The Connecticut Institute for Resilience and Climate Adaptation: A Review

Northeast Monthly Climate Update: Coastal Management

May 26, 2016
Agenda

• Need for Climate Adaptation in CT
• CIRCA Mission and Priority Areas
• Funding and Research
• The Big Picture
Record flooding, March 2010
Tropical Storm Irene, August 24, 2011
October Snowstorm, October 30, 2011
Superstorm Sandy, August 2012
CIRCA Mission

• Mission – Increase the resilience and sustainability of vulnerable communities along Connecticut’s coast and inland waterways to the growing impacts of climate change on the natural, built, and human environment.

• CIRCA Priority Research Areas:
  – Living Shorelines
  – Critical Infrastructure
  – Coastal Flooding
  – Inland Flooding
  – Policy and Planning
  – Sea Level Rise
Actionable Science

• Funding:
  – Matching Funds Program
  – Municipal Resilience Grant Program
  – Research Funding

• CIRCA Research
Matching Funds Program

- [http://circa.uconn.edu/funds/](http://circa.uconn.edu/funds/)

- Examples of past recipients:
  - Dr. Zhang & Team: Resilient Coastal Communities under Wind and Flood Hazards
  - Dr. Swallow & Team: Public Support for Adaptation to Sea Level Rise
Municipal Resilience Grant Program

- [http://circa.uconn.edu/funds-muni/](http://circa.uconn.edu/funds-muni/)

- Examples of past recipients:
  - Town of Waterford: Waterford Municipal Infrastructure Resilience Project
  - Northwest Hills Council of Governments: Building Municipal Resilience and Climate Adaptation through Low Impact Development
  - City of New Haven: New Haven Industrial Toolbox
Research Funding

• Real-time Flood Prediction and Vulnerability Analysis of Connecticut’s Inland River Network
• Jarvis Creek Flooding Project

Photo Credit: W. Horne
CIRCA Research

• Sea Level Rise Projections
• Simulations of Riverine/Coastal Interaction during Storms and Impact on Municipal Infrastructure
• Develop Methods/Tools for Infrastructure Vulnerability Assessments
• ID Policy/Financing Options for Municipalities
• Living Shorelines
• Other
Adaptation and Resilience in CT

- State Agencies Fostering Resilience Council (SAFR)
- National Disaster Resilience Competition
- Partner Institutions and Organizations with Climate Resilience Goals