

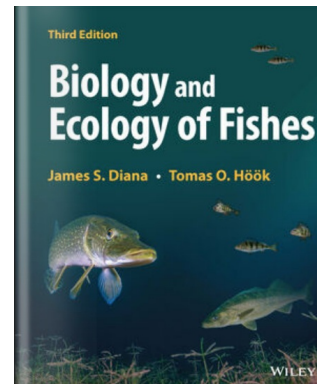
July 2023

Sea Grant Releases New Textbook: Biology and Ecology of Fishes

Illinois-Indiana Sea Grant and Michigan Sea Grant recently released the third edition of the *Biology and Ecology of Fishes* textbook. This textbook provides fundamental lessons on aquatic life, ecosystems, and multidisciplinary fish studies and is crucial for aspiring fish biologists and fishery scientists. "New chapters and content include additional information about emerging issues and stressors facing fish populations and communities, such as climate change, invasive species, and effects of fisheries harvest," said co-author Tomas O. Höök.

Biology and Ecology of Fishes provides an essential overview for advanced undergraduate and graduate students studying fish ecology or fisheries biology. It can also serve as a reference for researchers and professionals in fish ecology, population management, and related fields.

[Learn more about the book](#)



NOAA Seeks Public Comment to Inform More Equitable Climate Service Delivery

NOAA has released a Request for Information (RFI) that seeks feedback on its delivery of climate data, information, science and tools, or "climate services," to help ensure that this vital information reaches all U.S. communities in a way that is accessible, inclusive and usable.

The RFI also focuses on how NOAA can increase capacity and access to climate services for climate preparedness, resilience and adaptation planning in historically underserved communities — including tribal and

Indigenous communities. The RFI will also address how the agency can better include indigenous and local knowledge in its climate services.

[Read the full story and submit comments](#)

Climate Ready Workforce Funding Opportunity

Sea Grant and the NOAA Climate Program Office, with support from the NOAA Office for Coastal Management, seek to establish programs aimed at placing people across the country into good jobs that advance climate resilience and assisting employers in developing a 21st century workforce that is climate literate, informed by climate resilience, and skilled at addressing consequent challenges.



Approximately \$50M in Inflation Reduction Act funding is available to support projects ranging in size from \$500,000 to \$10M.

Letters of Intent due November 30, 2023
Full applications due February 13, 2024

[More Information, including webinar recordings and resilience resources](#)

Image: Underground specialists work to install new septic system in coastal Virginia. (Virginia Sea Grant)

NOAA Announces Funding Opportunities Under Inflation Reduction Act

In addition to the Climate Ready Workforce Initiative funding opportunity, NOAA has recently announced several other funding opportunities under the Inflation Reduction Act as part of its Climate Ready Coasts and Communities Initiative.

The Climate Resilience Regional Challenge will fund a new \$575 million competitive grant program that will invest in holistic, collaborative approaches to coastal resilience at regional scales. Funds will support climate resilience and adaptation actions that are appropriate to the plan, place, and people, and supported by NOAA technical assistance.

The Ocean-based Climate Resilience Accelerators funding opportunity will focus on partnering with and funding eligible organizations to develop business accelerators that provide specific programming and opportunities for small businesses and entrepreneurs aligned with identified marine-based climate resilience theme areas.

[Read more about NOAA's investments](#)

[Current Funding Opportunities](#)



Sea Grant Supported Students Present Work at Two Symposia Happening This Week

The 2023 NMFS-Sea Grant Fellowship Symposium is happening concurrently with the 2023 American Fisheries Society meeting in Silver Spring, Maryland this week. The 2022 fellows will present their research. The NMFS-Sea Grant Fellowship supports graduate level students working on Population and Ecosystem Dynamics and Marine Resource Economics. Learn more about the 2022 fellows and the [NMFS-Sea Grant Fellowship Program](#).

The 2023 Community Engaged Internship students will also present their summer projects during a virtual symposium this week. Sea Grant's CEI program supports undergraduate students for paid 10-week experiences that connect the science-based work of Sea Grant and community interests. Learn more about the [CEI program for undergraduate students](#).

Sea Grant Professionals Win Awards



Anoushka Concepcion, Connecticut Sea Grant associate extension educator for marine aquaculture, has been chosen for the Industry Impact



Sea Grant's Sharon Moen won the

Award of the [World Aquaculture Society](#) for 2022.

[Read more](#)

2023 Communications Service Award from the National Sea Grant Communicators Network in a virtual ceremony last week.

[Read more](#)

Oregon Sea Grant Scientists and Educators Connect Students to Gray Whale Ecology

"Students as Scientists: Using Immersive Experiences and Near-Peer Mentoring to Build STEM Identity and Community" was recently published in Current, the Journal of Marine Education. Authors Leigh Torres, Lisa Hildebrand, and Tracy Crews explain their work with Journey for Aspiring Students Pursuing Ecological Research (JASPER) program run by Oregon State University's Marine Mammal Institute to provide young science enthusiasts from rural communities firsthand experience with science.

[Read the Article](#)

[Browse the Sea Grant Collection](#)

Catch up with 2023 Knauss Fellows

Logan Kline is a Science Communication Knauss Fellow in the NOAA Ocean Exploration Office. Logan shares her experience on the [NOAA Seascape Alaska 1: Aleutian Deepwater Mapping Expedition](#) on the [Knauss Blog](#).

Celina Harris, Domestic Engagement to the Ocean Decade Knauss Fellow in the NOAA Oceanic and Atmospheric Research Office introduces readers to the [Ocean Decade Game](#).



In Pictures: July 2023, Sea Grant-Affiliated Places



David Cancino, an educator with Oregon Sea Grant, shows a child a crab during marine science day at the [Hatfield Marine Science Center](#) in Newport on April 8, 2023. (photo by Trav Williams of Broken Banjo Photography)



Wisconsin Sea Grant and [Aquatic Sciences Center](#) Scholar Jessica Alcorn works in the lab processing samples.

NOAA Releases Tribal Consultation Handbook and Indigenous Knowledge Guidance documents

In November 2021, NOAA began the process of consulting with Tribes and Indigenous communities on an updated draft of the NOAA Tribal Consultation Handbook, NAO, and IK guidance in response to President Biden's Executive Order 13175. NOAA received valuable input from a number of tribes and incorporated the suggestions into these final documents. These documents will serve as a reference and the vital foundation of our work to build and strengthen our relationships with Tribes, Alaska Natives, and Native Hawaiian and Pacific Islanders.

[NOAA Tribal Resources and Updates](#)

Funding and Career Opportunities

[Sea Grant Career Opportunities](#) Sea Grant has several job openings across the country, including positions in Georgia, Louisiana, Minnesota, New Hampshire, New Jersey, New York, South Carolina, Virginia, and Washington.

[The Bureau of Indian Affairs Branch of Tribal Climate Resilience \(TCR\)](#) recently announced their FY2023 annual awards solicitation. This year, TCR expects to award approximately \$120 million to Tribes and authorized Tribal organizations to increase climate adaptation and resilience capacity and support related Tribal planning and implementation efforts. This is by far the largest amount of annual funding made available in the history of the Bureau of Indian Affairs' Tribal Climate Annual Awards Program. Application window closes October 13, 2023.

[NOAA's Climate Program Office seeks FY24 proposals to advance climate science, resilience](#)

This year's notice of funding opportunity consists of six competitions to advance understanding of Earth's climate system through interdisciplinary, integrated scientific research. The goal is to boost society's ability to understand, plan for, and respond to climate variability as well as extreme weather, water, and climate events caused by climate change.

[NOAA's Ocean Acidification Program Mini-Grant Opportunity](#)

The NOAA Ocean Acidification Program (OAP) is pleased to announce the launch of the FY24 Education Mini-grant Program! The principal objective of OAP's Education Mini-grant Program is to provide federal financial assistance to develop ocean and coastal education tools and programs in underserved and/or Indigenous communities or Tribes. To learn more about this federal funded opportunity, [see the Notice of Funding Opportunity here](#).

A webinar outlining required proposal elements and the review process will take place at 5 pm EST on Monday, July 10th, 2023. This will be recorded and posted to OAP's website for those who are unable to attend. [Register here](#). Letters of Intent (LOIs) are strongly encouraged, and if submitted must be received by 11:59 pm EST on Friday, September 15th, 2023. Letters of intent are recommended so staff can assist applicants through the federal application process. Full proposals must be received by 11:59 pm on Friday, February 23rd, 2024.

Connections and Partner Updates

[Bring This Coastal Flood Mapping Training to Your Location](#)

Learn technical skills to address the nation's increase in damaging and costly coastal flood events by hosting NOAA's Coastal Inundation Mapping course at your location. This two-day GIS-based training equips you with baseline skills for mapping coastal flooding. Earn 16 hours of continuing education credits while engaging in hands-on exercises to gain practical experience. Don't miss this opportunity to learn how to map and determine impacts of sea level rise and coastal flooding.

[NOAA Ocean Acidification Program Listening Sessions for Educators](#)

NOAA's Ocean Acidification Program is asking educators to share their needs to support ocean literacy and ocean acidification. They are hosting listening sessions and interested parties can sign up at https://bit.ly/OA_listeningessions

Grant

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