



Coastal and Marine Working Group Members

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Kathy Mills, Gulf of Maine Research Institute

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Kristen Puryear, Maine Department of Agriculture, Conservation & Forestry

David Townsend, University of Maine

Steve Walker, Maine Coast Heritage
Trust

Carl Wilson, Maine Department of Marine Resources

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Maine's coastal communities and ecosystems are foundational to our identity and our economy

- \$5.6M contributed each year by coastal tourism (Waypoints 2017)
- \$674M in fisheries and aquaculture products landed (Maine DMR 2019)
- 45% of Maine residents live in coastal and island communities (MCP 2020)





OUR STRATEGIES: CREATE NEW OPPORTUNITIES

Mitigating and adapting to climate change creates new opportunities for Maine coastal communities and marine-dependent businesses

Technical assistance delivers information businesses and towns need to plan and adapt



Nature-based solutions protect communities, create jobs, preserve green space, save \$



New and emerging seafood opportunities



Climate resilience creates new jobs, products for Maine ports





Strategies

- Track climate impacts to support adaptive decision making
- 2. Provide technical assistance and outreach via the Coastal and Marine Information Exchange and Maine Seafood Business Council
- **3. Enhance mitigation** by conserving and restoring coastal habitats
- **4. With nature-based solutions,** promote climate-adaptive ecosystem planning and management
- **5. Managing for resiliency** of Maine's marine fisheries and aquaculture industries
- 6. Create climate-ready working waterfronts



STRATEGY 1. Track climate impacts to support decision making

- Establish a state-level Climate
 Collaborative for Coastal and Ocean
 Monitoring
- Collect, assess, and share information on how climate change is affecting Maine's coastal and marine areas to support adaptive decision making
- Leverage existing programs led by the state, non-profits, academic communities and citizen scientists.





STRATEGY 2. Provide technical assistance and outreach

- In coordination with the monitoring collaborative...
 - The Coastal and Marine Information Exchange will provide coastal and marine stakeholders with accessible, relevant information and decision support tools
 - The Maine Seafood Business Council will provide Maine's seafood harvesters, shoreside businesses, and working waterfronts with information and tools to support operational decisions, capital investments, and long-range planning to implement climate adaptation and mitigation strategies



Credit: B. McGreavy



STRATEGY 3. Enhance mitigation by conserving and restoring coastal habitats

- Determine blue carbon stocks and mitigation values by conducting a comprehensive coastwide survey.
- Encourage blue carbon habitat conservation and restoration through formal carbon sequestration incentives or carbon permit program
- Achieve blue carbon mitigation by managing, conserving and restoring tidal marsh, eelgrass, and seaweed habitats



Credit: J Hagan Back River saltmarsh between Georgetown and Arrowsic



STRATEGY 4. With nature-based solutions, promote climate-adaptive ecosystem planning and management

- Foster climate-adaptive planning in marine, coastal, and inland areas for the State and municipalities
- Promote nature-based solutions for climate challenges that impact coastal rivers, shorelines, and coastal and marine habitats
- Conserve and restore ecosystems to foster resiliency
- Strengthen stormwater management tools





STRATEGY 5. Manage for resiliency of Maine's fisheries and aquaculture industries

Information support

Market support and business resilience

 Evaluate how regulations can better address environmental change while recognizing the need for stability

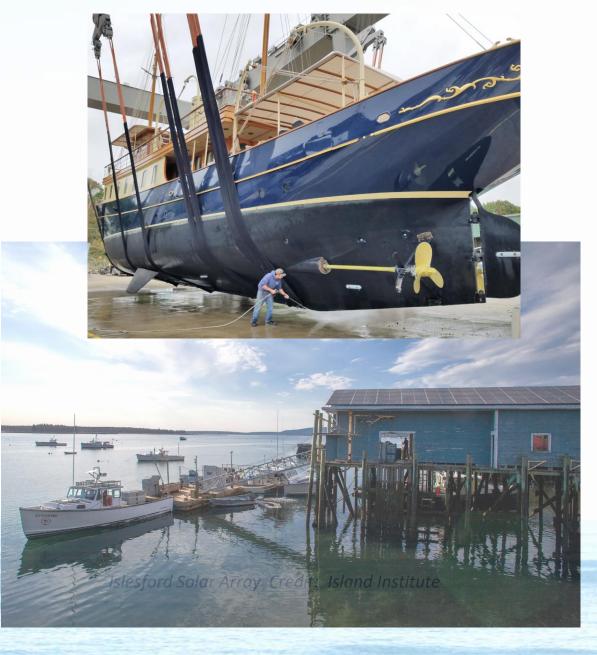


Credit: J Waller, J. Hagan



STRATEGY 6. Climate-Ready Working Waterfronts

- Develop ways to finance infrastructure improvements.
- Invest public funds wisely.
- Improve guidance and technical assistance for municipalities and business owners.
- Reform and improve regulatory and nonregulatory approaches for waterfront redevelopment.
- Continue conversations about marine emissions, Green Ports, renewable energy



Top photo credit: Maine Marine Trades Association Bottom: Islesford Solar Panel Array: Island Institute