

NOAA Resilience Grants in New England Region

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OFFICE FOR COASTAL MANAGEMENT
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Program Objective

Support collaborative approaches to help coastal communities prepare for and recover from the impacts of extreme weather, climate hazards, and changing ocean conditions



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NOAA Regional Coastal Resilience Grants in New England

FY15: Resilient Cape Cod

- Cape Cod Commission
- Develop the economic, social, and environmental information needed to develop climate change adaptation plans
- Pilot in Barnstable, MA
- \$522,348 federal funds
- \$258,927 match



NOAA Regional Coastal Resilience Grants in New England

FY16: Advancing Inundation Forecasting & Living Shorelines Approaches

- NERACOOS & NROC
- Document and project storm impacts
- Advance awareness and implementation of living shorelines
- \$891,243
- \$456,257 match



NOAA Coastal Ecosystem Resilience Grants

FY15: Exeter, New Hampshire

- Remove dam on Exeter River
- Restore 21 miles of River and tributaries, eliminate barrier to migrating fish, improve water quality, reduce flooding from coastal storms
- \$610,000

FY15: Harwich, Massachusetts

- Restore 55 acres of tidal wetlands in Muddy Creek
- Replace 2 existing undersized culverts with a single span bridge and trapezoidal channel
- \$300,000



Moving Forward

- **Projects begin March – June 2016**
- **2017 President's Budget includes \$20M**
- **New funding opportunity announcement in Fall 2016**

<https://www.coast.noaa.gov/resilience-grant/>



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Questions?

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A network diagram featuring 12 stylized human figures in various colors (blue, green, yellow, orange, pink, purple) arranged in a circular pattern. Each figure stands on a small grey circular base. These bases are interconnected by a series of white lines that form a complex web, with a central point where multiple lines converge. The background is a light, textured surface.

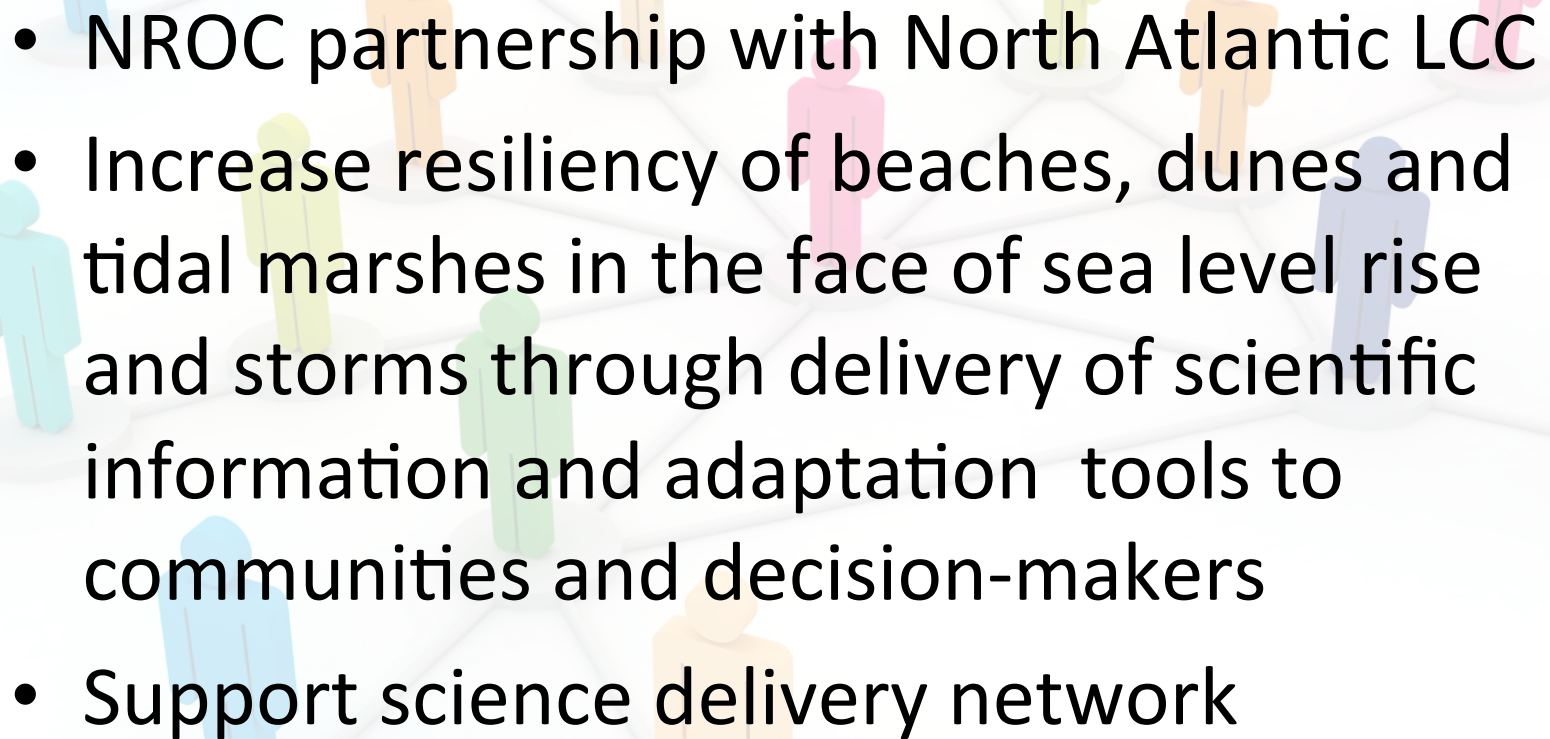
Science Delivery of LCC Hurricane Sandy resilience projects

Adrienne Harrison, NOAA

&

Regina Lyons, EPA

NALCC Science Delivery Network

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- NROC partnership with North Atlantic LCC
 - Increase resiliency of beaches, dunes and tidal marshes in the face of sea level rise and storms through delivery of scientific information and adaptation tools to communities and decision-makers
 - Support science delivery network

Connections to NALCC Projects

- NROC role in Science Delivery Network include:
 - Assess NROC interest in LCC projects (see table)
 - Identify connections between projects and NROC partners
 - Use NROC and LCC networks to develop relationships and potential feedback loops
 - Develop science transfer workshops to further of tools and information (see proposals)

Proposal for Shoreline Workshop

- Fall 2016; 1-2 days
- Session options:
 - *What Has Worked in New England: A Showcase of Living Shorelines Best Practices for New England shoreline types*
 - *Exploring Solutions to Regulatory and Permitting Barriers*
 - *Getting Credit for Living Shorelines: Strategies for maximizing FEMA CRS credits for natural shorelines*
 - *Explaining Living Shorelines to Property Owners: Presentation of LS Explainer Card (NROC/LCC Project)*
 - *Resilient Sites/Plum Island: Tools to explore where conservation strategies have the most benefit on sustaining ecological diversity (LCC Project)*

Proposal for Marsh Workshop

- **When:** Fall/Winter 2016
- **Who:** Salt marsh managers, researchers and other interested parties.
- **What:** Building off the 2014 NROC Marsh Migration workshop and 2015 Tidal Crossing Workshop, NROC, in collaboration with NALCC, will bring together managers and researchers to disseminate and discuss regional applicability of the results from the NROC Resilient Shorelines Grants and NALCC's Tidal Marsh Resiliency projects to inform salt marsh conservation and restoration.
- **Potential Sessions:**
 - *Monitoring* -- Connecting Saltmarsh Habitat and Avian Research Program (SHARP) research and monitoring to coastal managers
 - *Latest advances in marsh migration modeling*—
 - CT Marsh Migration Modeling (NROC grant to Warren Pinnacle)
 - *Plum Island Case Study*
 - Multiple model runs from DOI Sandy Projects (USC, TNC etc.)
 - *Translating research into conversation*- Identifying resilient sites for coastal conservation (TNC DOI grant)
 - *Salt marsh barriers*: Tidal Crossing Assessment protocol follow-up?