

National Sea Grant Resilience Toolkit

	Program	Topic Area					Tool Type						Comments on climate resilience tools relative to potential use in the Great Lakes region.
		Coastal Economy (60)	Planning and Coastal Intelligence (85)	Climate and Hazard Adaptation (107)	Water Resources (42)	Natural Infrastructure (25)	Decision Support Tools (82)	Technical Assistance (61)	Guides & Manuals (67)	Training (29)	Communities of Practice (20)	Data & Assessments (30)	
Tools (193)													
A Community Self-Assessment to Address Climate Change Readiness	MN		x				x						
A Sustainable Working Waterfronts Toolkit	FL	x	x						x				x
Adapting to Climate Change in Alaska (video)	AK			x			x						
Alaska Climate Change Adaptation Planning Tool	AK			x			x						
Alaska Sea Grant helps coastal Alaska village develop and implement a climate change adaptation strategy	AK			x				x					
Aquatic Invasive Species Monitoring and Outreach	WA				x			x		x	x	x	
Assessing Vulnerability and Resilience in Maine Fishing Communities	ME	x							x				x
Assessing vulnerability to sea level rise in Beaufort County, S.C., using facilitated dialogue and visualization tools	SC		x	x			x	x				x	
Assessment of Sociocultural Dimensions of Coastal Change	WA	x						x					
Bahia Grande Ecosystem Restoration Decision Support Tool	TX		x			x	x						
Beach and Nearshore Water Quality Forecasting Tool	MI		x		x		x					x	
Biophysical Research	OR			x			x						
Building a Resilient Coast video	ME	x		x					x				
Building Capacity to Adapt to Climate Change through Local Conservation Efforts	RI			x			x	x					
CHARM Model	TX		x				x						
Chester City Interactive Inundation Maps	PA		x		x		x						
Chester Climate Adaptation Team	PA	x		x							x		
Clean Marina Classroom: Increasing Resiliency Unit	MI	x								x			
Climate and Salinity Intrusion Decision Support Tools Developed for the Yadkin-Pee Dee River Basin	SC		x				x						
Climate and Water Quality Diagram	MI	x		x	x				x				
Climate Change Adaptation Planning Manual for Coastal Alaskans and Marine-Dependent Communities	AK			x					x				
Climate Change and Regulatory Takings in Coastal Hawai'i	HI		x	x		x			x				x
Climate Change and the Visitor Industry; People, Place, Culture, and the Hawai'i Experience – Stakeholder Outreach Workshop Summaries and Risk Perception Analysis	HI	x		x					x				
Climate Change Impacts in Hawai'i	HI			x					x			x	
Climate Change Implications and Adaptation Strategies for Great Lakes Ports, Harbors and Marinas	WI			x					x				
Climate Change in the Federated States of Micronesia	HI		x	x				x	x				
Climate Change Law and Policy in Hawai'i	HI			x					x				
Climate Change Planning	ILIN		x				x						
Climate Change Symposium on Sustaining Coastal Cities	MIT	x	x	x					x				
Climate Fact Sheet Series	MI			x					x				
Climate Ready Great Lakes Modules	MI			x						x			
Coastal Brochure	WHOI		x						x				
Coastal Climate Adaptation Initiative	WHOI			x								x	
Coastal Community Resilience Index	MSAL			x			x	x					
Coastal Flood Risk Reduction Course	WA			x						x			
Coastal Hazards and Community Resiliency in Delaware	DE			x		x	x	x	x				
Coastal Hazards Guide	ME		x	x					x				
Coastal Hazards Resilience Network	WA			x							x		
Coastal Law Center Identifies Emerging Issues	NC		x							x			x
Coastal Ocean Hypoxia Model	SC				x							x	
Coastal Property Guide	RI	x		x		x	x		x				
Coastal Property Owner Tours	ME		x	x				x		x			
Coastal Resilience Law Conferences	CT	x	x										x
Coastal Riparian Landscaping Guide	CT	x	x		x	x	x	x	x				
Coastal Toolkits: Beach Toolkit	FL	x	x						x				x
Coastal Toolkits: Boating Toolkit	FL	x	x						x				x
Coastwatch: Great Lakes Surface Water Temperatures	MI				x							x	
Collaborative Network Building	OR		x					x		x	x		
Community Adaptation Outcome Matrix	NH		x	x			x	x					
Community-Based Monitoring of Alaska's Coastal and Ocean Environment: Best Practices for Linking Alaska Citizens with Science	AK		x	x			x	x					
Community-based Sea Level-Rise Projections	WA	x		x			x	x			x		
Connecticut Climate Adaptation Academy	CT	x	x		x	x	x	x	x				
Connecticut Rain Garden App	CT	x			x				x	x			x
Connecticut Shoreline Change Analysis – 100 Years of Erosion and Accretion	CT		x				x	x					x
Connecticut Shoreline Trends Analyses	CT	x	x			x	x	x					
Cost-Efficient Climate Change Adaptation in the North Atlantic Report	ME		x	x					x				

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Tools (193)													
Dealing with Coastal Erosion - The Spectrum of Erosion Control Methods	WHOI			x			x		x				
Decision Support Networks	OR		x	x					x			x	
Delaware Homeowners Handbook to Prepare for Natural Hazards	DE	x	x	x					x				
Dune It Right Manual	NJ		x	x		x	x		x				
Dunes and Dune Grass Lesson Plan	NJ					x				x			
Ecofore Website about Lake Erie Hypoxia	MI			x			x						
Environmental Response Management Application (ERMA) Tool	MI			x			x						
Facing Our Future: Adaptive Planning for Sea-level Rise in Maui and Hawaii Counties	HI	x		x			x						
Financial Resilience Manual	MSAL	x	x				x						
Florida Clean Marina and Clean Vessel	FL		x	x					x	x			x
Forecasting Effects of Nutrient Loading and Changing Land Use	MD		x		x		x	x				x	
Fortifying Existing Coastal Buildings	NC		x	x					x				
FutureCoast Sea Level Rise Web-Based Tool	VA	x		x			x	x		x			
Getting to Resilience	NJ	x					x						
Governors' South Atlantic Alliance Data Portal	SC		x									x	
Great Lakes Coastal Community Climate Adaptation Checklist	WI			x			x					x	
Great Lakes Coastal Hazards Planning, Mitigation and Resilience Survey	WI	x		x									
Great Lakes Coastal Storms Program Website	WI			x					x				
Great Lakes Current Incident Database	MI			x			x						
Green Shores for Homes	WA					x		x					
Guidelines and Best Practices for Addressing Cultural Aspects of Coastal Ecosystem-Based Management	WA		x				x						
Gulf of Mexico Climate Community of Practice	MSAL			x								x	
Habitat Based Management Planning	CT	x	x			x	x	x	x				
Hampton Roads Sea Level Rise and Flooding Adaptation Forum	VA	x	x	x			x	x			x		x
Hawai'i Boater's Hurricane and Tsunami Safety Manual	HI	x		x			x						
Hawai'i Coastal Hazard and Mitigation Guidebook	HI		x	x					x				
Hawai'i Homeowners Handbook to Prepare for Natural Hazards	HI			x					x				
Hawai'i's Changing Climate	HI		x	x				x	x				
Hawai'i Climate Change Adaptation Planning (Act 83, 2014)	HI			x					x				
Helping Coastal Communities Prepare for Flood Insurance Changes	NC	x		x				x					
Homeowners Handbook to Prepare for Natural Disasters	MSAL			x		x			x				
Hydrologic Model of Clinton River Impoundments	MI		x		x		x						
Kaua'i Climate Change and Coastal Hazards Assessment (KC3HA)	HI	x		x					x		x		
King Tides	WA		x	x							x		
Landslide Response Support	WA			x								x	
Lawn Campaign Mind Map	NH		x		x		x	x					
Lawn care information sheet and brochure	NH		x		x				x				
Lawn to Lake	ILIN				x			x	x				
Living on Alaska's Changing Coast: Adapting to Climate Change in Coastal Alaska	AK			x			x						
Local Decision Maker; Assisting Indiana communities in making informed and integrated land use and economic development decisions	ILIN	x					x						
Low Impact Development in Coastal South Carolina: A Planning and Design Guide	SC		x						x				
Maine Beaches Conference	ME					x				x			
Maine Climate News Website	ME	x		x								x	
Maine's Climate Future Report	ME	x		x					x			x	
Managing Live Bait Trade to Reduce Invasive Species	MD	x			x		x		x				
Maryland Climate Science Communication Forum	MD		x	x			x				x		
Massachusetts Homeowner's Handbook to Prepare for Coastal Hazards	MIT/WHOI	x	x	x					x				
Mississippi-Alabama Sea Grant Legal Program	MSAL		x				x	x	x	x			x
MIT Sea Grant Climate Change Web Site	MIT		x						x				
Model of Human Wellbeing for use in California Current Integrated Ecosystem Assessment and Ecosystem-Based Management	WA			x			x						
Monitoring Sediment Supply	WA					x						x	
National Flood Insurance Program/Community Rating System	MSAL			x				x	x	x			
Natural Hazard and Climate Change Adaptation Tool Kit for Delaware Communities	DE	x	x	x			x		x				
Natural Hazard Considerations for Purchasing Coastal Real Estate in Hawai'i	HI		x	x					x				
Navigating Change, Hawai'i's Approach to Adaptation	HI			x					x				
Needs Assessment of New Jersey Business Owners	NJ	x		x			x					x	

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New Jersey Coastal Community Resilience Demonstration Project: Pilot Communities: Cape May Point, Little Silver, Oceanport	NJ		x									x	
New Jersey's Coastal Community Vulnerability Assessment and Mapping Protocol	NJ		x									x	
NOAA CCAI project, Coastal Infrastructure Resilience in a Changing Climate	ME		x		x		x						x
NOAA Coastal Storms Program Coastal Inundation Risk and Vulnerability Study	HI		x	x	x			x	x				
NOAA Coastal Storms Program Projects	HI	x		x	x			x					
NOAA COCA project, Promoting resilience to climate change for lobstermen and fisheries dependent communities through participatory system dynamics modeling	ME	x						x					x
NOAA Lake Level Viewer	WI	x					x	x					
North Kingstown Coastal Resilience Pilot	RI			x			x	x	x				
Northeast Coastal Acidification Network	ME	x			x						x		
Ocean Acidification Education Tools for K-12 Classrooms	WA	x		x	x				x	x			
Olympic National Marine Sanctuary Climate Change Assessment	WA			x			x	x					x
Online Decision Support Tool about Climate Change and Whitefish	MI			x			x						
Online Resource Guide for Florida Shellfish Aquaculture: Florida Clam Farm Environmental Benefits Calculator	FL	x	x					x	x				
Online Video Explains Rapid Sea Level Rise	MD			x				x					
Port Asset Matrix	WI			x				x					
Protecting Water Resources and Managing Stormwater	NH				x		x	x	x				
Puget Sound Shoreline Monitoring Toolbox	WA				x		x	x					x
Real Time Lake Monitoring	ILIN		x		x								x
Remote Setting Training Program to Grow Oysters	MD	x						x		x			
Research Informs Management of Phragmites in Marshes	MD			x		x	x						x
Research on Effects of Climate Change on Distribution of Summer Flounder	VA	x											x
Resiliency Design Project in Hampton Roads	VA			x				x					x
Riparian Buffer Analysis and Outreach Program for Coastal Connecticut	CT	x	x			x	x	x	x				
River Restoration Workshop Series	ILIN	x			x					x			
Santa Barbara Area Coastal Ecosystem Vulnerability Assessment for Coastal Communities	CA		x					x					
Sea Level Affecting Marshes Model Maps	RI			x			x	x					
Sea Level Rise Adaptation Course	WA			x						x			
Sea Level Rise Visualization	RI	x		x			x	x					
Sea-Level Rise and Coastal Land Use in Hawai'i: A Policy Toolkit for State and Local Governments	HI			x	x	x	x	x	x				
Sentinel Monitoring for Climate Change in Long Island Sound	CT	x	x			x	x	x					x
Septic Sense and Septic Social Workshops	WA	x		x	x					x			
SG Law Center Funded Legal Research Report	NH			x	x								x
Shoreline Change Special Area Management Plan	RI	x	x			x	x	x	x				
Shrinking Shorelines Lesson Plan	NJ					x				x			
Social Science and Monitoring Needs Report for Puget Sound Recovery	WA		x										x
Social Science and Severe Weather: Evaluating a New Tornado Risk Communication Tool	WI			x				x					
Social Science Research	OR			x				x					
Social Scientist Directory	MIT	x		x			x	x					x
South Carolina Coastal Communities Initiative Mini-Grants Program	SC		x						x				
South Carolina Coastal Information Network	SC		x									x	
South Carolina Community Resource Inventory	SC		x				x	x					
South Carolina Guide to Beachfront Property	SC		x	x					x				
Southeast and Caribbean Climate Community of Practice	SC			x								x	
Southern Maine Beach Profile Monitoring Program	ME					x						x	
Special Magazine Report Examines Sea Level Rise and Coastal Hazards	MD	x		x				x					
Storm Transposition to Promote Climate Resilience	WI	x		x				x					
StormSmart Coasts Website	NH		x	x					x				
Sustainable Landscape Education and Outreach	WA			x						x			
Targeted Research Results for Communities and Agencies	NC		x		x								x
The Beach Manager's Manuals about Harmful Algal Blooms	ILIN/MI	x			x				x				
The Biggert-Waters Flood Insurance Reform Act of 2012: A Flowchart to Help Property Owners Understand Possible Rate Increases	FL	x	x					x	x				x
The City of Chester Vision 2020 Climate Adaptation Planning Elements	PA		x	x	x				x				
The Crow's Nest Blog	NH			x					x				
The Crow's Nest Electronic Newsletter	NH			x					x		x		
The Great Lakes Legacy Act	ILIN		x		x			x	x	x			
The Kailua Community Survey Report	HI	x		x		x			x				x

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Tools (193)													
The Sandy Dialogues workshop Series	ME		x	x							x		
The Texas Coastal Citizen Planner program (TCCP)	TX		x				x	x		x			
The Texas Coastal Planning Program (CPP)	TX		x		x								
The Watershed Game	NH				x		x						
The Watershed Game	MN				x					x			
The weTable	TX		x				x						
Tipping Points and Indicators	ILIN		x				x						
Tools for Effective Communication of Ocean Acidification Science and Policy	WA			x					x	x			
Torch Lake Contamination Fact Sheets, Map and PCB model	MI		x		x		x		x				
Tracking Harmful Algal Blooms Using Satellites	MD			x	x						x	x	
Training Volunteers to Assist Chesapeake Bay Cleanup	MD		x	x	x			x		x			
Using participatory modeling and citizen science to help blue crab fishermen in South Carolina identify ways to adapt to a changing climate	SC	x	x	x	x								
Vertical Land Movement Estimates	WA			x			x	x					
Virginia Coastal Policy Clinic, William & Mary Law School	VA		x				x	x	x				x
Visualizing Bluff Erosion	WI			x			x						
Volunteer Monitoring of Shoreline Restoration	WA	x				x		x			x	x	
Vulnerability, Consequences, and Adaptation Planning Scenarios (VCAPS)	NC/SC			x			x						
Washington Coast Marine Spatial Planning	WA		x					x					
Water Resources and Climate Change Adaptation in Hawai'i	HI	x		x	x		x					x	
Water Stewardship Program	WA		x		x			x		x		x	
Water Supply Planning Tools	ILIN		x		x		x						
Water, Weather, Climate and Community	NH	x		x	x					x			
weTable: Data Visualization for Community Planning	MD		x	x		x	x						
WeTables	NH		x				x						
Why Dunes are Important Lesson Plan	NJ					x				x			
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