



at the University of Maine

Maine Sea Grant

Marine Science for Maine People

Program Guide 2018–2019



The Maine Sea Grant College Program at the University of Maine, sponsored by the National Oceanic and Atmospheric Administration (NOAA) and the State of Maine, is part of a network of 33 NOAA Sea Grant programs throughout the coastal and Great Lakes states.



Mission

Since 1971, Maine Sea Grant has promoted science and education for the sustainable development, management, and stewardship of Maine's marine and coastal resources. We continue this mission today by supporting research, working with coastal communities, and educating students of all ages.

Sea Grant Leadership & Administration

We are based at the University of Maine, the designated "Sea Grant College" for the state. Administrative and support staff work out of the campus office or from coastal locations.

Gayle Zydlewski
Director

Lynn Wardwell
Fiscal Officer

Kathy Villarreal
Administrative Assistant

Beth Bisson
Associate Director

Catherine Schmitt
Communications Director

Jenny Peters
Information Technology Coordinator

Kathlyn Tenga-González
Senior Designer

Communications

The Communications Team works with staff and funded researchers to facilitate the transfer of science-based information about the coast and oceans to various audiences. Recent and current efforts include:

- Coastal Conversations on WERU 89.9 FM, 4th Friday of each month
- Maine Seafood Guide
- Stories on timely subjects @ seagrant.umaine.edu
- Publication partnerships with *Fishermen's Voice*, *Maine Boats, Homes & Harbors*, and *The Working Waterfront*
- Science communication presentations and training
- Penobscot River Watershed Habitat Blueprint (with NOAA and The Nature Conservancy)
- *The Catch: Writings from Downeast Maine*, a literary journal

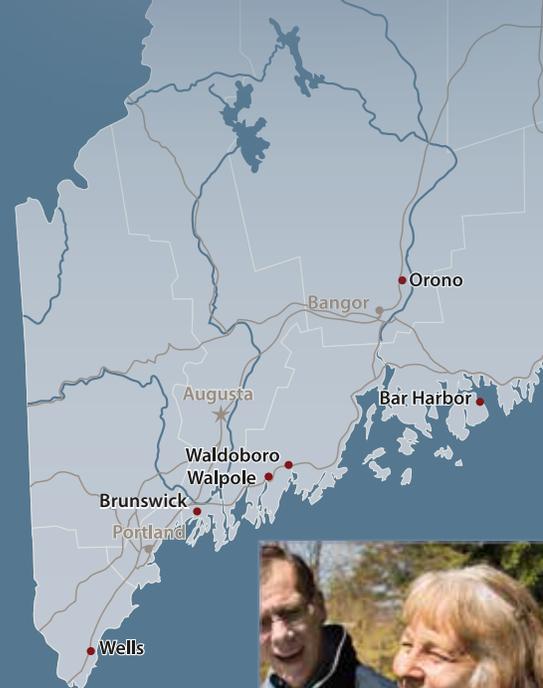
Education & Workforce Development

Sea Grant education and professional training programs help recruit and retain a workforce skilled in disciplines critical to the ecological health, economic vitality, and resilience of Maine's coastal communities and ocean resources. Our research and program development funding criteria favor meaningful involvement of students, and our education, extension, and citizen science programs engage people of all ages in research and stewardship. Other opportunities for students include graduate student fellowships, an undergraduate scholarship in marine science, and professional internships and volunteering.



Extension

Members of the Marine Extension Team (MET), a partnership between Sea Grant and University of Maine Cooperative Extension, are based in coastal communities from Wells to Eastport. They serve as a link between coastal communities and the research and policy that affects them. While team members have their own expertise, focus areas, and programs, they often work together on priority issues.





Chris Bartlett

Eastport Port Authority, Eastport

- fisheries and finfish aquaculture issues
- alternative energy siting and evaluation
- student engagement in research and monitoring



Natalie Springuel

College of the Atlantic, Bar Harbor

- working waterfront and coastal access initiatives
- sustainable tourism development
- Downeast Fisheries Trail



Esperanza Stancioff

Cooperative Extension Knox-Lincoln County, Waldoboro

- climate change education, outreach, and research
- Maine Climate News
- Signs of the Seasons: A New England Phenology Program



Keri Kaczor

Alliance for Maine's Marine Economy, Waldoboro

- infrastructure investments
- business development and technology transfer
- workforce development



Dana Morse

Darling Marine Center, Walpole

- production of farmed shellfish and seaweed
- technology transfer to the seafood industry
- tourism and the seafood industry



Meagan Sims

Cooperative Extension Knox-Lincoln County, Waldoboro

- Maine Healthy Beaches Program
- water quality technical support and training
- building local capacity to address pollution



Kristen Grant

Wells National Estuarine Research Reserve, Wells

- community planning and development, coastal hazards
- working waterfronts and coastal access initiatives
- Southern Maine Volunteer Beach Profile Monitoring Program



Beth Bisson

Brunswick

- extension program leadership
- citizen science and workforce development
- marine invasive species



Gayle Zydlewski

University of Maine, Orono

- Maine Sea Grant leadership
- fish conservation biology
- building sustainable coastal relationships

A diverse **Policy Advisory Committee** informs program direction and strategic planning.

Paul Dest

Wells National Estuarine Research Reserve

Paul Dobbins

Ocean Approved LLC

Susan Farady

University of New England

Don Hudson

Chewonki Foundation

Nathan Johnson

Ocean Renewable Power Co.

Alvion Kimball

DownEast & Acadia Regional Tourism

Walter Kumiega

Marine Resources Committee

Rich Langton

NOAA Northeast Fisheries Science Center

Kathleen Leyden

Maine Coastal Program

Joyce Maker

Marine Resources Committee

Pamela Parker

Department of Environmental Protection

Kristan Porter

F/V Whitney and Ashley

Jon Prichard

UMaine Cooperative Extension

Cathy Ramsdell

Friends of Casco Bay/Casco Baykeeper

Dwayne Shaw

Downeast Salmon Federation

Dianne Tilton

Downeast Institute

Rebecca Van Beneden

UMaine School of Marine Sciences

Kody Varahramyan

UMaine Vice President for Research

Steve Von Vogt

Maine Composites Alliance

Carl Wilson

Dept. of Marine Resources



Research

Maine Sea Grant supports scientific research that is relevant to the issues and needs of coastal communities in Maine and the northern Gulf of Maine region. Research in our program is accomplished via competitive awards from Maine Sea Grant research funds and national solicitations; program development grants; and research activities of the Marine Extension Team.

Research Awards 2018–2020

Amanda Klemmer, University of Maine

Reconciling multiple stakeholders in rockweed habitats, \$149,953

Douglas Rasher, Bigelow Laboratory

Maine's kelp forests, \$149,980

Michele LaVigne, Bowdoin College

Developing and applying historical coastal pH baselines, \$149,971

Richard Wahle, University of Maine

American lobster response to ocean warming and acidification, \$200,000

Brian Beal, Downeast Institute

Large-scale culture methods for blue mussel seed production, \$249,238

Balu Nayak, University of Maine

Processing and value-addition of culture seaweed, \$908,015

Recent Program Development Awards

Town of Penobscot

Bagaduce Watershed Monitoring, \$2,000

Damariscotta River Association

Midcoast Coastal Observing Alliance, \$5,000

Schoodic Institute

Northeast Coastal Station monitoring protocols, \$635

Bigelow Laboratory

Temperature sensitivity of early stage crustaceans, \$4,300

Maine Maritime Academy

Measuring persistent toxics in Penobscot Bay, \$2,260

University of Maine

Nitrogen loads in Casco Bay, \$3,580

University of Maine

Changes in fishermen's local knowledge, \$4,200

Passamaquoddy Tribe

Eel life cycle study methods, \$5,000

Northeastern University

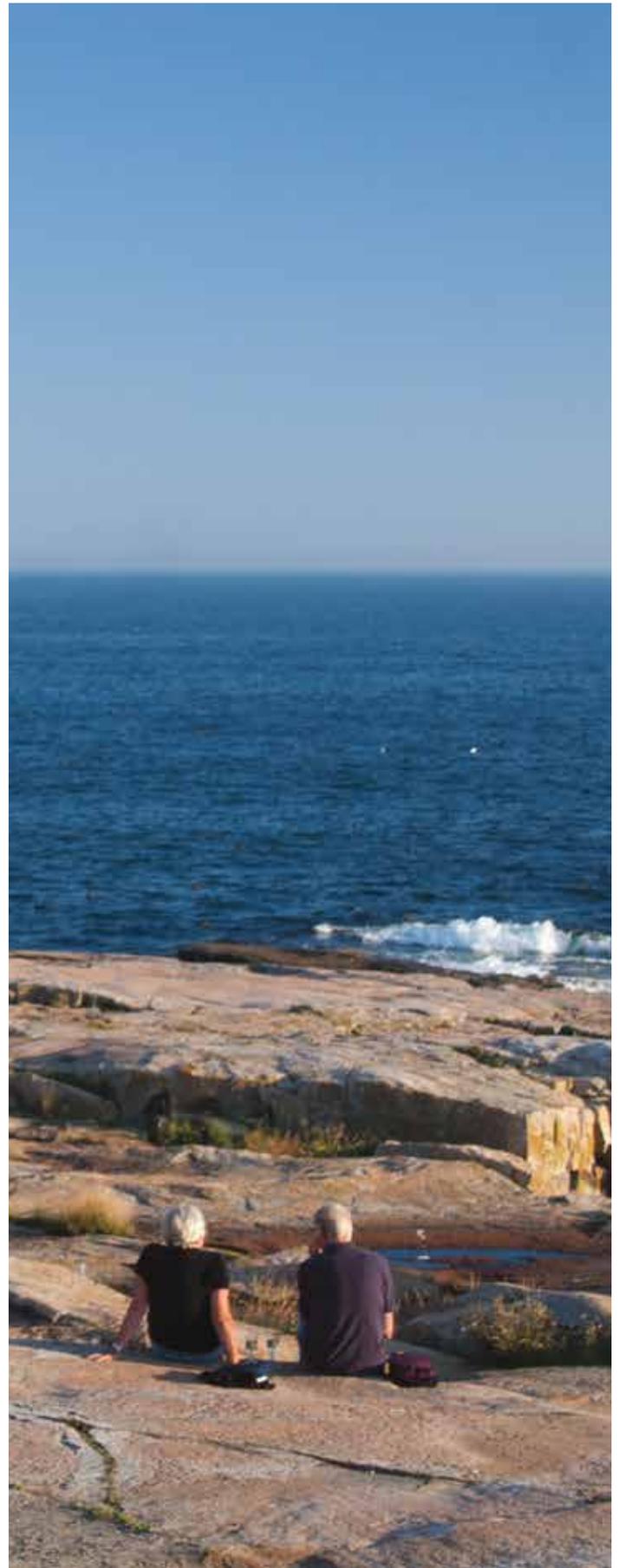
Developing a soft-shell green crab fishery, \$4,000

Visit our website for a complete list and descriptions of funded projects.



seagrant.umaine.edu | 207.581.1435

Photos Front cover: top—Jorge González; bottom—Kathlyn Tenga-González. Inside: lighthouse, scallop measuring, training volunteer citizen scientists—Kathlyn Tenga-González; kids—Beth Bisson; all others provided by Maine Sea Grant. Back cover: Jorge González



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