



# Aquatic Invasive Species News

January 11, 2023

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## RECOMMENDED READING

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### [A hitchhiker's guide to floating marine debris \(1/6/23\)](#)

Invasive species are recognised as one of the greatest threats to marine biodiversity worldwide, second only to habitat loss, and cost the UK economy £120 million a year.

But the threat to UK waters could be reduced as pioneering research led by the Centre for Environment, Fisheries and Aquaculture Science (Cefas) and funded by Defra sheds new light on invasive species 'hitchhiking' across the sea on floating marine debris, such as plastics. In some cases, certain species are thought to have travelled from as far as the east coast of America, thousands of miles away.

By adapting a computer model originally designed to predict the distribution of oil following an oil spill, Cefas scientists were able to uncover the origin of floating marine debris and track how invasive species enter UK waters. [\[cont.\]](#)

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## PUBLIC COMMENT

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## NEW SPECIES SIGHTINGS

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Want to get more new species alerts?

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

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

California:

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*Herichthys carpintis* (Lowland Cichlid) was found in the San Gabriel drainage [[USGS NAS](#)]

*Potamogeton crispus* × *pusillus* (hybrid curly-leaved pondweed) has raised special interest in a marsh near Dutch Slough, west of Jersey Island Rd. Reason: Previously documented in 2018 [[USGS NAS](#)]

*Nelumbo lutea* (American lotus) was found in Echo Park Lake, Los Angeles [[USGS NAS](#)]

*Limnobium laevigatum* (West Indian spongeplant) was found in Egret Park, Los Angeles River [[USGS NAS](#)]

*Corbicula fluminea* (Asian clam) was found in Siskiyou Lake, CA [[USGS NAS](#)]

Colorado:

*Scardinius erythrophthalmus* (Rudd) was found in Kettle Creek, CO [[USGS NAS](#)]

*Corbicula fluminea* (Asian clam) was found in Coal Creek next to South Pubic Road in Lafayette, Colorado [[USGS NAS](#)]

Kansas:

*Eichhornia crassipes* (common water-hyacinth) was found in Eagle Lake Park, KS [[USGS NAS](#)]

Montana:

*Potamogeton crispus* (curly-leaf pondweed) was found in Haskill Creek at the Monegan Road culvert [[USGS NAS](#)]

Oregon:

*Aponogeton distachyos* (Cape pondweed) was found in Tualatin, OR [[USGS NAS](#)]

Texas:

*Piaractus orinoquensis* (pirapatinga) was found in a neighborhood retention pond in Denton [[USGS NAS](#)]

*Nymphoides cristata* (crested floating-heart) was found in Lower Brazos at Wetlands Park at Riverstone, TX [[USGS NAS](#)]

*Osteopilus septentrionalis* (Cuban Treefrog) was found in Lubbock, TX – Presumed failed introduction [[USGS NAS](#)]

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## WATCH LIST

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Green Crab:

- Alaska: Report your sightings via the [ADF&G Invasive Species Reporter](#) or by calling the Invasive Species Hotline: 877-INVASIV (877-468-2748). If you locate invasive green crab on Annette Islands Reserve, you can call 907-886-FISH to make a report.
- British Columbia: Take a photo, put it back where you found it, and email the information about where you saw it and when to: [AISPACIoFIC@dfp-mpo.gc.ca](mailto:AISPACIoFIC@dfp-mpo.gc.ca)

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- Washington: Take a photo, put it back where you found it, and report suspect crabs here <http://wdfw.wa.gov/greencrab>

[5 invasive pests to look out for in WA and how to report sightings](#)

[Destructive forest pest, the emerald ash borer, arrives in Oregon; public asked to report sightings](#)

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## DREISSENID MUSSELS

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[South Dakota Game, Fish & Parks Department Develops AIS Strategy \(12/20/22\)](#) The South Dakota Game Fish & Parks Department plans another aggressive campaign to slow down the spread of aquatic invasive species, focused on zebra mussels.

[Aquatic Invasive Species Driving Up Costs Of Boating In Some Parks \(12/22\)](#) Not all parks require boaters to buy an "aquatic invasive species" sticker, which helps fund efforts to keep non-native quagga and zebra mussels out of lakes and streams, but some states require you to pay for a sticker in addition to any permitting fees parks charge boaters (motorized and muscle-powered).

Rantala, H.M., Branstrator, D.K., Hirsch, J.K. et al. Simultaneous invasion decouples zebra mussels and water clarity. *Commun Biol* 5, 1405 (2022).  
<https://doi.org/10.1038/s42003-022-04355-z>

[\[Colorado\] Standley Lake Boating: what was lost \(12/26/22\)](#)

Many members of Standley Lake's boating community saw a huge aspect of their community taken away with the ban of trailered boats in 2019.

[Divers working to remove zebra mussel infestation at Longhorn Dam \(1/5/23\)](#) The gates at Longhorn Dam on Lady Bird Lake are being cleaned in the ongoing battle to keep zebra mussels from causing more damage to the mechanical systems at the gates.  
Related: [Lady Bird Lake lowered one foot to clean infestation of zebra mussels \(1/4/23\)](#)

[CPW to begin zebra mussel mitigation treatment at Highline Lake \(1/9/23\)](#)

"The next phase to remove zebra mussels from Highline Lake will be twofold," said State Park Manager Alan Martinez. "Our goal is to eliminate the mussels while protecting a quality warm water fishery that has taken decades to build."

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## BOAT INSPECTION/DECON

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[Utah to begin work on 10 projects to improve boating access in 2023 \(12/24/22\)](#)

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There were also many long lines related to parking or quagga mussel inspections during the year. Utah recreation agencies are looking to ease some of these problems as the calendar shifts to 2023.

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## BALLAST WATER/BIOFOULING

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[IMO establishes group to focus on ballast water topics \(12/21/22\)](#) Last IMO Committee, MEPC 79, took place from 12-16 December 2022 establishing a Ballast Water Review Group to consider a number of matters with regards to the Ballast Water Management Convention, among other issues.

Tobias Schwoerer, Aaron Martin, Ginny Fay, Erik R. Schoen, Michael Buntjer. 2023. Batten down the hatches: Opportunities to protect Alaska from biological invasions through watercraft trade and traffic. Marine Policy, Volume 148.  
<https://doi.org/10.1016/j.marpol.2022.105448>

[Rigid rules hamper necessary changes to BWMS \(12/28/22\)](#) Now that more ballast water management systems (BWMS) are in widespread use, it is becoming apparent subtle and sometimes radical changes are needed to type-approved BWMS to ensure optimal operation, but rigid rules are a hindrance, says Simplify Ballast founder Mark Riggio

[New Zealand, Australia Delay Cruise Ship Over Biofouling \(1/1/23\)](#)

For the second time in two weeks, a cruise ship has been refused port calls due to biofouling.

Related: [Fourth Cruise Hit with Biofouling as New Zealand and Industry Meet \(1/9/23\)](#)

[Time running out on ballast water compliance \(1/9/23\)](#)

With little more than 18 months to go until the Ballast Water Convention deadline, owners and operators who have yet to install systems or commission them properly must address the challenges relating to full compliance without delay, advises BIO-UV Group Maritime Division, BIO-SEA business director, Maxime Dedeurwaerder

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## MARINE

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[Dolphins delight with return to B.C. waters, but some see 'invasive species' \(12/25/22\)](#)

After 100 years of absence, large numbers of Pacific white-sided dolphins are back in the northern part of British Columbia's Salish Sea. But while their return is being greeted by some with delight, the head of a commercial fisheries group is dismayed by the appearance of what he calls an "invasive species," alongside increasing numbers of seals and sea lions.

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[The WDFW Nov/Dec European Green Crab Public Update is now available](#)

[Live European green crabs confiscated from seafood market; species remains prohibited in Washington \(12/29/22\)](#)

It was determined that the retail market had bought approximately 30 pounds of live green crabs from a distributor in Massachusetts with the intent of selling them for use in crab stock and soup. Marketed only as “green crabs”, the seller did not appear to know that they were in fact European green crabs (EGC) regulated by Washington state as a prohibited invasive species.

[Protestors claim N.J. wind farm project is killing whales, but a marine scientist says that's 'unlikely' \(1/10/23\)](#)

Over the weekend, a 30-foot humpback whale washed ashore in Atlantic City, its cause of death unknown. It was the third dead whale to appear on the Jersey Shore since December — fanning the flames of protestors who say wind farms are killing marine life.

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## AQUACULTURE

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[Washington tribe joins Cooke's fight for aquaculture on U.S. west coast \(12/19/22\)](#) The Jamestown S'Klallam Tribe — through its company Salish Fish Ltd. — is a partner in Cooke's operation in Washington state. The tribe had also applied in 2021 for a lease to operate sea cages in Port Angeles harbour to grow native fish. They say they never received a decision on that lease application and Franz's order now puts that plan in jeopardy.

[Fish-farm operator appeals Washington state shutdown order \(12/21/22\)](#) Cooke Aquaculture has filed an appeal against Washington state's decision to end its leases for fish-farming using net pens in state waters.

[\[Opinion\] Farmed salmon is critical for Canada's food security \(12/24/22\)](#)

The salmon served on most Canadian plates comes from farms, not from the wild, and this takes the pressure off wild stocks.

[\[Opinion\] Should offshore fish farms play a role in US seafood industry? \(12/28/22\)](#)

While the bill correctly orders research on offshore fish farming, the SEAfood Act is problematic in that it requires the approval of, and provides taxpayer money to, large-scale pilot fish farms in our oceans before consulting studies.

[Pushback: Tribes and Companies Defend Fish Farming in Northwest Waters \(12/26/22\)](#)

The Jamestown S'Klallam Tribe has also filed suit against the DNR to block Commissioner Franz's executive order.

[Heading into 2023, Aquaculture on the coast faces a murky future \(12/31/22\)](#)

All eyes are focused on the DFO's next move in the transition process

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[State Superior Court Judge Extends Deadline For Cooke Aquaculture To Close Operations \(1/7/22\)](#) Cooke said they can now remove the fish on their original harvest schedule and remove their equipment without subjecting employees to unnecessary risk.

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## FRESHWATER

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[How wildlife experts battled the Chesapeake Bay's 'menace in the marsh' \(12/26/22\)](#)  
A two-decade effort succeeded in ridding the Delmarva Peninsula of the nutria, a pesky rodent that ruins marsh

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## FISH

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[John Palmore leads project to deter carp with sound \(1/1/23\)](#)

The assistant professor has received \$340,000 from the Army Corps of Engineers' Engineer Research and Development Center to create new tools using sound waves to control invasive species of Asian carp.

Kageyama, Stacie A., Matthew R. Hoogland, Tariq Tajjioui, Theresa M. Schreier, Richard A. Erickson, and Christopher M. Merkes. 2022. "Validation of a Portable eDNA Detection Kit for Invasive Carps" *Fishes* 7, no. 6: 363.  
<https://doi.org/10.3390/fishes7060363>

Pentyliuk, N., Schmidt, B., Poesch, M. S., & Green, S. J. (2022). [Recreational angler reporting as a tool for tracking the distribution of invasive Prussian carp \(\*Carassius gibelio\*\)](#). *Conservation Science and Practice*, e12850.

Whitledge, G. W., Kroboth, P. T., Chapman, D. C., Phelps, Q. E., Sleeper, W., Bailey, J., & Jenkins, J. A. (2022). [Establishment of invasive Black Carp \(\*Mylopharyngodon piceus\*\) in the Mississippi River basin: identifying sources and year classes contributing to recruitment](#). *Biological Invasions*, 24(12), 3885-3904. [ \$ ]

Quintana, A., Marcos, S., Malpica-Cruz, L., Tamayo, L., Canto Noh, J. Á., Fernández-Rivera Melo, F., & Fulton, S. (2022). [Socioeconomic dilemmas of commercial markets for invasive species: lessons from lionfish in Mexico](#). *ICES Journal of Marine Science*.

[Electric barrier to keep silver, bighead carp from Great Lakes allows in other invaders, study says \(1/9/23\)](#) The electric barrier in the Chicago River meant to keep invasive silver and bighead carp from reaching the Great Lakes does not block other types of invasive species, according to a recent study.

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## AQUATIC PLANTS

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## CLIMATE CHANGE

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[Scientists: Atmospheric carbon might turn lakes more acidic \(12/19/22\)](#) Scientists are building a sensor network to spot Lake Huron water chemistry trends. It's a first step toward a hoped-for system that would track carbon dioxide and pH in all five Great Lakes over multiple years, said project co-leader Reagan Errera of the National Oceanic and Atmospheric Administration.

[The hidden underwater forests that could help tackle the climate crisis \(1/2/23\)](#)  
Kelp absorbs carbon dioxide and has high nutritional value, but it is under threat from rising temperatures, pollution and invasive species

[Researchers identify potential climate havens for vulnerable plants and animals \(1/5/23\)](#) The researchers are identifying places that are more buffered from the effects of global warming than surrounding areas. Called climate change refugia, these specific sites can be prioritized for conservation or management. "So it could be protection from development," Morelli says. "It could be treating invasive species."

[Climate change is forcing wildlife to move north – and they're bringing diseases with them \(1/9/23\)](#) More interaction between humans and wildlife like ticks mean rise in risk of spreading disease

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## OUTREACH AND EDUCATION

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Elizabeth J. Golebie & Carena J. van Riper (2022) Enhancing Aquatic Invasive Species Outreach Through Values-framed Messages, Environmental Communication, [DOI: 10.1080/17524032.2022.2156574](#)

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## OTHER

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['Super' mosquitoes have now mutated to withstand insecticides, scientists say \(12/21/22\)](#) "Super" mosquitoes have evolved to withstand insecticides, according to

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new research -- and the most "sobering" finding is the high rate in which a species known for carrying disease has developed mutations.

Lampert, Adam, and Liebhold, Andrew M. 2022. "Optimizing the Use of Suppression Zones for Containment of Invasive Species." *Ecological Applications* e2797.  
<https://doi.org/10.1002/eap.2797>

[Invasive species essentially a 'time bomb' if established in Saskatchewan \(12/31/22\)](#)  
An invasive species could be one of the worst hitchhikers that Saskatchewan residents pick up as they travel in and out of the province, according to an insect and disease expert.

Laura G. Tateosian, Ariel Saffer, Chelsey Walden-Schreiner, Makiko Shukunobe. 2023. Plant pest invasions, as seen through news and social media. *Computers, Environment and Urban Systems*, Volume 100. ISSN 0198-9715 [ \$ ]  
<https://doi.org/10.1016/j.compenvurbsys.2022.101922>

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## JOBS/GRANTS

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### Jobs

#### [BC Conservation Officer Service - STO 15R - Aquatic Invasive Species Inspectors](#)

**Closes 1/25/23**

The Province of British Columbia is entering the ninth year of its Invasive Mussel Defence Program, with a particular focus on boater education and inspection along the Eastern and Southern entry points into the Province.

These positions will form BC's Invasive Mussel Defence Program, with the aim to intercept watercraft carrying invasive zebra and quagga mussels from entering the province. Central components of the job will be to deliver public education and outreach material at the inspection stations, conduct mandatory roadside boat inspections, and to deliver training on how to "Clean, Drain, and Dry" watercraft to other parts of government and stakeholders. These responsibilities require applicants to be comfortable dealing with various members of the public.

#### [Invasive Species Field Associate I - Pacific Coop Studies Unit Oahu, Hawaii](#)

Regular, Full-Time, RCUH Non-Civil Service position with the Pacific Cooperative Studies Unit (PCSU), working for an island-based Invasive Species Committee, located in Kailua, Hawai'i. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

Monthly Salary: \$3,000/Mon.

Duties: Conducts field operations to implement established action plans, targeting invasive alien plant and animal species for control or eradication. Fieldwork involves reconnaissance, surveys, and mechanical/chemical removal for invasive alien species in

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natural, urban, and suburban areas. Fieldwork includes off trail areas where exposure to extreme hot and cold temperatures, heavy rainfall, mosquitoes, and difficult terrain is common. Work requires moving through areas where beehives and foraging bees occur. Implements protocol to prevent seed dispersal, follows decontamination protocols, and conducts all operations according to accepted safety standards and established protocols. Fieldwork requires the ability to drive project vehicles both on and off road, work in and around helicopters, and handle pesticides. Keeps accurate and detailed records of treatment and control work. Operates a Global Positioning System (GPS) and downloads GPS units. Inputs and updates data and produces maps and other materials to guide daily field activities. Assists with maintenance of equipment/field gear, vehicles, and project baseyard, including proper storage of herbicides. Assists with public relations activities and events and attains favorable public relations with property owners and other members of the public. Contributes to creating and preserving a positive work environment and serves as a valued member of the field team. Position requires a flexible work schedule including early morning and late night hours and occasional weekends. Regular overnight travel to other field sites, which may involve camping for up to four (4) nights, may be required. Must not be acrophobic (afraid of heights). Progression from an Invasive Species Field Associate I to Invasive Species Field Associate II may be possible upon demonstrated ability to meet established performance factors and project specific competencies, including satisfactory completion of all required trainings.

#### Idaho, Technician 3- Invasive Species, Post Falls, ID

Full Time \$37,502.40 Annually.

**Closing 1/31/2023.**

This position plans, organizes, and coordinates technical activities for multiple aquatic noxious weeds and invasive species projects and programs; estimates equipment, materials, and manpower; establishes schedules and priorities and evaluates equipment and materials for adequacy, availability, and serviceability. This position also serves as regional/department expert for multimedia sampling, maintenance, operation and calibration of scientific monitoring equipment for multiple media programs and projects; evaluate permits for monitoring requirements; perform data research and analysis; perform related work.

#### Biotech Crew Member (NPS Invasive Species Early Detection)

Great Basin Institute Ashland, Oregon, United States (On-Site)

The Great Basin Institute is working cooperatively with the National Park Service Klamath Network (KLMN) Inventory & Monitoring (I&M) program to recruit a Biotech Crew Member for invasive species early detection. The overall objective is to perform surveys of park roads and trails and make observations of invasive species within the Klamath Network parks: Crater Lake National Park (Crater Lake), Lava Beds National Monument (Lava Beds), Lassen Volcanic National Monument (Lassen), Oregon Caves National Monument and Reserve (Oregon Caves), Redwood National and State Parks (Redwood), and Whiskeytown National Recreation Area (Whiskeytown), located throughout northern California and southern Oregon. Data collected will contribute to a multi year dataset aimed at detecting status and trends in park invasive species and is

intended to provide decision-makers with location data of prioritized invasive species. Training and oversight will be provided for all duties.

### Natural Resources Technician (Invasive Species Management) Jefferson County Colorado

Jefferson County Open Space is currently hiring limited-term Natural Resources Technicians to assist with our invasive species management program. The Natural Resources Technicians assist with invasive species management on JCOS Parks and properties by safely operating light and heavy equipment, and hand tools during implementation of invasive species management projects; mixing, loading, and applying herbicides using motorized and/or hand-held equipment; following requirements and regulations of local, county, state, and federal weed control programs, including all requirements relative to pesticide storage, mixing, application, and disposal; collecting vegetation field data; and, working effectively as part of a team in challenging conditions and remote locations. These are limited-term positions with projected start and end dates of April 11th and October 27th, 2023. These positions are eligible for personal medical coverage the first of the month after you start.

### Grants

The Washington State Recreation and Conservation Office, on behalf of the Washington Department of Fish and Wildlife, is soliciting proposals for interagency agreement funding to support response to the ongoing [European green crab emergency](#). Please visit <https://rco.wa.gov/about-us/employment-and-contracts/> for more information about the available funding for public agencies. **(Rolling deadline until funds fully allocated)** For more information on European green crab and the state response, please visit <https://wdfw.wa.gov/species-habitats/invasive/carcinus-maenas> and <https://wdfw.wa.gov/news/emergency-measures-deployed-control-invasive-european-green-crabs-washington-waters>

The Montana Invasive Species Council is accepting grant applications to fund Aquatic invasive Species projects. The grant funds for this period are approximately \$250,722. Up to \$50,000 is available per project to Montana communities; local, state, tribal, or other government entities within the state; and to Montana-based non-governmental entities.

**Closes January 19, 2023.**

[Montana AIS Grant Program Guidelines and application instructions can be found here.](#)

USDA-FS-BIL-R9-INVASIVES-PROJECTS [Related Opportunities]  
[R9 BIL High-Priority Regional Invasive Species Projects \(Non-Federal Lands\)](#)  
[Department of Agriculture](#)

Forest Service

**Closes 2/3/23**

As part of the Bipartisan Infrastructure Law's (BIL) broader ecosystem restoration objective, the non-federal lands portion of the invasive species provision enables the USDA-Forest Service, States, and other agencies to strategically sustain the health of

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forest ecosystems or tree species with high ecological value by taking stronger action in the early phases of the invasion curve at regional or sub-regional scales and at points of entry. Specifically, we aim to work collaboratively to scale-up the implementation of management actions in the field for the prevention of introductions or spread, prevention of damage, early detection of introductions, rapid response and eradication of invasive forest insects, worms, pathogens, and plants. It is expected that new projects will be complementary to existing cooperative and federal forest health protection programs and will sustain high value forest ecosystems or tree species (see, e.g., multi-state priority areas identified in State Forest Action Plans (SFAPs) or Northeast-Midwest State Foresters Alliance, Forest Health Committee (NMSFA FHC) 2021 priority needs document).

[John A. Knauss Marine Policy Fellowship Program, Coastal Management Fellowship Program & NMFS-SG Fellowship](#)

**Applications are due by February 16, 2023 5:00 PM PT.**

California Sea Grant is now accepting applications for three fellowship programs: 2024 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 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.

To apply, please visit the [California Sea Grant website](#) (or your local Sea Grant program if not in California).

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## LEGISLATION

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### Advocacy

### State/Provincial

[Critics say South Dakota governor and Legislature falling short in preventing spread of invasive zebra mussels \(1/4/23\)](#) Now, western neighboring states such as Wyoming and Montana are sounding the alarm on aquatic invasive species (AIS) and calling out South Dakota's relative lack of resources and staffing to carry out boat inspections, decontamination, water testing and other preventative methods. Some worry that South Dakota has been too slow to contain the spread of adult zebra mussels and juveniles known as veligers, free-swimming larvae that can spread through water currents. Female zebra mussels can release as many as 1 million eggs per year, according to the U.S. Fish and Wildlife Service.

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## Federal: Executive

### [D.C. Wants to Move Beyond COVID-19 Telework. What's Taking The Federal Government So Long? \(1/11/23\)](#)

...Mayor Muriel Bowser recently called on the Biden administration to get feds back into offices or change its relationship with property in downtown D.C....

## Federal: Congressional

## Federal: Appropriations

### [McCarthy's Deal to Secure the House Speakership Puts Agencies at Risk of Severe Budget Cuts \(1/9/23\)](#)

House Republicans have agreed to only consider spending bills for fiscal 2024 that would cut domestic agency funding across the board by more than 20%, already sparking concerns of a shutdown when current funding expires this fall. House Speaker Kevin McCarthy, R-Calif., made the agreement in his bid to win over 20 defectors within his party who for days prevented him from obtaining the position to lead the chamber in the 118th Congress. While not formally part of the rules package that will govern the House for the next two years, those negotiating the deal have said it will ensure the House caps the next set of appropriations bills at fiscal 2022 levels. Republicans quickly made clear they are not looking to slash Pentagon spending, creating the potential for onerous reductions at non-defense agencies.

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## EVENTS

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### Archived Events:

#### [Recordings Available – 2022 Island Biosecurity Workshop:](#)

Held on December 6-7, 2022, this workshop was an opportunity to connect practitioners on islands and share knowledge about biosecurity practices. The agenda and recordings for each day are now available online.

#### Northeast Aquatic Plant Management Society's Autumn Webinar Series:

Webinar Part 1 from 12/5/22: <https://www.neapms.org/news/autumn-webinar-day-1>

Webinar Part 2 from 12/12/22: <https://www.neapms.org/news/autumn-webinar-day-2>

### Ongoing Training Opportunities:

Watercraft Inspection Training

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### Virtual:

- Virtual WIT or Level 1 – Inspector Training (2 days - 8 am – Noon PST)  
<https://www.westernais.org/level-1-inspector-training>
- WIT or Level 2 – Inspector & Decon Training (3 days – 8 am – Noon PST)  
3 classes available in 2023  
<https://www.westernais.org/level-2>
- WIT or Level 3 – Trainer Training (3 days- 9 am – 4pm PST)  
3 classes available in 2023  
<https://www.westernais.org/le>

### In-Person:

May 2-4 – North Dakota

Classes do fill up quickly and registrations will close, so if you are planning to attend or send students, it is recommended to get registrations in soon.

For more information go to <https://www.westernais.org/> (under the “Training” tab) or contact Quagga D @ (702)236-3814 or [quaggadee@cox.net](mailto:quaggadee@cox.net)

### [DOI Invasive Species Training Opportunities Spreadsheet](#)

### [PNW IPC Citizen Science Trainings](#)

[InvasivesU – NAISMA](#) - InvasivesU is NAISMA’s exclusive online learning library intended to provide professionals, students, and interested individuals with the knowledge and tools necessary to prevent and manage invasive species in North America. NAISMA experts have thoughtfully curated and developed this content, especially for you!

### [Calendar of Events](#)

#### **January**

[Aquatic Nuisance Species Task Force National Meeting](#) January 11 – 12, 2023; Falls Church, Virginia with Virtual Option

NAISMA Webinar: January 18, 2023 @ 1:00 pm - 2:00 pm CST - [Miller Creek Watershed Restoration: The Value of Partnership During a Pandemic](#)

[Invasive Mussel Collaborative Webinar: Lessons learned and alternative management](#)  
January 19, 2:00 p.m. - 3:30 p.m. Eastern (1:00-2:30 p.m. Central, 12:00-1:30 p.m. Mountain, 11:00 a.m.-12:30 p.m. Pacific)

[Ballast Water Webinar Week](#): a series of webinars in which experts will discuss the results of MEPC 79, relay their experiences of BWTS installations, commissioning testing and advise on preparing for an inspection

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- [1/31 Vessel operators' new and continuing BWMS installation and testing obligations](#)
- [2/1 Lessons learned from BWMS operations](#)
- [2/2 The future of ballast water](#)

## February

Lake County Water Resources Department in California is taking steps to prepare and respond to a potential discovery of dreissenid mussels. An upcoming webinar will share information about the invasive mussel rapid response and containment transition project, which is intended to improve the current Clear Lake aquatic invasive species prevention program while preparing for an invasive mussel introduction to Clear Lake or neighboring lakes in Lake County. The webinar will share the goals of the project, the approach that will be taken to achieve those goals, the timeline, and the products. A containment and transition plan, feasibility analysis for permanent watercraft decontamination stations, and assessment of regulations and ordinances are three key outcomes.

Information about the consequences to Clear Lake and neighboring lakes from a mussel invasion will be shared, including potential impacts to county revenue and property values, effects on native fish and wildlife, and increased costs and maintenance for all water suppliers and self-supplied water users. Preparing for an invasion is intended to mitigate effects to the local economy and natural resources. **Anyone with an interest in preparedness and response discussions is welcome** to attend this webinar on February 2, 2023. To register for the webinar: <https://www.clearlakemusselprevention.org/get-involved>; Information about the project and a recording of the webinar can be found at <https://www.clearlakemusselprevention.org>.

The virtual [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. Mark your calendars for the 2023 Invasive Species Forum, taking place from February 7 to 9.

[Northeast Regional Invasive Species & Climate Change \(RISCC\) Symposium](#) February 14-15, 2023; Virtual meeting

Mississippi River Science Forum, February 15-16, 2023, hosted by the U.S. Geological Survey! This meeting will be virtual, and a more formal invitation and agenda will be sent out at a later date. The Mississippi River is a multi-faceted, complex resource in the United States that needs a comprehensive and coordinated plan to address science and management needs. For any questions, please send to this email address: [mailto:usgs-Mississippi\\_River@doimspp.onmicrosoft.com](mailto:usgs-Mississippi_River@doimspp.onmicrosoft.com).

## March

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Registration is now open for the first annual [Western AIS \(Aquatic Invasive Species\) Short Course!](#) This annual AIS Short Course provides a vital bridge between landowners, aquatics professionals, researchers, and aquatics contractors. We are pleased to announce that our inaugural course will be held at the Holiday Inn Missoula Downtown in Missoula, Montana on March 7th - 8th, 2023. Breakfast and lunch will be provided on both days, as well as complimentary swag with each guest registration.

### April

[Urban Ecosystem Research Consortium \(UERC\) 2023 Symposium](#) 21st Annual Urban Ecology Symposium 2023. Hosted by the Urban Ecosystem Research Consortium. Tuesday, April 4, 2023 Portland, Oregon

### May

[11th International Conference on Marine Bioinvasions](#) May 15 – 19, 2023; Baltimore, Maryland

### June

### July

### August

### September

[Association of Fish & Wildlife Agencies 113th Annual Meeting](#) September 24-27, 2023; Calgary, Alberta

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