Sea Grant Program	Title	Summary	website	POC
Connecticut	**Connecticut Climate Adaptation Academy**	Municipalities need information and tools to develop climate action and resiliency plans and to act on those plans. Connecticut Sea Grant and the UConn Center for Land use Education and Research (CLEAR) are partnering with researchers, consultants and other professionals to work with municipalities and relevant professionals on climate resiliency through the Climate Adaptation Academy (CAA). CAA is a one-day session on topics relevant to municipal commission members (Planning and Zoning, Inland Wetlands, Conservation), municipal officials, coastal engineers and other interested professionals. Experts on various topics are brought in to speak and have an interchange with the audience so as to best address their questions and concerns.	http://clear.uconn.edu/climate/index.htm	Nancy Balcom
Connecticut	**Connecticut Shoreline Trends Analyses**	Connecticut Sea Grant partnered with CLEAR and the Connecticut Department of Energy and Environmental Protection (DEEP) to conduct a Geographic Information System (GIS) time series analysis using maps of the Connecticut shoreline from time periods between 1880 and 2006. A detailed data set describing shoreline trends from a statewide, regional, and localized perspective was produced showing how much the shoreline has changed and how quickly. These data are critical in working with stakeholders on coastal community resilience.	http://clear.uconn.edu/webinars/CLEARseries14/shorelineChange.htm	Nancy Balcom
Connecticut	**Coastal Resilience Law Conferences**	CTSG partnered with the UConn Law School and the National Sea Grant Law Center to hold two conferences on resilience at the UConn Law school (Legal Solutions to Coastal Climate Change Adaptation in Connecticut, February 2012; Climate Resilience – A New Way Forward, April 2014). These conferences helped establish a relationship with the Shoreline Preservation Task Force formed by the Connecticut General Assembly and for the first time, brought together state and municipal managers and planners, state legislators, academics and the interested public to discuss climate adaptation policy in coastal Connecticut. A special issue of the Sea Grant Law and Policy Journal was published from the 2012 conference:	http://nsglc.olemiss.edu/SGLPJ/SGLPJVol5No1.htm	Nancy Balcom
Connecticut	**Riparian Buffer Analysis and Outreach Program for Coastal Connecticut**	CTSG and CLEAR partnered to conduct a GIS analysis of riparian buffers for Connecticut and to develop an outreach program on riparian areas http://clear.uconn.edu/%5C/projects/riparian/index.htm. The GIS analysis examines land cover change between 1985 and 2006 for areas with 100 ft and 300 ft of waterways and shorelines. Based on the results of this analysis, a riparian buffer workshop was developed with a goal toward towns adopting riparian buffer guidelines and recommendations as changes to town practices and regulations. Riparian areas are of critical importance for climate resilience in terms of river and stream flooding and in species resilience with rising water temperatures.	http://www.google.com/url?q=http%3A%2F%2Fclear.uconn.edu%2F%255C%2Fprojects%2Fripariian%2Findex.htm&sa=D&sntz=1&usg=AFQjCNHqZQ2ATpSHOY7XgOegj8bjwNN2xg	Nancy Balcom

Sea Grant Program	Title	Summary	website	POC
Connecticut	**Coastal Riparian Landscaping Guide**	With EPA support, CTSG partnered with CLEAR and UConn's Dept of Plant Science and Landscape Architecture to produce the web-based tool, Coastal Riparian Landscaping Guide for Long Island Sound (http://clear.uconn.edu/crlg/index.html). Based on exposure, level of protection, and property slope, landscape layouts and native coastal plants are suggested. The layouts enhance coastal resilience while maintaining water views and access. A CTSG coastal planting publication serves as a complementary resource for re-planting storm-damaged landscapes (http://s.uconn.edu/1m7).	http://www.google.com/url?q=http%3A%2F%2Fclear.uconn.edu%2Fcrlg%2Findex.html&sa=D&sntz=1&usg=AFQjCNHv-CdiDtrfS6D81OSGOPWLIgM09Q	Nancy Balcom
Connecticut	**Habitat Based Management Planning**	Development pressures, invasive species, climate change, and fragmentation are factors adversely affecting the sustainability and resilience of coastal habitats. CTSG and CLEAR developed a web-based tool (http://clear.uconn.edu/tools/open_space/index.htm) which leads resource managers through the process of developing a long-term habitat based management plan with information provided on coastal habitat types, management and restoration so as to maximize the long term resilience of natural areas.	http://www.google.com/url?q=http%3A%2F%2Fclear.uconn.edu%2Ftools%2Fopen_space%2Findex.htm&sa=D&sntz=1&usg=AFQjCNEjI8km6c7QaMTP_bTv2tzFJVfZZQ	Nancy Balcom
Connecticut	**Sentinel Monitoring for Climate Change in Long Island Sound**	A bi-state workgroup from Connecticut and New York (including the Connecticut and New York Sea Grant Programs, NOAA, EPA, Connecticut DEEP and New York Department of Environmental Conservation) developed a strategy to determine climate change impacts to the Long Island Sound ecosystem. The Sentinel Monitoring for Climate Change Program in Long Island Sound is a multi-disciplinary scientific approach to provide early warning of climate change impacts to Long Island Sound ecosystems and species to facilitate appropriate and timely management decisions and adaptation responses. The goal of this strategy is for sentinel data to provide scientists and managers with the information necessary to prioritize climate change impacts and determine appropriate adaptation strategies.	http://www.google.com/url?q=http%3A%2F%2Flisicos.uconn.edu%2FDEP%2Fsentinel%2Flisrc.php&sa=D&sntz=1&usg=AFQjCNGwYuKJLMsNMo4bab5c2HTkQh2kQg	Nancy Balcom
Connecticut	**Connecticut Rain Garden App**	CLEAR and CTSG partnered to develop a Rain Garden App designed to help people properly install a rain garden, a critical tool in the face of changing precipitation patterns. Through video tutorials, diagrams, text, and tools, the App guides one through determining the size and placement of the garden, selecting plants, digging and planting the garden, and maintaining the garden. It also includes tools for determining soil type, measuring the size of the area that will drain to the garden, and managing multiple rain garden projects	http://www.google.com/url?q=http%3A%2F%2Fnemo.uconn.edu%2Ftools%2Fapp%2Fraingarden.htm&sa=D&sntz=1&usg=AFQjCNEbsydA6A67nZ8E6C4ogbX7PUA-zw	Nancy Balcom

Sea Grant Program	Title	Summary	website	POC
Connecticut	**Cost-Efficient Climate Change Adaptation in the North Atlantic Report**	A report from Sea Grant and the NOAA North Atlantic Regional Team (NART) identifies some best practices that communities can use locally for adapting to climate change. "Cost-Efficient Climate Change Adaptation in the North Atlantic" is a compilation of best practices shared by towns and cities willing to share the steps that they have taken towards successful adaptation. The report can be found with an interactive map at http://seagrant.uconn.edu/CEANA/	http://www.google.com/url?q=http%3A%2F%2Fseagrant.uconn.edu%2FCEANA%2F&sa=D&sntz=1&usg=AFQjCNExDCERakiRzmiqA-ynPUzziccC7g	Nancy Balcom
Delaware	**Coastal Hazards and Community Resiliency in Delaware**	To help reduce Delaware communities' vulnerability to coastal hazards, the Delaware Sea Grant College Program, UD's Coastal Community Enhancement Initiative, and Delaware's Department of Natural Resources and Environmental Control have cooperated with the Delaware Emergency Management Agency to increase awareness of coastal hazards and provide communities information and resources that will improve societal, economic and personal resiliency to coastal hazards. The information provided in this document is intended to encourage development of projects and programs that will provide an effective means of educating not only the public, but also government official and communities about natural coastal hazards and associated mitigation measures. Download only. - See more at: http://www.deseagrant.org/products/coastal-hazards-and-community-resiliency-delaware#sthash.Zsz8leAY.dpuf	http://www.deseagrant.org/products/coastal-hazards-and-community-resiliency-delaware	Dr. Wendy Carey
Delaware	**Delaware Homeowners Handbook to Prepare for Natural Hazards**	More than 80 major storms have threatened Delaware's coast over the past three decades, putting lives and property at risk. The resource guides residents on practical measures that can keep them safe and minimize damage to homes and property. - See more at: http://www.deseagrant.org/products/delaware-homeowners-handbook-prepare-natural-hazards#sthash.UMI8mIJS.dpuf	http://www.deseagrant.org/products/delaware-homeowners-handbook-prepare-natural-hazards	Dr. Wendy Carey
Delaware	**Natural Hazard and Climate Change Adaptation Tool Kit for Delaware Communities**	Delaware communities are susceptible to a variety of natural hazards. Additionally, communities face an increasing degree of uncertainty related to the impacts that future climatic conditions may have on their areas. This toolkit was developed to assist communities in identifying planning, mitigation and adaptation opportunities that will help reduce vulnerabilities to natural hazards and climate impacts. - See more at: http://www.deseagrant.org/products/natural-hazard-and-climate-change-adaptation-tool-kit-delaware-communities#sthash.nbApkMca.dpuf	http://www.deseagrant.org/products/natural-hazard-and-climate-change-adaptation-tool-kit-delaware-communities	Dr. Wendy Carey

Sea Grant Program	Title	Summary	website	POC
Hawai‘i	**NOAA Sea Level Rise and Coastal Flooding Impacts Viewer for Hawaii**	Allows user to visualize potential impacts from sea level rise. Displays potential future sea levels; overlays social and economic data onto potential sea level rise; and examines how tidal flooding will become more frequent with sea level rise.	http://coast.noaa.gov/digitalcoast/tools/slr and http://coast.noaa.gov/digitalcoast/sites/default/files/uploaded/files/SLRViewerFAQ-HI.pdf?redirect=301ocm	Matthew J. Gonser
Hawai‘i	**Hawaii Climate Change Adaptation Planning (Act 83, 2014)**	Establishes an interacgency climate adaptation committee, lead by the Department of Land and Natural Resources (DLNR) and Office of Planning (OP), to develop a sea-level rise vulnerability and adaptation report addressing statewide impacts to 2050.	http://governor.hawaii.gov/blog/governor-signs-bill-addressing-climate-change-adaptation/	Matthew J. Gonser
Hawai‘i	**Navigating Change, Hawai‘i’s Approach to Adaptation**	A report for the first meeting of state, local and tribal leaders for President Obama’s Task Force on Climate Preparedness and Resilience. The report outlines Hawai‘i’s “vulnerability and vantage point,” describes leadership in the “face of climate change,” and presents recommendations and opportunities to “strengthen resilience with federal partners.”	http://governor.hawaii.gov/wp-content/uploads/2014/01/Navigating-Change-12914.pdf	Matthew J. Gonser
Hawai‘i	**Climate Change Impacts in Hawai‘i**	This report provides a basic summary of the observed and projected changes to Hawai‘i’s ecosystems and their resulting impacts for the state’s residents. The report focuses on five (5) systems: (1) marine ecosystems – (a) open ocean and (b) coral reefs and other nearshore habitats; (2) coasts and the built environment; (3) terrestrial ecosystems; (4) freshwater resources; and, (5) human health.	http://seagrant.soest.hawaii.edu/CCIH	Matthew J. Gonser
Hawai‘i	**NOAA Coastal Storms Program Projects**	This nationwide effort implemented in the Pacific Islands Region funded several projects that foster community resiliency through outreach, education, and product development.	http://seagrant.soest.hawaii.edu/csp/projects	Matthew J. Gonser
Hawai‘i	**NOAA Coastal Storms Program Coastal Inundation Risk and Vulnerability Study**	In an effort to comprehensively and accurately assess the risks of future coastal hazards and the vulnerability of the community, the project included the following key steps: (1) mapping of projected sea level rise (SLR) scenarios to provide a baseline assessment of the potential impacts of inundation due to SLR, (2) modeling and mapping potential coastal hazards under elevated sea level conditions, specifically (a) tsunami inundation and (b) hurricane storm surge inundation, and (3) a socio-economic exposure analysis of the above inundation zones, as well as a 500-year flood hazard zone. Final results due in October. – plus web viewer: http://oos.soest.hawaii.edu/pacioos/projects/slr/	http://seagrant.soest.hawaii.edu/csp/risk-and-vulnerability-assessment-sea-level-risk-impact-honolulu-hawaii	Matthew J. Gonser

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Hawai‘i	**Hawai‘i Coastal Hazard and Mitigation Guidebook**	The purpose of the guidebook is as a resource to reduce the risk to coastal development by planning for natural hazards such as erosion, flooding, tsunami, and hurricanes. The guidebook uses scientific and technically-based standards for hazard mitigation and provides recommendations for implementation (e.g., guidance, industry standards, policy and the use of existing regulations) that minimize burden to the regulated community.	http://seagrant.soest.hawaii.edu/hawaii-coastal-hazard-mitigation-guidebook	Matthew J. Gonser
Hawai‘i	**Sea-Level Rise and Coastal Land Use in Hawai‘i: A Policy Toolkit for State and Local Governments**	Identifies and explains key land use policy tools for state and local government agencies and officials to facilitate leadership and action in support of sea-level rise adaptation in Hawai‘i.	http://seagrant.soest.hawaii.edu/sea-level-rise-and-coastal-land-use-hawaii-policy-tool-kit-state-and-local-governments	Matthew J. Gonser
Hawai‘i	**Facing Our Future: Adaptive Planning for Sea-level Rise in Maui and Hawaii Counties**	Five recommendations are presented to provide a foundation for improving shoreline planning for coastal hazards, including seal level rise, at the local level.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/adaptive_planning.pdf	Matthew J. Gonser
Hawai‘i	**Hawai‘i’s Changing Climate**	“How is global warming influencing the climate in Hawai‘i? The purpose of this briefing sheet is to describe what is known in answer to this question as published in peer-reviewed scientific journals and in government reports and websites.”	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/ClimateBriefing__web.pdf	Matthew J. Gonser
Hawai‘i	**Climate Change in the Federated States of Micronesia**	“This study is an outgrowth of concern over the vulnerability of the Federated States of Micronesia (FSM) to sea-level rise and drought associated with climate change. The purpose is to identify climate risk and options in the FSM.”	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/execsummary_climatechangefsm.pdf	Matthew J. Gonser
Hawai‘i	**Climate Change and the Visitor Industry**	Details stakeholder outreach activities for the Climate Change and the Visitor Industry project, summarizing the state of knowledge of current and potential impacts of climate change on Hawai‘i’s tourism industry and coastal communities; identifying opportunities for adaptation and sustainability of the tourism industry; informing Hawai‘i’s decision-makers in the public and private sector of the potential impacts of climate change, and; providing an opportunity for the visitor industry stakeholders to provide feedback on the findings and assist in the identification of priority sectors for adaptation.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/hta-summary-analysis.pdf	Matthew J. Gonser

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Hawai‘i	**Natural Hazard Considerations for Purchasing Coastal Real Estate in Hawai‘i**	This guide focuses on basic question to consider as an investor in coastal real estate, emphasizing the importance of having an understanding of the potential risks and consequences of living on the ocean’s edge.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/Purchasing_Coastal_Real_Estate.pdf	Matthew J. Gonser
Hawai‘i	**Climate Change Law and Policy in Hawai‘i**	Provides a timeline of and descriptions for legislative actions related to climate change mitigation and adaptation in Hawai‘i.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/sm_climatechangelawandpolicy_1.pdf	Matthew J. Gonser
Hawai‘i	**Water Resources and Climate Change Adaptation in Hawai‘i**	Describes Hawai‘i’s water resources, identifies troubling trends (i.e., declining rainfall, reduced stream flow, increasing temperature, and rising sea level), and provides12 potential adaptive tools for adaptive management of those water resources.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/water_adaptation_final.pdf	Matthew J. Gonser
Hawai‘i	**Climate Change and Regulatory Takings in Coastal Hawai‘i**	In light of projected sea level rise and adaptation responses (i.e., accommodate, protect, and retreat), this paper examines the interactions among climate change, the regulation of shoreline development in Hawai‘i, and Constitutional law regarding unpermitted takings of private property for public benefit.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/web_climatechangeregulatorytakingshi_1.pdf	Matthew J. Gonser
Hawai‘i	**The Kailua Community Survey Report**	A report on resident’s attitudes, perceptions, preferences, and value s towards a variety of socio-environmental topics. The study is part of a regional beach management and climate change adaptation planning efforts, and informs implementation and future modification of the 2010 Kailua Beach and Dune Management Plan.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/web_kailuasurveyreport.pdf	Matthew J. Gonser

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Hawai‘i	**Kaua‘i Climate Change and Coastal Hazards Assessment (KC3HA)**	As a technical report for the Kaua‘i County General Plan update, the KC3HA looks to improve the community's resilience and preparedness to coastal hazards and changing climate through the better understanding and utilization of coastal hazard information and planning tools. The report compiles and summarizes available science-based coastal and climate hazard information to assist in information the General Plan update.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/web-8-18-14-kc3ha-final.pdf	Matthew J. Gonser
Hawai‘i	**Hawai‘i Boater's Hurricane and Tsunami Safety Manual**	Provides a summary of the actions boaters and other members of Hawai‘i's maritime community can take before, during, and after a hurricane or tsunami, to prepare for and mitigate the effects of these hazards.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/web-final_hurricaneboatersmanual_7-01-13.pdf	Matthew J. Gonser
Hawai‘i	**Climate Change and the Visitor Industry**	Helps to understand the magnitude of climate change impacts to Hawai‘i's tourism sector, the state's primary economic engine. Through an analytical approach, climate processes are identified along with their effects on ecosystem and human activities, the impacts on tourism resources, and feasible adaptation strategies.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/web-hta-climatechange-visitorindustry_0.pdf	Matthew J. Gonser
Hawai‘i	**Hawai‘i Homeowners Handbook to Prepare for Natural Hazards**	Helps homeowners prepare for a natural hazard so that risks to family and property may be reduced. The handbook focuses on tsunami, hurricane, earthquake, and flood hazards.	http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/web-newapp.homeownershandbooknatural_hazards.pdf	Matthew J. Gonser
Hawai‘i	**Pacific Islands Regional Climate Assessment (PIRCA)**	The PIRCA "is a collaborative effort aimed at assessing climate change indicators, impacts, and adaptive capacity of the Hawaiian archipelago and the US-Affiliated Pacific Islands."	http://www.pacificrisa.org/projects/pirca/	Matthew J. Gonser
Hawai‘i	**Sea Level Rise Hawai‘i**	Presentations, videos, and maps of multiple sea level rise scenarios for various coastal areas around the state. Resources include coastal erosion and groundwater penetration impacts.	http://www.soest.hawaii.edu/coasts/sealevel/	Matthew J. Gonser
Illinois-Indiana	**Local Decision Maker**	This web-based GIS decision system is designed to improve comprehensive land use planning so that economic, ecological, social, and cultural resources are integrated with future development in a sustainable way.	http://ldm.agriculture.purdue.edu/	Lisa Merrifield

Sea Grant Program	Title	Summary	website	POC
Illinois-Indiana	**Real Time Lake Monitoring**	Illinois-Indiana Sea Grant maintains a buoy off the coast of Lake Michigan in Indiana and will soon be installing a second buoy in waters on the Illinois side. The buoys are equipped with sensitive scientific instruments that help scientists, managers, and local community members understand how the lake works, how things look today, and how things will look in the future. Real time data is available at http://www.iiseagrant.org/buoy/index.html	http://www.iiseagrant.org/buoy/index.html	Lisa Merrifield
Illinois-Indiana	**The Beach Manager's Manuals**	This beach manager's manual provides the latest information and management strategies for harmful algal blooms, type E botulism outbreaks, and other topics in the future.	http://www.iiseagrant.org/catalog/water/algal_bloom.html; http://www.iiseagrant.org/catalog/glh/botulism.html	Lisa Merrifield
Illinois-Indiana	**Climate Change Planning**	Illinois-Indiana Sea Grant has a climatologist on staff who conducts workshops and interacts with local resource managers along southern Lake Michigan to help the region become more resilient. We have produced or participated in the creation of number tools to help communities.	http://www.iiseagrant.org/topic_climate.html	Lisa Merrifield
Illinois-Indiana	**The Great Lakes Legacy Act**	This congressional act provides matching funds to communities to speed up the pace of cleanup of contaminated sediments within Great Lakes Areas of Concern. IISG conducts workshops, provides local community support, and has developed numerous products including curriculums, economic development strategies, and fact sheets.	http://www.iiseagrant.org/topic_coastal.html	Lisa Merrifield
Illinois-Indiana	**Water Supply Planning Tools**	Lake Michigan provides a reliable supply of drinking water for a large population in the greater Chicago area of northeastern Illinois and northwestern Indiana, but is being tapped to its legal limit. Water supply planning can increase preparedness for droughts and climate change, reduce regional conflicts, and promote conservation. IISG has tools to help communities with sustainable water pricing, outdoor conservation, sample ordinances, etc.	http://www.iiseagrant.org/topic_watersupply.html	Lisa Merrifield
Illinois-Indiana	**River Restoration Workshop Series**	Since 2001, Illinois-Indiana Sea Grant has hosted workshops pertaining to various aspects of river and stream restoration, including dam removal. The River Restoration: Practices and Concepts workshops provide the opportunity to hear about the latest restoration projects from experts nationally as well as from the region, and communicate with other professionals with similar interests.	http://www.iiseagrant.org/water_quality/river_restore.html	Lisa Merrifield

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Illinois-Indiana	**Lawn to Lake**	Lawn and garden chemicals applied in the Lake Michigan basin can wind up in the water, polluting the lakes with pesticides and excess fertilizer. The program promotes healthy landscape practices, offering communities, landscapers, residents, and others, tips for maintaining healthy lawns and landscapes without over-relying on chemicals. We have a lawn care guidebook http://www.iisgcp.org/catalog/l2l/guidebook.html, and a suite of services the retail outreach materials (http://www.iisgcp.org/l2l/retailers.html). (We also have a rain garden manual to help with stormwater volume and local flooding http://www.iisgcp.org/catalog/l2l/LMrain_garden.html)	http://www.iisgcp.org/catalog/l2l/guidebook.html and http://www.iisgcp.org/l2l/retailers.html and http://www.iisgcp.org/catalog/l2l/LMrain_garden.html	Lisa Merrifield
Maine	**Maine's Climate Future Report**	This report considers past change over geologic time, recent evidence of accelerated rates of change, and the implications of continued climate change in Maine during the 21st century as a result of greenhouse gas emissions and their associated pollutants. Maine Sea Grant's Communication Coordinator, Catherine Schmitt worked with a multidisciplinary team to compile and edit the 2009 Report and several follow-up features on specific topics, and she is currently working on an update to the original report.	http://climatechange.umaine.edu/research/publications/climate-future	Catherine Schmitt
Maine	***NOAA COCA project, Promoting resilience to climate change for lobstermen and fisheries dependent communities through participatory system dynamics modeling***	This project includes three communities in ME, MA, and SC. In collaboration with partners, Maine Sea Grant and UMaine Extension have conducted interviews, Vulnerability and Consequences Adaptation Planning Scenarios (VCAPS), and Systems Dynamic (SD) modeling workshops in a lobster community to co-develop strategies and adaptations for improving their fishery, based on the impacts from climate change. The SD model will input the factors affecting their particular situation in order to develop best practices, and an adaptation ethic of "fish smarter, not harder." The Maine project was presented in a poster session at the October 2013 Regional Association of Research in the Gulf of Maine conference.	http://coast.noaa.gov/socialcoastforum/2014AbstractsandPPTs/Webler_ppt_pdf.pdf?redirect=301ocm	Esperanza Stancioff
Maine	**Cost-Efficient Climate Change Adaptation in the North Atlantic Report**	A new report from a year-long study from Sea Grant and the NOAA North Atlantic Regional Team (NART) identifies some best practices that communities can use locally for adapting to climate change. "Cost-Efficient Climate Change Adaptation in the North Atlantic" is a compilation of best practices shared by 34 towns and cities (ME to VA) willing to share the steps that they have taken towards successful adaptation. The report can be found with an interactive map at: http://seagrant.uconn.edu/CEANA/	http://seagrant.uconn.edu/CEANA/	Esperanza Stancioff

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Maine	**Maine Climate News Website**	Recognizing the need for a centralized, neutral source of climate information specific to Maine, University of Maine Cooperative Extension and Maine Sea Grant created Maine Climate News in partnership with George Jacobson, Maine State Climatologist, in 2009. The site is intended to be a portal to climate change science and research at the University of Maine and beyond, as well as a resource for news and climate-related activities throughout the state. The site is updated quarterly.	http://umaine.edu/maineclimatenews/	Esperanza Stancioff
Maine	**NOAA CCCAI project, Coastal Infrastructure Resilience in a Changing Climate**	With funding from CCCAI, Maine Sea Grant/UMaine Extension and UMaine researchers working with the City of Ellsworth have been co-developing adaptation planning tools for decision making, mapping complex governance structures for stormwater infrastructure, downscaling modeling of extreme storm events for including seasonal changes affecting timing for city maintenance of stormwater infrastructure, developing simple scenario interactive mapping to assist in determining priorities, educational materials developed for residents on stormwater, and completing and airing of the documentary produced by MPBN, "Culvert Operations."	http://www.mpbn.net/Television/LocalTelevisionPrograms/SustainableMaine/AllEpisodes/tabid/1480/ctl/ViewItem/mid/5132/ItemId/30083/Default.aspx	Esperanza Stancioff
Maine	**Coastal Hazards Guide**	This online Guide was created by Maine Sea Grant to help coastal property owners and municipal officials identify features and different types of hazards on the Maine coast, and evaluate potential responses and actions. This guide is an outcome of the project, Coastal Community Resilience: Developing and Testing a Model of State-based Outreach. http://www.seagrant.umaine.edu/extension/coastal-community-resilience	http://www.seagrant.umaine.edu/coastal-hazards-guide	Kristen Grant & Esperanza Stancioff
Maine	**Southern Maine Beach Profile Monitoring Program**	Beach profiling is a simple surveying technique used to measure changes in the contour of the monitored beach. The Southern Maine Volunteer Beach Profile Monitoring Program is a unique collaboration among local volunteers, participating municipalities, and scientists, resulting in 15 years of critical data on the status of one of Maine's most vital and valuable natural resources.	http://www.seagrant.umaine.edu/extension/beach-profile-monitoring/home	Kristen Grant
Maine	**Coastal Property Owner Tours**	Maine Sea Grant has organized a number of tours, during which Southern Maine coastal property owners, local officials, and community members visit coastal properties in Saco, Wells, and Ogunquit where action has been or could be taken to make them more resilient to flooding, erosion, and extreme storm events.	http://www.seagrant.umaine.edu/extension/coastal-community-resilience/tours	Kristen Grant & Esperanza Stancioff
Maine	**Maine Beaches Conference**	The Maine Beaches Conference provides continuing opportunities for communication and exchange of the most current information among beach stakeholders with diverse interests, and presents the findings from the state's beach monitoring programs.	http://www.seagrant.umaine.edu/maine-beaches-conference	Kristen Grant

Sea Grant Program	Title	Summary	website	POC
Maine	**Building a Resilient Coast video**	This video was created for Maine citizens to hear and see what their neighbors, town officials, and local scientists have to say about sea-level rise, coastal flooding, and erosion; what it means to them; and what individuals can do about it in the five-part documentary, Building a Resilient Coast: Maine Confronts Climate Change, produced in partnership with Oregon Sea Grant.	http://www.seagrant.umaine.edu/program/sarp	Kristen Grant & Esperanza Stancioff
Maine	**Assessing Vulnerability and Resilience in Maine Fishing Communities**	This project developed a participatory, place-based approach for assessing the vulnerability and resilience of Maine fishing communities, documenting threats and resources available to respond to those threats. To understand the forces driving vulnerability, Johnson and graduate students Cameron Thompson and Anna Henry worked with community stakeholders to identify opportunities and strategies for improving resilience of fishing communities. They produced a summary report, entitled, “In Their Own Words: Fishermen’s Perspectives of Community Resilience.” http://www.seagrant.umaine.edu/files/pdf-global/InTheirOwnWords_062314.pdf	http://www.seagrant.umaine.edu/research/projects/fishing-community-resilience	Dr. Teresa Johnson
Maine	**The Sandy Dialogues workshop series**	This workshop series featured municipal officials who survived Superstorm Sandy and Maine municipal officials and residents from Wells, Saco and Old Orchard Beach who traveled to New Jersey to see the aftermath of the storm first hand. During "The Sandy Dialogues" workshops in Wells and Saco presenters shared personal experiences about the storm, its aftermath and recovery.	http://www.wellsreserve.org/writable/files/ctp/sandy_dialogues_agenda.pdf	Kristen Grant & Esperanza Stancioff
Maine	**Northeast Coastal Acidification Network**	Maine Sea Grant is a member of the steering committee for the Northeast Coastal Acidification Network planning a series of 10 Ocean Acidification Webinars, a synthesis of the State of the Science, culminating in a State of the Science workshop followed by Stakeholders workshops to develop an Ocean Acidification plan for the region (Long Island Sound to Nova Scotia).	www.neracoos.org/necan	Esperanza Stancioff
Michigan	**Ecofore Website about Lake Erie Hypoxia**	Ecological forecasting of hypoxia assessments in Lake Erie. The project created, tested and applied models to forecast how anthropogenic (land use, invasive species) and natural (climatic variability) stresses influence hypoxia formation and ecology, with an emphasis on fish production. This research was funded by the Center for Sponsored Coastal Ocean Research (CSCOR) of the National Oceanic and Atmospheric Administration (NOAA).	http://ecofore.org	Elizabeth LaPorte
Michigan	**Coastwatch: Great Lakes Surface Water Temperatures**	A customized user interface for the NOAA CoastWatch data reporting system, evolving as a cooperative project between the NOAA CoastWatch Great Lakes Regional Node (NOAA GLERL) and the Great Lakes Sea Grant Network. Created & maintained by Michigan Sea Grant and the MSU Remote Sensing & GIS Research and Outreach Services.	http://www.coastwatch.msu.edu/	Elizabeth LaPorte

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Michigan	**Beach and Nearshore Water Quality Forecasting Tool**	The Great Lakes Beach, Tributary, and Nearshore Water Quality: Hydrologic and Hydrodynamic Data and Model Assimilation website hosts a water quality forecasting system for use at targeted beaches throughout the Great Lakes. The system can be used to by local authorities to improve capability to forecast water quality conditions which may lead to a violation of fecal indicator bacteria (FIB) based water quality standards and present a risk to human health.	http://www.glerl.noaa.gov/res/waterQuality/nearshoreFIB/	Elizabeth LaPorte
Michigan	**Clean Marina Classroom: Increasing Resiliency Unit**	With funding from the Great Lakes Integrated Sciences and Assessments center, Michigan Sea Grant led a team in developing a new unit for the Clean Marina Classroom (an online training tool for marina, harbor and boatyard operators in pursuing Clean Marina certification). The unit provides resources for infrastructure, dredging, adaptation planning and financing in the context of increasing resiliency to climate impacts. Project activities and outcomes have assisted operators with sector-specific problem identification, decision making, and planning related to climate change adaptation.	http://www.miseagrant.umich.edu/clean-marina-classroom/ - password protected, public components pending	Elizabeth LaPorte
Michigan	**Great Lakes Current Incident Database**	Public website with National Weather Service data used by media, resource managers (parks staff), citizens and first responders to relay information on dangerous currents.	http://www.miseagrant.umich.edu/dcd/dcdsearch.php	Elizabeth LaPorte
Michigan	**Climate Fact Sheet Series**	Four fact sheets addressing distinction between weather and climate, preparing for extreme conditions, variable lake levels, and climate variability.	http://www.miseagrant.umich.edu/explore/climate-weather-and-the-great-lakes/	Elizabeth LaPorte
Michigan	**Environmental Response Management Application (ERMA) Tool**	Michigan Sea Grant website to host Great Lakes ERMA®, an online mapping tool for coastal pollution cleanup, restoration, and response efforts in the Great Lakes Basin, from Minnesota to New York in the United States and from Ontario to Quebec in Canada.	http://www.miseagrant.umich.edu/explore/coastal-communities/preparing-for-disasters/	Elizabeth LaPorte
Michigan	**Online Decision Support Tool about Climate Change and Whitefish**	Decision-support tools help make decisions on managing a key fishery by incorporating information, accounting for uncertainties, or evaluating trade-offs between alternative choices.	http://www.miseagrant.umich.edu/explore/fisheries/climate-change-whitefish/decision-support/	Elizabeth LaPorte
Michigan	**Climate and Water Quality Diagram**	Used for public outreach to show interaction of climate, water quality, land use and invasive species.	http://www.miseagrant.umich.edu/nsf/	Elizabeth LaPorte

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Michigan	**Hydrologic Model of Clinton River Impoundments**	An integrated assessment research project and deliverables to support Clinton River watershed decision-makers in water resources management. Model developed has helped authorities evaluate various scenarios for how to move water through the network of impoundments.	http://www.miseagrant.umich.edu/research/past-projects/clinton-river/	Elizabeth LaPorte
Michigan	**Torch Lake Contamination Fact Sheets, Map and PCB model**	An integrated assessment research project and deliverables to provide decision-makers input on how to remediate or mitigate any remaining problems. Produced information to help evaluate potential solutions, including maps illustrating sites with high PCBs and copper and models indicating likely sources of ongoing contamination.	http://www.miseagrant.umich.edu/torchlake/	Elizabeth LaPorte
Michigan	**Beach Managers Manual about Harmful Algal Blooms**	An introduction to the organisms and processes that lead to harmful algal blooms in the Great Lakes. The manual and associated website also link beach managers to additional Sea Grant fact sheets and NOAA forecasting tools.	http://www.miseagrant.umich.edu/wp-content/blogs.dir/1/files/2012/05/12-502-HAB-booklet.pdf and http://www.miseagrant.umich.edu/explore/coastal-communities/harmful-algal-blooms-in-the-great-lakes	Elizabeth LaPorte
Michigan	**Climate Ready Great Lakes Modules**	Climate Ready Great Lakes consists of three modules designed to help create a Great Lakes region that is “climate ready.” Toward this end, these modules provide stakeholders and decision makers with clear information about Great Lakes climate, as well as what we need to adapt to, why, and how. This project was a collaboration between the Great Lakes Sea Grant Network, the University of Michigan School of Natural Resources and Environment, and NOAA Great Lakes Regional Collaboration Team.	http://www.regions.noaa.gov/great-lakes/index.php/resources/climate-ready-great-lakes/	Elizabeth LaPorte

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Mississippi-Alabama	**Gulf of Mexico Climate Community of Practice**	The Climate Community of Practice brings together extension, outreach and education professionals and community officials in the Gulf to learn how coastal communities can adapt to sea-level rise, precipitation changes and other climate-related issues. Participants work together to become better equipped with reliable information and science-based guid-ance regarding the level of risk to their communities and strategies they can use to adapt to climate change. The group funded a Community Needs Assessment on perceptions of climate change by Gulf residents and used the findings to inform their messaging to communities. The group sponsors webinars, professional development trainings, and small grant funding opportunities to enhance the understanding of climate related stressors and identify best adaptation practices that can be used to mitigate future climate conditions.	http://masgc.org/climate-outreach-community-of-practice/summary	Steve Sempier
Mississippi-Alabama	**Coastal Community Resilience Index**	Gulf coastal communities expressed the need for baseline data they could use to assess how they are progressing towards their goals to become more resilient. This self-assessment tool helps communities identify vulnerabilities, capitalize on strengths, and assess future impacts of natural disasters. It has been completed by 47 communities across the Gulf of Mexico with 74 facilitators trained to deliver the tool and provide technical assistance to the communities in which they live and work. An accompanying small grants program provides communities financial resources needed to address action items identified in the self-assessment.	http://masgc.org/coastal-storms-program/resilience-index	Steve Sempier
Mississippi-Alabama	**Mississippi-Alabama Sea Grant Legal Program**	The Mississippi-Alabama Sea Grant Legal Program, a component of the Mississippi-Alabama Sea Grant Consortium's Outreach Program, provides legal research, education, and outreach services to coastal communities in Mississippi, Alabama, and throughout the Gulf of Mexico. The Legal Program's staff attorneys provide valuable law and policy expertise, training, and technical assistance to communities on a range of issues related to coastal resiliency, including shoreline management, flood insurance, stormwater management, and climate change.	http://masgc.org/law-and-policy/mississippi-alabama-sea-grant-legal-program	Steve Sempier
Mississippi-Alabama	**Financial Resilience Manual**	Many local governments are not financially prepared with available resources to address the short-term and long-term issues of recovery and reconstruction. This decision support tool can be used to identify the optimal policy alternative to allocate financial reserves necessary for local governments along the coast to minimize the financial burden of cleanup, recovery, and reconstruction costs from future tropical storm events. The manual Community Decision Support to Local Governments in Budget Planning Under Coastal Risk has been used to train extension professionals along the Gulf coast and the practices have been implemented in at least two Gulf communities.	http://nsgl.gso.uri.edu/masgc/masgch11001.pdf	Steve Sempier

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Mississippi-Alabama	**Homeowners Handbook to Prepare for Natural Disasters**	Designed specifically for homeowners, this is a critical resource for anyone wanting to reduce the risks to both their family and property from the threats of natural hazards. The handbook covers basic information on emergency preparedness, evacuation planning, flood/wind insurance, and steps to take to protect your property. All five Gulf states have developed these handbooks and disseminated them through various avenues including emergency management agencies, home improvement stores, and community festivals.	http://stormsmart.org/handbook/	Steve Sempier
MIT Sea Grant	**MIT Sea Grant Climate Change Web Site**	MIT Sea Grant Climate Change Web Site features resources that promote climate literacy, along with tools useful for assessing vulnerability and improving planning processes. An overview of the 2014 MIT Climate Change Symposium is also found on the web site. Coastal Erosion Monitoring (partnership with UMASS Boston)	http://seagrant.mit.edu/climate_change.php	Robert Vincent
MIT Sea Grant	**Climate Change Symposium on Sustaining Coastal Cities**	MIT Sea Grant works with local community leaders to assess climate impact threats to public safety and infrastructure, and identify local adaptation strategies. In addition, MITSG recently hosted the Climate Change Symposium on Sustaining Coastal Cities, a three-day conference that brought together regional partners and stakeholders from academia, non-profit organizations, federal, state, and local governments, to discuss major issues and facilitate regional collaborations. A white paper is expected summarizing the key issues discussed during symposium.	http://seagrant.mit.edu/conferences/CCS2014/	Robert Vincent
MIT Sea Grant	**Massachusetts Homeowner's Handbook to Prepare for Coastal Hazards**	The Massachusetts Homeowner's Handbook to Prepare for Coastal Hazards provides guidance on the hazards of coastal living in a changing climate. The handbook provides tools and resources useful in helping communities mitigate coastal impacts.	https://seagrant.mit.edu/pubs_desc.php?media_ID=2224	Robert Vincent
New Hampshire	**SG Law Center Funded Legal Research Report**	Sea Grant coordinated a project to explore the legal authority, measures and consequences associated with the use of new 100 year floodplain maps by coastal communities in N.H. The legal research was conducted by faculty and students from Vermont Law School and the findings were initially shared at a public forum in 2012. 2013 provided several opportunities to share the study results with community leaders who are interested in better managing floodplains and reduce their risk to legal challenges.	http://100yearfloods.org/resources/pdf/2012_VermontLawSchool_LampreyRiverReport.pdf	Julia Peterson
New Hampshire	**Nitrogen Sources Newsletter**	Inspired by local research and concern over nitrogen sources in Great Bay, the goal of this newsletter is to provide easy-to-understand science-based information on non-point sources of nitrogen to local decision-makers, resource managers, organizations, and Seacoast community members. It is sent quarterly or in concert with the release of major research findings. In 2012, NHSG staff became the primary editor of this newsletter that now reaches over 125 readers throughout the region.	http://extension.unh.edu/resources/resource/2984/Great_Bay_Nitrogen_Sources_Newsletter_Fall_2012	Julia Peterson

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New Hampshire	**The Crow's Nest Electronic Newsletter**	"The Crow's Nest" is an electronic newsletter about climate adaptation in New Hampshire. This quarterly (which is archived at The Crow's Nest blog on StormSmart Coasts) was developed by NH Sea Grant to communicate to concerned citizens, town officials, and the private sector about local adaptation projects, resources, events, and information.	http://nh.stormsmart.org/	Julia Peterson
New Hampshire	**StormSmart Coasts website**	This site serves as a "resource for coastal decision makers looking for the latest and best information on how to protect their communities from weather and climate hazards" (http://stormsmartcoasts.org/). The StormSmart Coast website is searchable by state and houses state-specific information. N.H. Sea Grant is a member of the N.H. Coastal Adaptation Workgroup which provides content for New Hampshire's pages and is an active contributor, as well as serves on the website working group.	http://nh.stormsmart.org/	Julia Peterson
New Hampshire	**The Crow's Nest Blog**	"The Crow's Nest" blog is about climate adaptation in New Hampshire. Since 2011, NH Sea Grant has helped to develop and contribute to the blog, which is available on StormSmart Coasts, as a tool to communicate timely information about events and resources available to communities related to adaptation. The Crow's Nest blog serves as a dynamic supplement to the newsletter to provide updates and news between quarterly newsletter issues.	http://nhblog.stormsmart.org/	Julia Peterson
New Hampshire	**Water, Weather, Climate and Community**	Water, Weather, Climate and Community is a workshop series that NH Sea Grant delivers with partners in the N.H. Coastal Adaptation Workgroup for community leaders wishing to learn more about climate adaptation and meet others with similar interests. Two workshops per year have been delivered since the coalition started working together in 2010.	http://nhblog.stormsmart.org/past-workshops/	Julia Peterson
New Hampshire	**NH SG's Facebook and Twitter**	NH SG's Facebook and Twitter accounts were used to share information about a SG Law Center funded project that provided legal research about the measures, consequences and options of "new" 100 year floodplains. NH SG staff coordinated the integration of the legal research into the floodplain mapping project.	http://seagrant.unh.edu/news/adoptionnewfloodplainmaps	Julia Peterson
New Hampshire	**Lawn care information sheet and brochure**	These tools are the result of a multi-state, integrated SG /Cooperative Extension coordinated project that supported both turf and social science research to reduce nitrogen losses from turf care and maintenance by do-it-yourselfers. An 8.5 X11 inch digital version of the info sheet was developed and made available through the SG website and printable.	http://seagrant.unh.edu/sites/seagrant.unh.edu/files/media/pdfs/extension/lawncare_information_sheet.pdf	Julia Peterson

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New Hampshire	**Protecting Water Resources and Managing Stormwater**	This is an outreach tool produced by N.H. Sea Grant in collaboration with the UNH Stormwater Center and UNH Cooperative Extension. It is designed to guide communities through a range of strategies from landscape to plot level for water quality protection. The information provides the basis for a variety of outreach activities, especially for local decision makers. It continues to be distributed through various training and education events.	http://seagrant.unh.edu/sites/seagrant.unh.edu/files/media/pdfs/extension/pwrms_finaldraft.pdf	Julia Peterson
New Hampshire	**The Watershed Game**	The Watershed Game is an interactive tool that was developed by the Northland NEMO program to help participants understand the connection between land use and water quality, as well as the degree to which implementing best management practices across land uses and sectors within a watershed is critical for reaching a water quality goal. The tool continues to be used in workshops and trainings led by NH Sea Grant.	http://www.northlandnemo.org/watershedgame.html	Julia Peterson
New Jersey	**Coastal Community Climate Adaptation Initiative Tools**		http://www.state.nj.us/dep/cmp/czm_hazards.html and http://www.state.nj.us/dep/cmp/docs/ccvamp-final.pdf and http://www.state.nj.us/dep/cmp/docs/gtr-resilience.pdf	Pete Rowe
New Jersey	**New Jersey's Coastal Community Vulnerability Assessment and Mapping Protocol**	GIS layering tool to assess a community's vulnerability.	http://www.state.nj.us/dep/cmp/docs/ccvamp-final.pdf	Pete Rowe
New Jersey	**Getting to Resilience**	A survey instrument that helps a community characterize its resilience through the connectivity of the community's various planning documents. The survey and cookbook version can be obtained at http://www.state.nj.us/dep/cmp/docs/gtr-resilience.pdf An active digital version of the survey with additional technical and training support can be found at the Jacques Cousteau National Estuary Research Reserve's website http://www.prepareyourcommunitynj.org/	http://www.state.nj.us/dep/cmp/docs/gtr-resilience.pdf	Pete Rowe

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New Jersey	**New Jersey Coastal Community Resilience Demonstration Project: pilot communities: Cape May Point, Little Silver, Oceanport**	Coastal communities across the nation are faced with the challenge of how to adapt to coastal inundation associated with climate change and sea level rise. As part of the National Sea Grant Coastal Communities Climate Adaptation Initiative (CCCAI), the New Jersey Sea Grant Consortium (NJSGC) and its partners, New Jersey Department of Environmental Protection Office of Coastal Management (NJOCM), Monmouth University Urban Coast Institute (UCI) and Stevens Institute of Technology, conducted community-based, climate adaptation demonstration projects in Cape May Point, Little Silver and Oceanport, New Jersey. The objective of these projects was to provide the participating communities with an assessment of their vulnerabilities to help local decision-makers identify opportunities to improve their resiliency to coastal hazards and sea level rise. In order to accomplish this goal, virtual mapping was used to illustrate the potential scenarios for coastal inundation along with facilitated questionnaires that evaluated the communities' existing planning strategies. The findings from these tools were presented to the communities and are summarized in this report.	https://eos.ucs.uri.edu/EOS_Linked_Documents/njsgc/njsgct10001.pdf	Pete Rowe
Oregon	**Social science research**	Oregon Sea Grant has a number of social scientists amongst our faculty and staff skilled in conducting survey, interview, and other forms of social science research. We recently conducted mental models interviewing training and survey research training for extension agents around the U.S. Additionally, we support a number of social scientists, including Lori Cramer who is currently conducting a project doing vulnerability analyses along the coast. We have also worked with Nate Wood of USGS on a linked social and physical vulnerability assessment project on the north coast of Oregon.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.noaa.gov%2FPortals%2F0%2FDocuments%2Fwhat_we_do%2Fclimate%2Fdocuments%2FSea%2520Grant_Climate%2520Field%2520Notes.pdf&sa=D&sntz=1&usg=AFQjCNEvg3dyJkNe3DUeNUaQwHM3TQwQ2A	Lori Cramer

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Oregon	**Decision support networks**	On the ground resilience planning often requires the inclusion of up-to date scientific and technical information embedded in a stakeholder-centered communication process. Along this line, we offer facilitation services that guide dialogue in the process of making important decisions about coastal planning and we serve as a bridge between university resources and local end users. Oregon Sea Grant helps decision makers identify the information they need and the hurdles they are encountering on the way to making sound decisions, and as appropriate, connects them with relevant research and researchers. We have worked with communities on their comprehensive planning, and in the process of developing new zoning regulations. (More information here.) . Our hazard resilience extension faculty, Pat Corcoran, participates in numerous projects at state and local levels. We have also been involved in projects using the Envision model developed by John Bolte of OSU, which allows communities to engage in a meaningful scenario planning process.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.oregonstate.edu%2Fcoastal-erosion&sa=D&sntz=1&usg=AFQjCNHEA1eCxjVYsqM6KPS482iJ9YzJNw	Pat Corcoran
Oregon	**Communication products**	Oregon Sea Grant's list of publications and videos tops 300 items and among them are materials addressing this issue area. Joe Cone, Communications leader, has led five projects (three of them with other SG states) focused on coastal climate resilience. The Communications office is currently completing a video series offering insights from researchers and practioners on climate resilience on the West Coast. These add to previous videos on climate resilience in Oregon and Maine, produced with NOAA funding. We also published Coastal Resilience, a report documenting an expert panel discussion we held on the topic of resilience in 2010, and we published the technical book, Pathways to Resilience: Sustaining Salmon Ecosystems in a Changing World, which was largely the result of a national conference of the same name that we hosted in 2007.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.oregonstate.edu%2Fsgpubs%2Fpathways-resilience&sa=D&sntz=1&usg=AFQjCNEc4EiLoBKNyocLy6sGzQltozpoyg, http://www.google.com/url?q=http%3A%2F%2Fseagrant.oregonstate.edu%2Fsgpubs%2Fonlinepubs%2Fw10001.pdf&sa=D&sntz=1&usg=AFQjCNF3W375NlrVr1yjMSFeFisIfgJTJg	Joe Cone

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Rhode Island	**North Kingstown Coastal Resilience Pilot**	A model document for incorporating coastal hazards and climate change into state mandated Local Comprehensive Planning, together with maps that assess vulnerability, and recommendations based on lessons learned from other places for the community to adapt to rising seas. A model process will illustrated how municipal officials, staff, and volunteer boards can take action for a resilient future as they consider the built environment, natural environment and the economic climate within their comprehensive plan, hazard mitigation plan, their capital improvement program, and their transportation improvement program. Document and process are under review to be released later this fall.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.gso.uri.edu%2Fprojects-2%2Fnorth-kingstown-building-coastal-resilience%2F&sa=D&sntz=1&usg=AFQjCNGBSFMcCh-DmwPf5C_YZl9wKByabA	Pam Rubinoff
Rhode Island	**Sea Level Rise Visualization**	Overlays of slr bathtub inundation for the state. These are crude estimates and are used as a first cut estimate for where slr impacts will occur.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.gso.uri.edu%2Fprojects-2%2Fnorth-kingstown-building-coastal-resilience%2F&sa=D&sntz=1&usg=AFQjCNGBSFMcCh-DmwPf5C_YZl9wKByabA	Pam Rubinoff
Rhode Island	**Building Capacity to Adapt to Climate Change through Local Conservation Efforts**	It is important for local conservation organizations, such as land trusts and watershed associations, to consider the reality of a changing climate. Using South Kingstown Land Trust as a pilot, tools have been identified for use by local conservation organizations in Rhode Island and beyond to assess vulnerability and identify strategies to begin to implement adaptation actions through conservation, management, and investment.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.gso.uri.edu%2Fprojects-2%2Fsouth-kingstown-conservation-and-climate-change%2F&sa=D&sntz=1&usg=AFQjCNHqtmAqQQQXnMwoXm7pN1gb6_Gocw	Pam Rubinoff

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Rhode Island	**Sea Level Affecting Marshes Model Maps**	SLAMM maps, to be put on WWW in October for all 21 coastal communities. This is being adopted for "planning purposes" by the State Coastal Resources Management Council. In addition to map, guidance on how to use these to prioritize and protect migrating corridors to allow wetlands to move upland with increased sea level rise. Outreach and training for all 21 coastal communities will be completed by the end of October.	http://www.google.com/url?q=http%3A%2F%2Fseagrant.gso.uri.edu%2Fprojects-2%2Fwetland-conservation-against-sea-level-rise%2F&sa=D&sntz=1&usg=AFQjCNEHB68yPeRRLA7toubQILMJbFDPhA	Pam Rubinoff
Rhode Island	**Shoreline Change Special Area Management Plan**	To address challenges from a changing shoreline, the R.I. Shoreline Change Special Area Management Plan (Beach SAMP) is focused on improving our understanding of how fast erosion is occurring and what areas and infrastructure are at risk of flooding during storms or from future sea level rise. This plan will improve state policies to better address the impacts of shoreline change.	http://www.google.com/url?q=http%3A%2F%2Fwww.beachsamp.org%2F&sa=D&sntz=1&usg=AFQjCNFcbn8-aayyH5XZkTeTQrOKXBxpKA	Pam Rubinoff
Rhode Island	**Coastal Property Guide**	a publication and www tool for property owners, navigating them through 10 key questions related to issues from coastal erosion and sea level rise, to buffers and septic systems.	http://www.google.com/url?q=http%3A%2F%2Fwww.beachsamp.org%2Fcoastalpropertyguide%2F&sa=D&sntz=1&usg=AFQjCNHMh1hygcCsqH8ry3IEoZXrKa5ulw	Pam Rubinoff
Texas	**The Texas Coastal Planning Program (CPP)**	The Texas Coastal Planning Program (CPP): provides education, outreach, and technical assistance to coastal communities with limited planning capacity. The program also conducts research on coastal planning, policy, and management. The program offers communities help with planning processes. CPP helps community leaders through workshops that help them determine their readiness and plan for future needs with respect to coastal hazards, green infrastructure, water quality impairment and other issues related to sustainable development.	http://aransascharm.org/	Heather Wade

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Texas	**The Texas Coastal Citizen Planner program (TCCP)**	The TCCP program provides elected and appointed officials the knowledge and skills necessary to make informed land use decisions that lead to long-term hazard management, natural resource conservation, safer neighborhoods, and improved quality of life. Everyday officials from state, regional, and local governments are confronted with planning decisions–large and small–that will shape how their communities grow and develop. This program is designed to provide a broad-based planning curriculum led by planners and researchers and focusing on issues important to Texas communities.	http://citizenplanner.tamu.edu/	John Jacob
Texas	**CHARM Model**	CHARM is a robust citizen planning tool, built on CommunityViz and ARCMAP, that enables citizens and professionals alike to explore large and small development scenarios that reveal impacts, instantaneously, to the environment by the development, as well as impacts to the development (e.g., storm surge). CHARM hosts a number of climate change and coastal hazards algorithms, which changed on the fly during a scenario. The genius of Coastal CHARM is that it uses high tech, but gets the technology completely out of the way of the participants.	http://tcwp.tamu.edu/charm/	John Jacob
Texas	**The weTable**	Using infrared technology the weTable transforms an ordinary tabletop into an interactive interface. This affordable public participation tool allows teams to collaboratively explore and use computer-based data and programs in a workshop setting. The weTable enhances what people use daily–tables and pens– while the supporting technology works quietly in the background. This means that participants can use the interface with very little instruction, and it allows them to work with what matters most in a meeting- data, maps, and their fellow participants.	**http://tcwp.tamu.edu/charm/we-table/**	John Jacob
Virginia	**FutureCoast Sea Level Rise Web-Based Tool**	This was developed through a mid-Atlantic SLR project we secured from CSC. It was applied in Annapolis, and they explored its application in Hampton Roads, but it was too early in the evolution of the issues in HR to use here. That is, this tool shows climate impacts at the individual lot level and the HR citizenry and local elected officials were not ready to see, hear, realize that then (~2011). We are ready now and because we took an incremental approach with our community, we have been able to leap frog some of the challenges that NC faced and later this fall we will be holding a workshop with the real estate community.	http://www.futurecoast.info/	Troy Hartley
Virginia	**Resiliency Design project in Hampton Roads**	The lead coordinating organization is Wetlands Watch, worTking with architects at Hampton University, builders from the Hampton Roads Green Building Council, Urban Land Institute, and a suite of engineers. They are focused on Chesterfield Heights neighborhood in Norfolk, and will be creating specific designs for a more resilient Chesterfield Heights.	http://www.wetlandswatch.org/WetlandScience/SeaLevelRise/AdaptationDesign.aspx	Skip Stiles

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Virginia	**Virginia Coastal Policy Clinic, William & Mary Law School**	VASG has a legal program now and they have been focusing on resiliency issues—conducting legal and policy research for local community clients on issues such as flood insurance, community rating systems, potential disclosure issues, potential local community liability risk associated with not taking adaptation steps. They have also provided analysis to the Governor's Climate Commission that is currently underway and the General Assembly's Secure Commonwealth Panel that finished up work last month.	https://www.facebook.com/VirginiaCoastalPolicyClinic	Roy Hoagland
Virginia	**Faculty of Practice, ODU, Climate Adaptation and Resiliency**	Michelle Covi was hired in January 2014 and is conducting outreach activities with the Hampton Roads, Eastern Shore, and most recently Middle Peninsula communities. She hosts a quarterly Forum meeting in Hampton Roads that brings scientists and local planners and emergency managers together to explore specific topics identified by the local planning community, e.g., the last Forum presented the myriad flooding/climate models and viewers, discussing the strengths and limitations of each and their applications for local decision-making. She sits on climate steering committees on the Eastern Shore and is conducting the workshop for the real estate community on the Eastern Shore, in collaboration with the Policy Clinic.	https://www.odu.edu/research/initiatives/ccslri	Michelle Covi
Washington	**Community-based Sea Level-Rise Projections**	Washington Sea Grant partnered with the Jamestown S'Klallam Tribe and Adaptation International to develop a set of local sea level rise projections, and sea level scenario maps for the Jamestown S'Klallam community. The assessments are being used to identify priority adaptation actions, tribal areas or resources that are particularly vulnerable to sea level rise, and have also been integrated into community long-term planning. Additionally, Washington Sea Grant is partnering with North Olympic Peninsula Resource Conservation District and Adaptation International on a multi-sector climate change vulnerability assessment and adaptation plan, including sea level rise and coastal flooding projections for coastal communities in Clallam and Jefferson Counties.	http://sanctuaries.noaa.gov/science/conservation/cc_ocnms.html	Ian Miller
Washington	**Green Shores for Homes**	With funding from the EPA, Sea Grant partners with the City of Seattle among others to offer an incentive and certification credit system developed for single family homes. The goal of this voluntary program is to develop shoreline sustainably, using green vs. grey infrastructure whenever possible	http://wsg.washington.edu/communications/seastar/stories/a_11.html	Nicole Faghin

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Washington	**Sea Level Rise Outreach**	Washington Sea Grant, in partnership with the Jamestown S'Klallam Tribe and the University of Washington Program on the Environment, is developing an outreach plan for a group of homes on the Strait of Juan de Fuca, Washington State, that have been identified as highly vulnerable to sea level rise and coastal flooding. The outreach plan will try to identify ways to work with homeowners to identify options that will both protect their infrastructure and investment, while avoiding hard armoring and shoreline engineering.	http://www.coastaltraining-wa.org/Course-Catalog/ShorelineAnd-Environmental-Laws-And-Administrativ/Sea-Level-Rise-AdaptationOpportunities-for-Plann/71.aspx	Jamie Mooney
Washington	**Coastal Training Program**	Sea Level Rise Adaptation Course: WSG, in collaboration with the Climate Impacts Group and the Department of Ecology offered a course through the Padilla Bay NERR's Coastal Training Program on sea level rise adaptation. Building on the 2008 basic climate change course, this SLR course offered up to date scientific projections on SLR rates in the PNW, in addition to methods to effectively communicate climate change, various planning opportunities in WA, and examples of what others around the US have done. This course is the second in a series of climate adaptation courses	http://www.coastaltraining-wa.org/Course-Catalog/Shoreline-And-Environmental-Laws-And-Administrativ/Sea-Level-Rise-Adaptation-Opportunities-for-Plann/71.aspx	Jamie Mooney
Washington	**Septic Sense and Septic Social Workshops**	These workshops are designed to bring confidence to homeowners and businesses so that they can properly manage their on-site sewage systems. The workshops focus on the monitoring and maintenance of septic systems during all conditions and highlight special monitoring after an earthquake, during flooding events and power outages.	http://www.djc.com/special/	Teri King
Washington	**Tools for Effective Communication of Ocean Acidification Science and Policy**	Washington Sea Grant, in partnership with state, federal (NOAA) and international scientists and communication experts have released two ocean acidification fact sheets as aids for scientists, science communicators and science policy advisors asked to comment on acidification: "20 Facts About Ocean Acidification" (Nov 2013. revised Feb 2014) and "Ocean Acidification in the Pacific Northwest" (May 2014). They have also been instrumental in the development of NOAA's Sharing Ocean Acidification Resources for Communicators and Educators (SOARCE) webinar series (8 presentations in 2014).	http://www.google.com/url?q=http%3A%2F%2Fwsg.washington.edu%2Fadmin%2Focean-acidification.html&sa=D&sntz=1&usg=AFQjCNEtgOgopzLJjx5-O-S-9xwUiHHRnw	Meg Chadsey

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Washington	**King Tides**	King Tides, or extreme high tides, offer the chance to view what the future might look like with higher sea levels. The King Tides Project directs citizens to capture images of King Tide events and upload them onto the website, www.washingtonkingtides.net. The WA King Tides project is part of an international collaboration.	http://www.google.com/url?q=http%3A%2F%2Fwww.washingtonkingtides.net&sa=D&sntz=1&usg=AFQjCNFQFUBiP2xJPslXySciw2JtmMLjog	Jamie Mooney
Washington	**Coastal Flood Risk Reduction Course**	This performance level course designed to provide an introduction to flood-risk reduction opportunities with coastal communities. The course incorporates scenario-based group activities, along with instructor-led discussion, intended to develop the participant's ability to identify opportunities for coastal floodplain management. Targeted towards a broad cross section of professionals involved in emergency management, fire services, coastal zone managers, planners, developers, business and education, this courses focuses on both structural and non-structural mitigation approaches to flood risk aiming to increase the resilience of communities to flooding events	https://ndptc.hawaii.edu/training/catalog/7	Jamie Mooney
Washington	**Washington Coast Marine Spatial Planning**	As a member of the State Ocean Caucus, Washington Sea Grant is a member of the State planning team charged by the State legislature to develop a marine spatial plan off Washington's outer coast. The plan will provide better baseline information, ecosystem indicators, analyses to support coastal management decision-making, recommendations for siting new uses, implementation framework across agencies and sectors, integration of other existing policies and management and an adaptive management strategy. Washington Sea Grant plays a central role in this process by leading outreach, coordinating scientific review of data and projects, developing indicators of human wellbeing and economic health of the coast	www.msp.wa.gov	Bridget Trosin
Washington	**Coastal Hazards Resilience Network**	Washington Sea Grant, in collaboration with the Department of Ecology and with funding from NOAA, has developed a Coastal Hazards Resilience Network. The primary function of the network is to increase coordination and collaboration among state, federal and academic experts responsible for managing coastal hazards along the Washington Coast. The network will then be applied at the local level to increase the resilience and capacity of local communities to plan for a respond to natural hazard events.	www.wacoastalnetwork.com	Jamie Mooney

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Wisconsin	**Climate Change Implications and Adaptation Strategies for Great Lakes Ports, Harbors and Marinas**	Just one aspect of climate change is what will happen with the region's massive shipping and recreational boating infrastructure. This Wisconsin Sea Grant fact sheet offers some adaptation strategies.	http://aqua.wisc.edu/publications/PDFs/ClimateChangeImplications_GLMarinas.pdf	David Hart
Wisconsin	**Great Lakes Coastal Community Climate Adaptation Checklist**	Significant climate change is likely, but there is a great deal of uncertainty about the precise impacts of climate change, particularly on issues relating to water resources. This checklist of climate-related decision points can help coastal communities smoothly integrate climate change data into their ongoing planning processes.	http://aqua.wisc.edu/publications/ProductDetails.aspx?productID=606	David Hart
Wisconsin	**NOAA Lake Level Viewer**	Wisconsin Sea Grant helped with design and development recommendations for the LLV.	http://coast.noaa.gov/llv/	David Hart
Wisconsin	**Great Lakes Coastal Resilience Planning Guide**	Wisconsin Sea Grant helps develop case studies for the planning guide.	http://greatlakesresilience.org/	David Hart
Wisconsin	**Port Asset Matrix**	The Port Asset Matrix helps communities appraise the current value of their navigational and port infrastructure, allowing them to project the potential costs of maintaining or replacing these resources in the face of changing water levels and storm conditions caused by climate variation.	http://greatlakesresilience.org/case-studies/infrastructure/economic-valuation-port-infrastructure	David Hart
Wisconsin	**Social Science and Severe Weather: Evaluating a New Tornado Risk Communication Tool**	Wisconsin Sea Grant worked with the National Weather Service to evaluate a new tornado risk communication tool. The tool called impact-based warnings tells the public what impacts to expect during a severe thunderstorm or tornado. For example, instead of describing the size of hail or wind speed, it communicates that trees will fall down, mobile homes will be destroyed, or people will be killed if outside. It takes the guesswork out of the forecast. The tool improves upon past NWS communication by differentiating between severity levels, efficiently communicating the threat, providing the source of weather information, and using simple, concise, and attention-grabbing language.	http://seagrant.wisc.edu/home/Portals/0/Files/Coastal%20Communities/SGTornadoRiskCommunicationtool.pdf	David Hart
Wisconsin	**Visualizing Bluff Erosion**	Information collected about coastal processes is often very technical in nature and difficult for coastal landowners to understand. This project integrates animation, aerial photography, pictures, charts, and text to help the public better understand: (1) the natural process of coastal erosion; (2) how local land development decisions impact coastal erosion; and (3) the case for scientifically-based coastal development setbacks.	http://www.geography.wisc.edu/coastal/	David Hart

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Wisconsin	**Storm Transposition to Promote Climate Resilience**	Storm transposition is being applied in the Manitowoc River watershed to demonstrate why Wisconsin communities should invest in building resilience to climate change.	http://www.seagrant.wisc.edu/Home/AboutUsSection/PressRoom/Details.aspx?PostID=1812	David Hart
Wisconsin	**Great Lakes Coastal Storms Program Website**	The Great Lakes Coastal Storms Program is a regional effort led by the National Oceanic and Atmospheric Administration (NOAA) and partnered with Great Lakes Sea Grant Network to make Great Lakes coastal communities safer and more resilient to storm and weather hazards and climate change. Wisconsin Sea Grant hosts the Great Lakes Coastal Storms Program website which provides resources, program updates and information related to the four primary goals of the program: 1) improving dangerous current and wave observations, modeling, forecasting/warnings and risk communication; 2) addressing the impacts of stormwater on natural resources and promoting best management practices; 3) enhancing shoreline mapping, visualization and management; and 4) promoting hazard mitigation and community resilience.	http://www.seagrant.wisc.edu/home/Default.aspx?tabid=616	David Hart
Wisconsin	**Great Lakes Coastal Hazards Planning, Mitigation and Resilience Survey**	Coastal communities in the Great Lakes are faced with several storm hazards, including bluff and shoreline erosion, runoff pollution and flooding. Wisconsin Sea Grant, in conjunction with the NOAA Great Lakes Coastal Storms Program, conducted a survey to learn the planning and implementation needs of Great Lakes coastal planners and managers to mitigate and adapt to coastal storm hazards. Survey results will be used to develop and target outreach, products and tools that will help Great Lakes communities prepare for coastal storm hazards.	http://www.seagrant.wisc.edu/home/Portals/0/Files/Coastal%20Communities/SG_GL_CoastalStormHazard.pdf	David Hart