GOALS	RECOMMENDATIONS	Action to Date	Future Action
1. Invest in Maine's Capacity to Monitor and Investigate the Effects of Ocean Acidification and Determine Impacts of Ocean Acidification on Commercially- Important	1.1. Enhance monitoring and create a database sufficient to support the development of regulatory and non-regulatory approaches to reduce and limit nutrients and organic carbon from sources that are contributing significantly to acidification of Maine's marine waters. Enhanced monitoring should begin in one or more pilot estuaries where impacts are presently occurring.	Observations by UNH: Casco Bay at SMTC pier	
Species and the Mechanisms Behind Those Impacts	1.2. Expand monitoring of ocean acidification to establish its natural variability and to detect trends in water chemistry and related biological responses.	Observations by UNH 1. Continued Wilkinson Basin Transect 2. Continued CO2 buoy operations at Appledore IS. 3. 2018 ECOA Gulf-wide survey 4. Continued deployment of TA measurement on the NOAA Bigelow.	

1.3. Develop new tools with which to assess and understand acidification and its impacts in Maine waters.	Further development and refinement of the Contros Hydros-FIA Total alkalinity analyzer deployed aboard the NOAA Bigelow	
1.4. Determine the causes and relative importance of acidification in the waters and sediments of Maine.	Manuscript on physical controls of acidification in the Gulf of Maine Published by Salisbury and Jonsson, 2018.	
1.5. Identify the impacts of acidified waters and sediments on Maine's commercial species.		

2. Reduce Emissions of Carbon Dioxide	2.1. Strengthen coordination and continue participation with existing national, state, and regional initiatives regarding the reduction of atmospheric CO_2 levels.	
	2.2. Encourage key leaders and policymakers to synchronize in establishing a comprehensive and unified strategy to reduce carbon dioxide emissions.	
	2.3. Expand actions at the state and local levels that may help in reducing CO ₂ emissions.	

3. Identify and Reduce Local Land-Based Nutrient Loading and, Organic Carbon	3.1. Identify and reduce nutrient loading and organic carbon from point source and nonpoint discharges determined to cause or contribute to ocean acidification.	
Contributions to Ocean Acidification and Freshwater Runoff by Strengthening and Augmenting Existing Pollution Reduction Efforts and Making	3.2. Assess the need for water quality criteria relevant to ocean acidification.	
and Making Groundwater Recharge a Land Use Priority.	3.3. Ensure that state staff and other practitioners are working with the best information and most effective technology.	

3.5. Support and reinforce current planning efforts and programs that address the impacts of nutrients and organic carbon and freshwa runoff into coastal waters	nd ve ! ater	
3.6. Enhance education of outreach programs that programs that programs with information best practices for reduction nutrient pollution.	rovide on about	

4. Increase Maine's Capacity to Mitigate, Remediate and Adapt to the Impacts of Ocean Acidification	4.1. Preserve, enhance and manage a sustainable harvest of kelp, rockweed and native algae in bivalve areas and adjacent shoreline, and preserve and enhance eelgrass beds.	
	4.2. Encourage bivalve production to support healthy marine waters.	
	4.3. Spread shells or other forms of calcium carbonate (CaCO ₃)in bivalve areas to remediate impacts of local acidification.	
	4.4. Increase the capacity of the fishing and aquaculture industries to adapt to ocean acidification.	

4.5. Identify refuges and acidification hotspots to prioritize protection and remediation efforts.	
4.6. Encourage the enhancement and creation of research hatcheries.	

5. Inform Stakeholders, the Public, and Decision- Makers about Ocean Acidification in Maine and Empower Them to Take Action.	5.1. In addition to providing the commission's report, its key findings should be communicated to the Governor, Maine's legislative leaders, Maine's Congressional delegation, the press and the general public in a series of briefings by commission members.	
	5.2. Continue efforts to increase the understanding of ocean acidification among key stakeholders, targeted audiences and local communities to help implement the commission's recommendations.	

5.3. Enhance the existing communication network of engaged stakeholders, state agency representatives and the research community.	
5.4. Develop, adapt and use curricula on ocean acidification in K-12 schools and institutes of higher education and increase interdisciplinary university programs to equip young leaders with the skills to find solutions to complex multidisciplinary problems such as ocean acidification.	

6. Maintain a Sustainable and Coordinated Focus on Ocean Acidification.	6.1. Create an on-going ocean acidification council.	

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