

APPLIED SCIENCE PROJECTS TO INSPIRE CLIMATE ADAPTATION AND RESILIENCE

Project	Description
Building the Capacity of Coastal Communities to Address Climate	The Massachusetts Institute of Technology Science Impact Collaborative worked with the Great Bay National Estuarine Research
Change Risks Through the Use of Role-Play Simulations	Reserve (NERR), and the Consensus Building Institute to test an innovative way to help coastal communities understand and prepare for
Contact: Steve Bird, City Planner, City of Dover	the potential impacts of climate change in the City of Dover, NH. The team used role-play simulations as a means to educate the public about climate change threats and to help communities explore ways of decreasing their vulnerability and enhancing their resilience. The
Email: <u>S.Bird@dover.nh.gov</u>	project provided insights into techniques for engaging communities in public learning, risk management, and collaborative decision-
	making around science-based issues, and offers a model approach that communities can use to address climate change.
Climate Resilience Initiative	This project provided an assessment and recommendations to be integrated into the Master Plan update process, codes and
City of Portsmouth	development regulations. This project also utilized scenario planning to explore uncertainty about the future consequences of climate
Contact: Peter Britz, Sustainability Coordinator	change induced sea-level rise and adverse impacts on the built environment and natural resources. The assessment used several potential futures (in this case low, medium, and high risk sea-level rise scenarios), providing both quantitative and qualitative
Email: plbritz@cityofportsmouth.com	information in the decision-making process. This process enabled the City to undertake a focused outreach around climate adaptation,
	without encumbering the Master Plan process. http://www.planportsmouth.org/cri.html
Wagon Hill Farm Erosion Control Phase I	This project seeks to assess the erosion issue at the Wagon Hill Farm shoreline in Durham. The Town of Durham will work with the
Contact: Kirsten Howard, NHDES Coastal Program	NHDES Coastal Program and the University of New Hampshire to monitor and assess and design alternatives for erosion control and shoreline protection.
Email: <u>kirsten.howard@des.nh.gov</u>	
Tides to Storms I and II	Part I - This project produced 1) a regional vulnerability assessment report and map set for 7 NH Atlantic coastal municipalities to assess
Rockingham Planning Commission	the impacts of climate change on land, natural resources and infrastructure, and provide detailed maps, and 2) adaptation and mitigation strategies to address the projected future effects of sea level rise and storm surge.
Contact: Julie LaBranche, Senior Planner	Part II - RPC provided technical assistance to 7 Atlantic coastal municipalities to implement recommended strategies from the Tides to
Email: <u>ilbranche@rpc-nh.org</u>	Storms I Vulnerability Assessment. The project focused on municipal efforts to adaptation implementation improve municipal and
	community resilience to coastal flooding, protect public health and safety, and increase awareness of coastal flood risks and hazards.
Climate Risk in the Seacoast (C-RiSe)	This project team assessed climate change impacts from from sea level rise and storm surge to natural systems and the built environment for ten coastal municipalities. Results of the assessment will help municipalities apply climate impact data directly into
Rockingham Planning Commission	programmatic changes such as facilities (infrastructure upgrades and priorities), permit processes, codes, and regulations. The project
Contact: Julie LaBranche, Senior Planner	results will be built into a developing web-based platform (NH Coastal Viewer). Vulnerability analysis results of sea-level rise and storm
Email: jlbranche@rpc-nh.org	flooding will be incorporated into master plans and hazard mitigation plans. The UNH Stormwater Center will complete a culvert
Strafford Regional Planning Commission	analysis based on future climate conditions including projected increases in the frequency and magnitude of extreme precipitation
Contact: Kyle Pimental, Senior Regional Planner	events.
Email: <u>kpimental@strafford.org</u>	
Assessing Flood Risk in the Lamprey River Watershed	Coastal communities in New England are confronted with the effects of rapid development and associated land use change, while also
Contact: Cameron Wake, UNH	dealing with the serious impacts of increases in extreme precipitation events which influences the frequency and magnitude of flood events. In response, local decision-makers and regional planners are using improved scientific information regarding flood risk as a basis
Email: <u>cameron.wake@unh.edu</u>	for guiding development and planning infrastructure investments. The project assessed flood risk associated with existing and future
	land use and climate change scenarios for the Lamprey River watershed of Great Bay, NH to support land use decision-making.
Durham Climate Adaptation Hazard Mitigation Plan Chapter	Strafford Regional Planning Commission assisted the Town of Durham in developing a climate adaptation chapter that was adopted as a
Strafford Regional Planning Commission	subset of their Hazard Mitigation Plan. The chapter provides adaptation strategies to protect areas at high risk of flooding due to climate change and sea level rise, and identifies various regulatory and non-regulatory options to address this potential risk. With collaboration
Contact: Kyle Pimental, Senior Regional Planner	from Town officials and staff from the University of New Hampshire, SRPC delivered a product that provided information on how best to
Email: <u>kpimental@strafford.org</u>	plan and act to address the impacts of climate change, thus protecting coastal infrastructure and resources.
Climate in the Classroom: Oyster River Middle School and Hampton	The Natural Resource Outreach Coalition (NROC) engaged teachers, and students and their parents in a collaborative process to raise
Falls Lincoln Ackerman Elementary School	awareness and community support for municipal climate resiliency actions. NROC planned and facilitated a community event to bring together students to present what they learned about climate change to parents and municipal leaders. This type of outreach program
Contact: Amanda Stone, UNH Cooperative Extension	is transferable to other classroom settings.
Email: amanda.stone@unh.edu	
City of Dover: Cocheco Waterfront Development, Dover, NH	This phased project involved a mixed-use development of multiple stories with an architectural character and quality to conform to the
Contact: Steve Bird, City Planner, City of Dover	appearance of surrounding downtown Dover buildings. The site consists of a 29-acre parcel with over a half mile of frontage along the
Email: <u>S.Bird@dover.nh.gov</u>	Cocheco River on its westerly and northerly boundary with approximately 14.5 acres suitable for development. Project design considerations include naturalized shoreline and park space and developed areas planning for 2100 projections for sea level rise and the
Contact: Robert Roseen Email: rroseen@waterstone-eng.com	resultant 100-year flood plain. The project involves several key elements including shoreland blended with a city park and boat house,

	and a combination of residential and commercial properties intended to create an attractive neighborhood and park space.
Coastal Resilience: Building Capacity for Resilience of Human and	The coastal communities of Hampton and Seabrook are increasingly vulnerable to climate-driven threats such as erosion, storm surge,
Natural Communities in New Hampshire Dune Systems	and sea level rise. Sand dunes play an important role in buffering the coastline from erosion and flooding; however, use and
Contact: Alyson Eberhardt, NH Sea Grant	development of the dunes has resulted in the current dune extent constituting a small fraction (16%) of the historic extent. The dunes
Email: alyson.eberhardt@unh.edu	that remain face continued pressure from storm surge, dune die-off, and trampling of beach grass by users of the area. In 2015-2016, a community based restoration effort supported by the NH Coastal Program was initiated. Building on the successes and lessons learned
Lindin <u>alfornebernardee anneda</u>	from that project, the second phase expanded restoration and planning efforts to identify and address existing vulnerabilities in the
	communities.
Coastal Resilience: Building Resilience to Flooding and Climate	Moonlight Brook is an important tributary of the Lamprey River drainage basin. Several flood resiliency and risk studies have been
Change in the Moonlight Brook Watershed of Newmarket	performed in the Lamprey River watershed including the Moonlight Brook subwatershed. The project team is conducting a two part
Contact: Robert Roseen Email: rroseen@waterstone-eng.com	effort to: 1) to study flood risk associated with climate change as well as how future development and build out of the community affect these risks, and 2) design robust green infrastructure practices within the Moonlight Brook watershed to help reduce risk of flooding
<u> </u>	while reducing pollutant load into the Brook and further downstream into the Lamprey River and ultimately Great Bay.
Coastal Resilience: Communicating Flood Risk with the FEMA High	The High Water Mark (HWM) Initiative is a community-based project whereby municipalities design, coordinate and implement a HWM
Water Mark Initiative	project which involves: 1) install a sign/marker in a highly visible location, accessible to the public, that shows the elevation of past flood
Contact: Julie LaBranche, Rockingham Planning Commission	events and future projected sea-level rise; and 2) identify climate change adaptation actions the municipality can implement. The
	Rockingham Planning Commission is working with Portsmouth, Rye, Hampton, and Seabrook and other key stakeholders, including
Email: <u>jlabranche@rpc-nh.org</u>	FEMA and state agencies, to install at least one and no more than two high water markers in each municipality. Culvert replacement at the Bay Road crossing of Lubberland Creek in Newmarket achieves three primary goals: (1) restoration of aquatic
Coastal Resilience: Implementing Phase I of the Lubberland Creek	connectivity at the system's tidal/freshwater interface allowing diadromous fish passage at the perched Bay Road culvert, (2)
Culvert Restoration	enhancement of the resilience of Lubberland Creek salt marsh by removal of the existing tidal restriction at Bay Road with a structure
Contact: Pete Steckler, The Nature Conservancy	that allows upstream salt marsh migration as sea levels continue to rise, and (3) remediation of the flood hazard of this road-stream
Email: <u>psteckler@tnc.org</u>	crossing, which overtops during major flood events and thereby compromises public safety.
Cutts Cove Restoration Project	The Cutts Cove Shoreline Restoration Project will restore shoreline that was filled and armored with rip-rap up to 12 feet above MTH.
Contact: David Burdick, UNH	The entire right of way adjacent to Market Street Extension is vacant; with plans to create a city park landward of the restoration area. Our project will restore the hardened shoreline into a living shoreline, creating tidal buffer zone, intertidal marsh, and a short (18-20
Email: <u>dburdick@cisunix.unh.edu</u>	inch) sill of repurposed stone from the rip-rap wall.
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