalties (8/14/21)

A Cheyenne lawmaker is drawing up new penalties to safeguard in-state waters from recordbreaking numbers of watercraft easing down Wyoming boat ramps... "The intent of this bill is to create an enhanced deterrent for individuals who put their watercraft in without an inspection." The fine for an illegal launch and subsequent AIS discovery would be up to \$25,000 under the draft bill. That penalty would come into play only when a Wyoming water source gets contaminated.

### <u> Iudicial</u>

### **Executive**

### **Congressional**

Recovering America's Wildlife Act primed for another push (8/7/21)

Encouraged by the recent introduction of a Senate bill [S.2372], supporters of a plan to transform funding for non-game wildlife across the U.S. are poised to push for passage of the legislation this year.

### APPROPRIATIONS

### Democrat spending proposal would raise conservation cash through fossil fees (8/26/21)

Fossil fuel and mining companies would contribute billions toward conservation programs under a new proposal from Democrats on a key House committee.

### Return to top

### House Adopts \$3.5 Trillion Budget Blueprint Backed by Biden (8/24/21)

The U.S. House adopted a \$3.5 trillion budget resolution Tuesday after a White House pressure campaign and assurances from Speaker Nancy Pelosi helped unite fractious Democrats to move ahead on the core of President Joe Biden's economic agenda. The 220-212 vote puts to rest, for now, an intra-party rift between progressives and moderates that threatened to derail Pelosi's strategy for shepherding through the budget framework and the separate \$550 billion bipartisan infrastructure bill the House plans to pass by the end of next month.

### Now What: According to *E&E Daily* (8/23/21):

With the new fiscal year less than two months away, Congress has yet to finalize any fiscal 2022 spending bills and will soon need to turn to a stopgap funding legislation to keep agencies running. House lawmakers returning this week are focusing on the \$3.5 trillion budget reconciliation plan and have no action planned on appropriations legislation. The Senate isn't due back from summer recess until Sept. 13 and will be squarely focused on drawing up budget reconciliation legislation. The inevitable outcome is that **Congress will need to move a continuing resolution to fund the government at current levels to avert a shutdown when the new fiscal year begins Oct. 1.** It's expected to run until December, likely setting the stage for a late-year omnibus spending legislation. House Democrats did make some headway this summer, passing nine of their 12 spending bills, including the Energy-Water and Interior-EPA measures. They, however, did not move the Defense or Homeland Security bills, nor the Commerce-Justice-Science measure, which funds NOAA, NASA and other federal science agencies.

An AIS federal legislative table is posted on the web on the <u>www.westernais.org</u> website. Go to <u>https://www.westernais.org/regulations</u> and scroll all the way to the bottom

### TRAININGS, WEBINARS, CONFERENCES AND MEETINGS

### **Archived Materials**

The proceedings from the 2021 UERC symposium are now freely available to all via their website <u>https://www.uercportland.org/symposia</u>

**Events: Webinars, Trainings, Conferences and Meetings** 

### Watercraft Inspection Training

Level 1 Virtual Training - October 19-20, 2021 (2 days) 8am-noon PST; [Register Here] Level 1 Virtual Training - November 2-3, 2021 (2 days) 8am-noon PST; [Register Here]

Level 2 Virtual Training - October 19-21, 2021 (3 days) 8am-noon PST; [Register Here] Level 2 Virtual Training - November 2-4, 2021 (3 days) 8am-noon PST; [Register Here]

Virtual Training - January 11-13, 2022 (3 days) 9am - 5pm PST; [Register Here]

For more information go to <u>https://www.westernais.org/</u> (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.

### 2021

### September

### Western Regional Panel on ANS

Update: Following the results of the attendance survey, the Executive Committee of the Western Regional Panel on ANS has voted to call off the in-person Salt Lake City WRP Annual Meeting and transition to an all-virtual annual meeting this fall. The WRP will continue to provide top-notch virtual presentations that bring the latest in AIS information and research across the West. On top of this, there will be supplementary virtual social spaces to ensure that we are still making those important connections and fortifying a network of AIS professionals! September 14-18

NAISMA Monthly Webinars: September 15, 1 p.m. CT - <u>Flowering Rush Biology</u>, <u>Management</u>, and <u>Control</u>

Northwest Regional Invasive Species and Climate Change (NW RISCC) Network Virtual Symposium Registration

Join us for a convening of managers, scientists, and other practitioners to discuss the nexus of climate change, extreme events, and invasive species management in the Northwest region (e.g., Washington, Oregon, Idaho, British Columbia, and neighboring states and provinces). The objectives of the symposium are to:

(1) Build regional awareness of the Northwest Regional Invasive Species and Climate Change (NW RISCC) Network and its relationship and role to other invasive- and climate-related regional initiatives;

(2) Facilitate dialogue between those working at the nexus of climate change, extreme events, and invasive species; and

(3) Identify knowledge gaps and develop priorities for funding on-the-ground projects. The symposium will take place from 9:00am-12:00pm PT on both September 15th & 16th.

<u>Minnesota Aquatic Invasive Species Research Center Showcase</u> September 22, 2021; St. Paul, Minnesota

North American Invasive Species Management Association Annual Conference September 27-30, 2021; Missoula, Montana (with online options) The only invasive species management conference to... Bridge geographic divides between West and East, North and South, land and water, Connect science to action through research, policy, and outreach initiatives and opportunities across North America. cohosted by Montana Invasive Species Council. \*\*\*\*NOW VIRTUAL\*\*\*\*\* If you have already registered to attend in-person, please use this online form for changes to your registration.

### October

<u>Mississippi River Basin Panel Meeting</u> October 5-7, 2021; This year's coordination meeting will be held at Reelfoot Lake State Park near Tiptonville in northwest Tennessee. Location: Ellington Hall Auditorium, Reelfoot Lake State Park, 2595 Hwy 21 E Tiptonville, TN 38079

The Invasive Species Council of BC is pleased to host the <u>2021 Invasive Species Research</u> <u>Conference: Turning Science into Action</u> October 6-7, 2021

World Fisheries Congress 11-15 October, 2021 Adelaide, Australia

Save the date: WALPA is heading to the Tri-Cities this fall! WALPA is returning to the east side in 2021 to host its 34th annual conference in Richland from October 20-22. Please join us at the newly remodeled Holiday Inn Richland on the Columbia River. This year's theme, "It Takes a Village," was chosen to highlight collaborative efforts to understand, protect, and restore our lakes. Stay tuned for the call for abstracts, registration, and hotel reservation information. We are looking forward to seeing you in Richland!

### Pacific Northwest Citizen Science Summit:

The Washington State University Forest Health Watch Program, Western Invasives Network, The River Mile Network and Washington Invasive Species Council have partnered to convene the first-ever Pacific Northwest Citizen Science Summit. The overall objective of the summit is to connect citizen science practitioners and managers for the purpose of creating partnerships and synergies between projects. By working together, we will be more effective than working alone. The event will be held between 9:00 a.m. and 12:00 p.m. Pacific Standard Time on October 26th and October 27th, 2021 via Zoom webinar.

### November

### Alaska Invasive Species Workshop November 3-4, 2021; Anchorage, Alaska and virtual

AFS has changed the dates for the 151st <u>AFS Annual Meeting</u> in Baltimore to November 6-10, 2021, from the original date of August 8-12. Please note that this is a Saturday to Wednesday meeting schedule rather than the traditional Sunday to Thursday. This change is being made with the desire to safely host an in-person meeting and to celebrate our 150th anniversary, albeit one year late. The meeting will also include remote participation options and AFS will transition to a full virtual option should the COVID-19 situation make that the appropriate and safe choice. New deadlines will be provided soon for symposium and abstract submissions. Please check the meeting website for updates.

Valuing Water: Economics, Ecology, & Culture 41st International Symposium of the North American Lake Management Society November 15–18, 2021 • Oklahoma City, Oklahoma

<u>Innovations in Invasive Species Management Conference and Training</u> We welcome everyone back to the Gaylord Opryland Resort and Convention Center in Nashville, TN for the 4th annual 2021 Innovations in Invasive Species Conference. When: November 29th through December 2nd, 2021

### December

Northeast ANS Regional Panel Fall Meeting December 3, 2021 and December 8, 2021; Virtual Meeting

2022

### February

2022 Midwest Fish and Wildlife Conference, February 13-16, Des Moines IA

National Invasive Species Awareness Week February 28, 2022 – March 4, 2022

### April

April 18-22 ICAIS Oostende Belgium: The <u>International Conference on Aquatic Invasive</u> <u>Species (ICAIS</u>) 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. May

Mark your calendars for the <u>Joint Aquatic Sciences Meeting</u> 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

**TO UNSUBSCRIBE/SUBSCRIBE** to the *AIS NEWS* email <u>sphillips@psmfc.org</u>. *AIS NEWS* was compiled by Robyn Draheim and Stephen Phillips. Past issues of *AIS NEWS* can be found @ <u>http://www.westernais.org/</u> under the "News" tab.