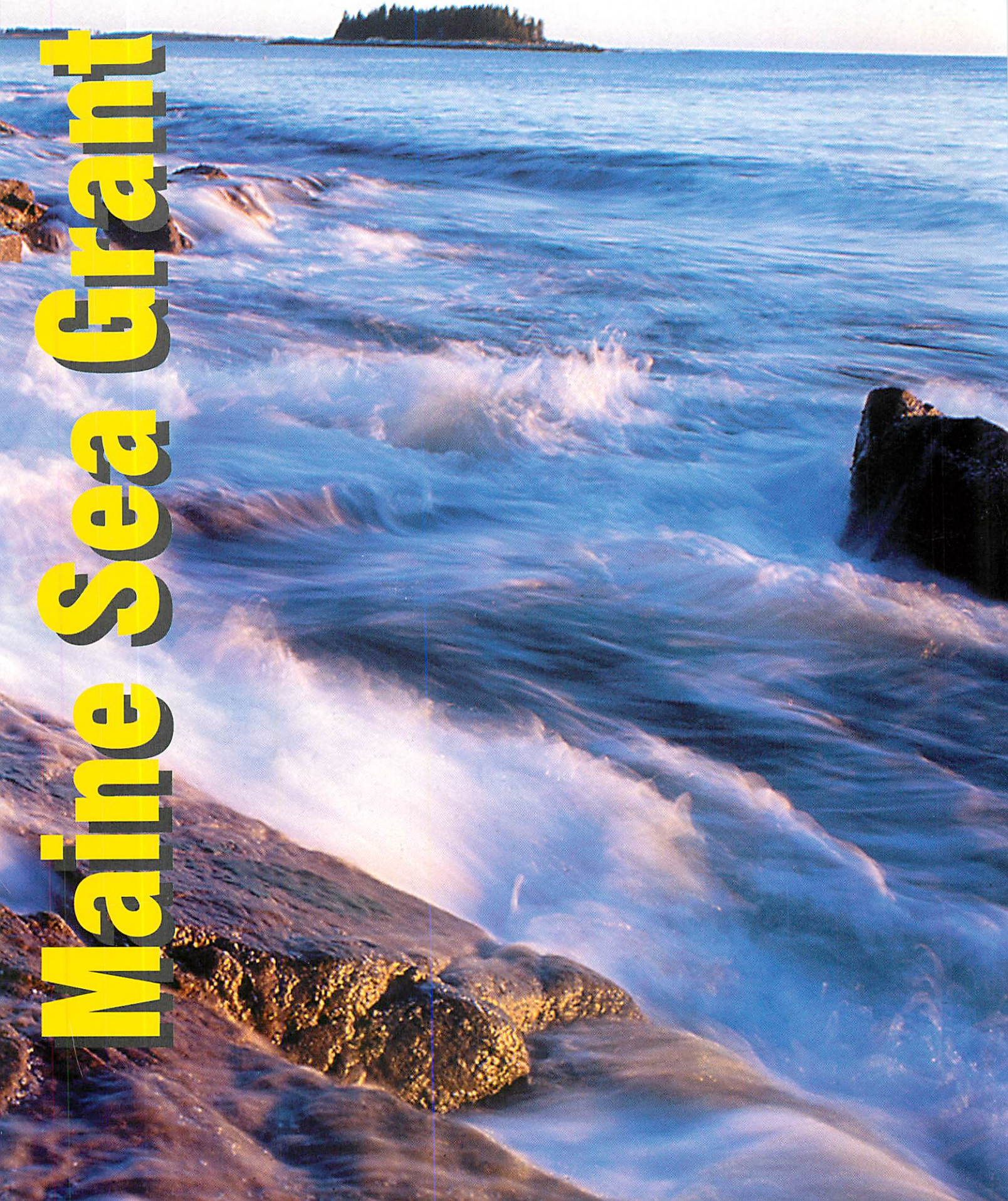


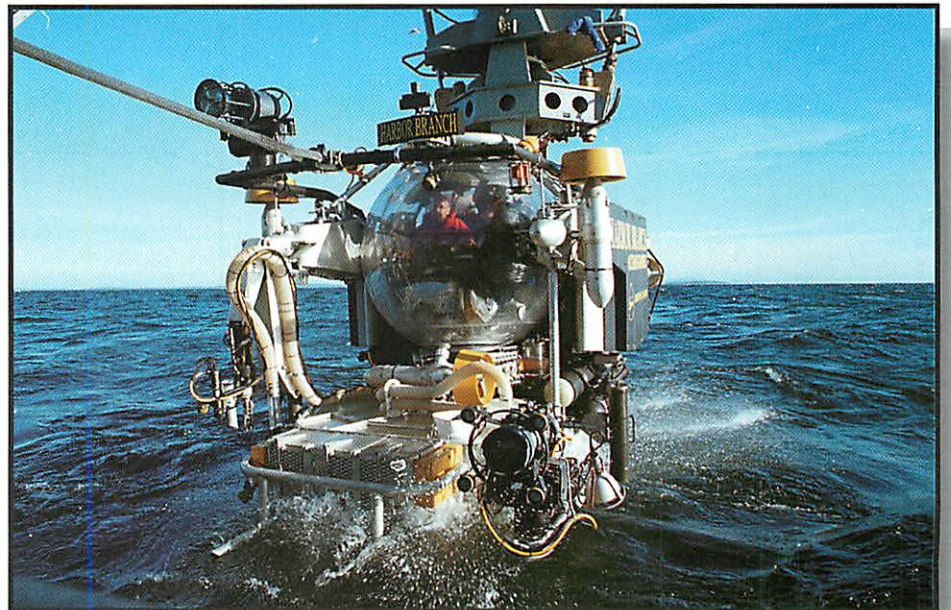
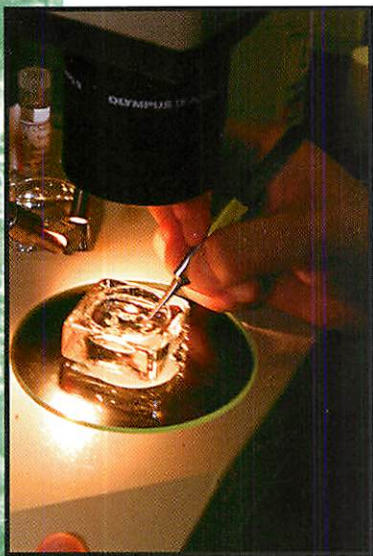
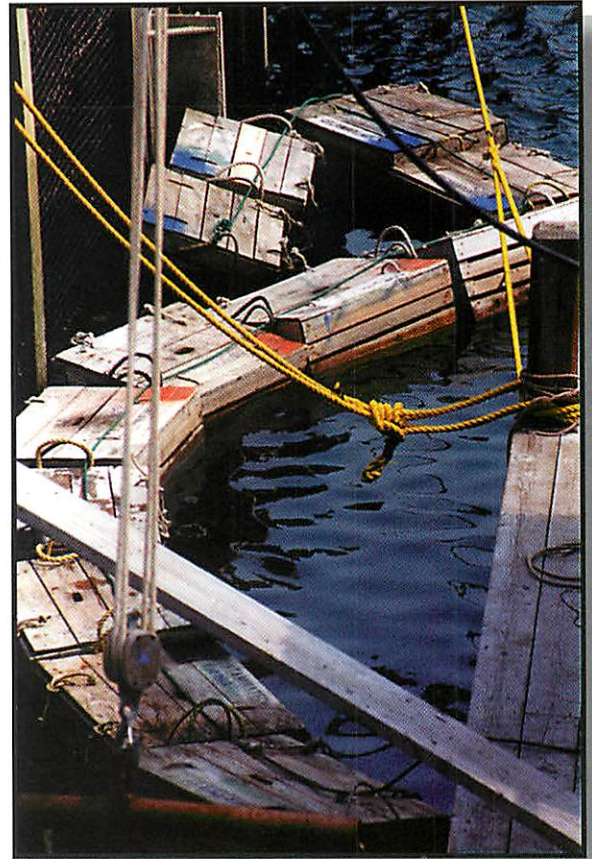
Maine Sea Grant





Maine Sea Grant

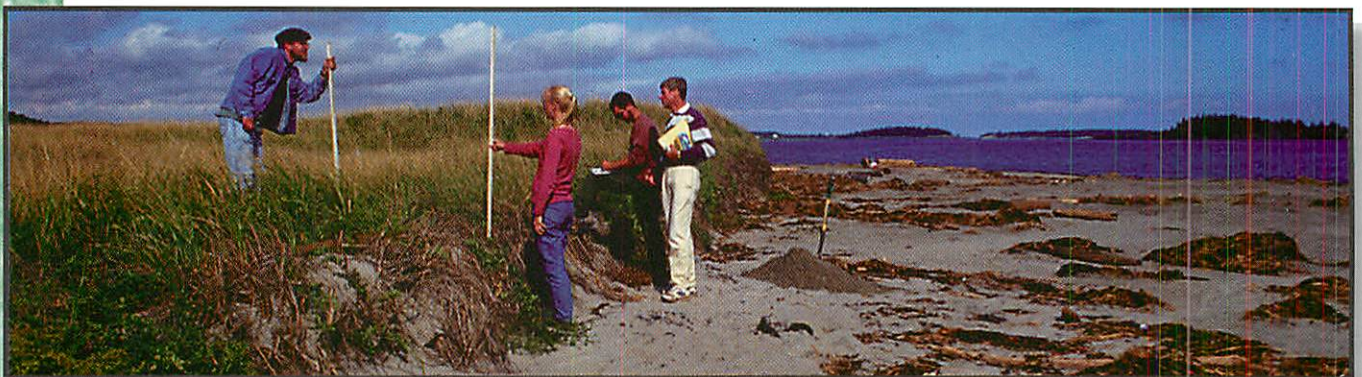
Maine Sea Grant is part of a national network of 30 programs committed to the stewardship and responsible use of our nation's marine and Great Lakes resources. Working in partnership with marine industries, scientists, government agencies, private organizations, and a wide range of marine resource users, Maine Sea Grant supports research and educational outreach projects designed to sustain the ecological and economic resources of Maine's coastal and marine environments. Our goal is to promote the understanding, development, wise use, and conservation of ocean and coastal resources.

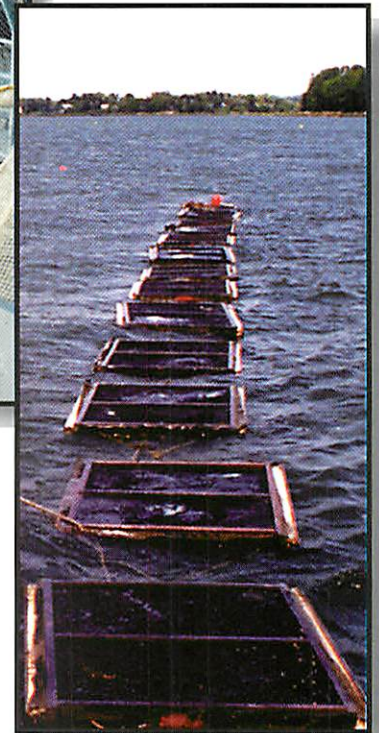
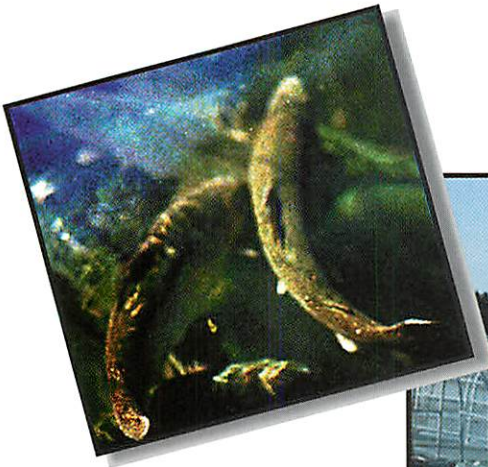


Marine Science for Maine People

The Issues

The marine and coastal environments of Maine's more than 4500 miles of diverse coastline are under increasing pressure from a variety of marine resource users. Sea Grant is working with communities to address problems and respond to opportunities in three major areas: aquaculture, fisheries, and ecosystem health.





Aquaculture

Aquaculture in Maine is worth more than \$65 million, largely based on salmon but with significant contributions from other species, such as oysters and mussels. Maine Sea Grant supports the continuing development of the aquaculture industry, assists in minimizing environmental impacts and conflicts with other stakeholders, and contributes to the developing potential of marine biotechnology.

Sea Grant is helping the growing aquaculture industry cope with disease problems, improve strains of cultured species, develop new techniques to culture existing and alternative species, determine the environmental impacts of aquaculture and explore mitigation techniques, and help local communities resolve conflicts between aquaculture and other marine resource users.



Fisheries

Commercial fishing is an important business in Maine, playing a vital role in the region's economy, culture, and maritime history. Maine has the most valuable fishery on the East Coast and is third in the nation. Over half of the lobsters caught in the U.S. are landed in Maine, and Portland is the third largest fishing port on the eastern seaboard.

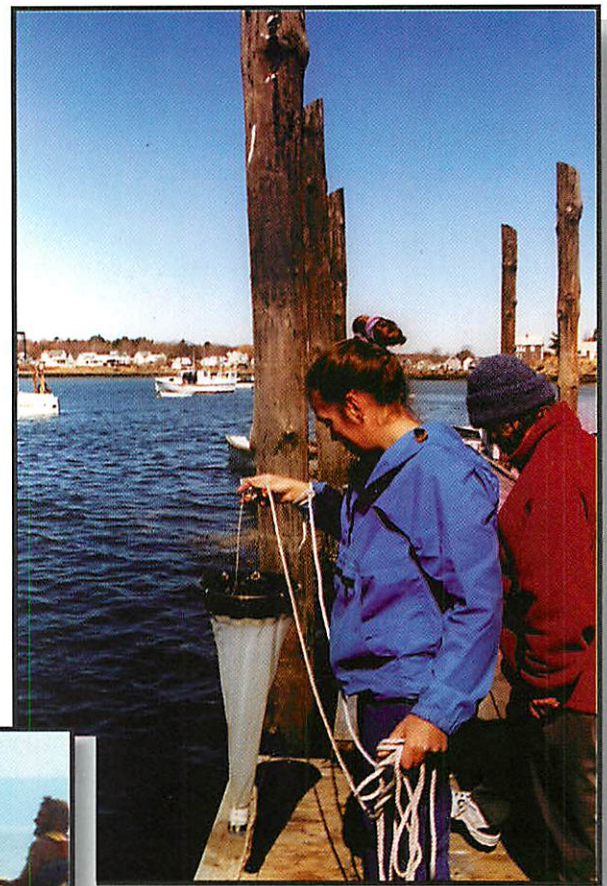
Maine Sea Grant is collaborating with state, federal, and regional partners to provide scientific information to help manage Maine's traditional commercial fisheries, assist in the sustainable development of emerging fisheries, and facilitate new approaches to community-based fisheries management.

Marine Science for Maine People

Ecosystem Health

Maine has a long and diverse coastline with a wide variety of habitats and range of human impacts. More than half of the state's population is concentrated in the coastal zone which creates problems of urban sprawl and development, especially in the more populous southern counties. In contrast, stimulating economic opportunities is a critical issue in Downeast Maine which includes some of the most economically depressed communities in the U.S.

Maine Sea Grant is working with state agencies, coastal planners, and others to monitor and protect coastal ecosystems; minimize human impacts; and assist communities in land use planning, managing development, and resolving user conflicts. At the same time, we seek to foster new economic opportunities by supporting research and development of new industries and technologies compatible with our coastal ecosystems and communities.

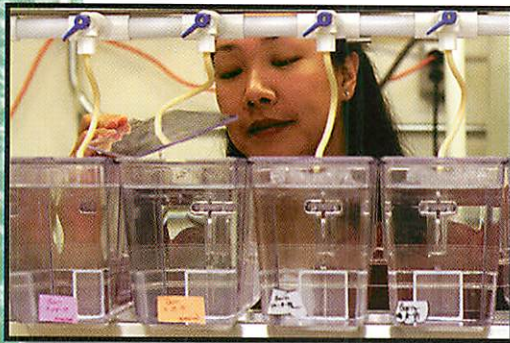


Our Program

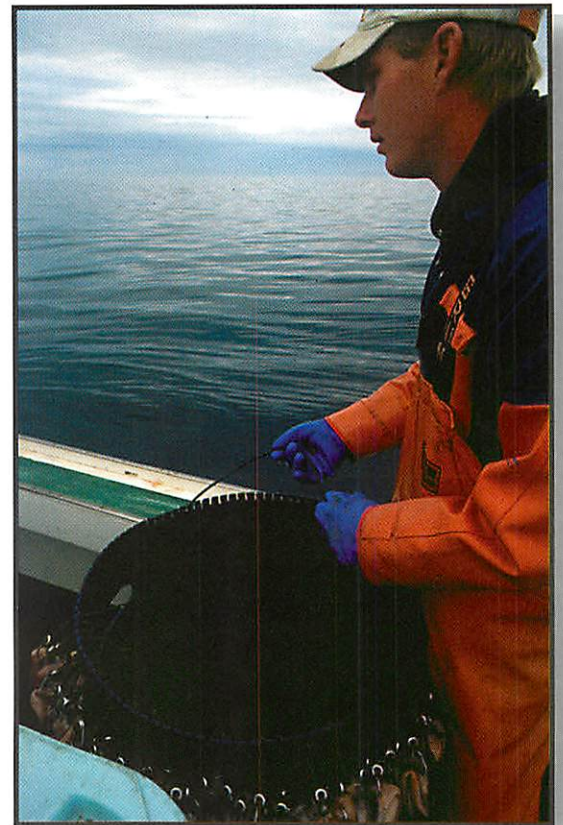
Research

Maine Sea Grant runs an annual competition to fund research projects that address issues of importance to regulators, industry, and other stakeholders. Research proposals are subject to a rigorous peer-review process to ensure that funded projects meet the highest scientific standards. Sea Grant-funded researchers at the University of Maine, Bigelow Laboratory for Ocean

Sciences, and other educational and research institutions in the state conduct projects that help answer questions related to management and wise use of marine and coastal resources in the Gulf of Maine. Research results are disseminated to stakeholders through publications, extension agents, conferences, and workshops.



Marine Science for Maine People



Extension

The goal of Maine's Marine Extension Team, a collaboration between Cooperative Extension at the University of Maine and Sea Grant, is to provide coastal communities and other stakeholders with scientific information and assistance. At the same time, the extension team ensures that researchers are aware of the most pressing issues facing the state. Information is transferred to and from citizens by extension associates who design and deliver local outreach programs. Through this process, communities gain the capacity to make informed decisions on the management of coastal and marine resources to achieve ecological and economic sustainability.

Extension staff promote new fisheries research techniques and management strategies, and help develop new fishing gear that is effective and minimizes impacts on the marine environment and endangered species.

They also facilitate the involvement of industry in data collection, and encourage research partnerships between scientists and fishermen which provide useful information to marine resource managers. Sea Grant also supports harvester efforts to enhance, and actively participate in co-managing, their fisheries.

Extension staff provide technical and organizational support to the aquaculture industry, and assist in developing and implementing sustainable fish health management practices.

Marine Extension staff assist volunteer environmental monitors in providing credible data to state and local resource managers. They also work with coastal communities on issues of concern, including land use planning, environmental management, use conflicts, and other watershed initiatives.

Communications

Maine Sea Grant communications address the information needs of coastal stakeholders. The goal is to disseminate useful, science-based information on marine and coastal topics so that citizens can use it to make informed decisions on the conservation and wise development of the state's marine and coastal resources. Our publications include brochures, posters, booklets, videos, and radio spots and range from technical publications for specialized audiences to educational materials for the general public.

Education

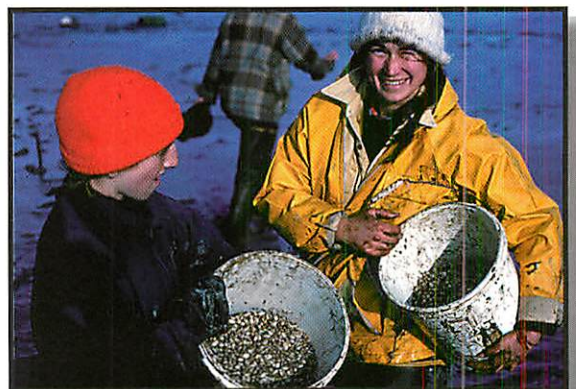
K-12

The Maine Sea Grant Education Program seeks to improve K-12 marine-related educational opportunities in the state, as well as continued learning programs for educators. The education program offers

in-service teacher training workshops on marine science topics, and provides opportunities for teachers to collaborate with researchers. Maine Sea Grant participates in the MERITS summer internship program for high school students, teachers, and undergraduates. Various educational materials are available.

Graduate and Undergraduate

Maine Sea Grant serves as the point of contact for graduate students interested in marine-related fellowships such as the Dean John A. Knauss Marine Policy Fellowships, the NOAA Coastal Zone Management Fellowships, the Sea Grant Industrial Fellowships, and the Maine Legislative Fellowship. Maine Sea Grant also supports graduate and undergraduate students working with faculty on a wide range of marine-related research projects.



National Sea Grant Depository
Pell Library Building - GSO
University of Rhode Island
Narragansett, RI 02882-1197 USA

Photographers

Cover Photo: Jerry and Marcy Monkman,
Ecophotography

Page 1, left; page 3, bottom left; page 6,
left; page 8, top right photos: Monty
Rand, UMaine Dept. of Marketing

Page 4 center photo: Peter Ralston

Page 5 bottom photo: Pamela Price

Page 5 right photo: Lauri Bean

Page 9 left photo: Eleanor Ely

All other photos:

Maine Sea Grant Program

UMaine School of Marine Sciences

Editor

Susan White, Communications

Coordinator, Maine Sea Grant Program

Designer

Natalie Springuel, Science Publications

Specialist, Maine Sea Grant Program



RECEIVED
NATIONAL SEA GRANT LIBRARY

MAY 04 2001

Pell Bldg. URI Bay Campus
Narragansett RI 02882 USA

Maine Sea Grant Program
5715 Coburn Hall
University of Maine
Orono, ME 04469-5715
Tel 207-581-1435
Fax 207-581-1426
www.seagrants.umaine.edu

MSG-RF-01-1
NA96RG0102
500


Sea Grant
Maine

1863 THE UNIVERSITY OF
 MAINE