

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



UConn



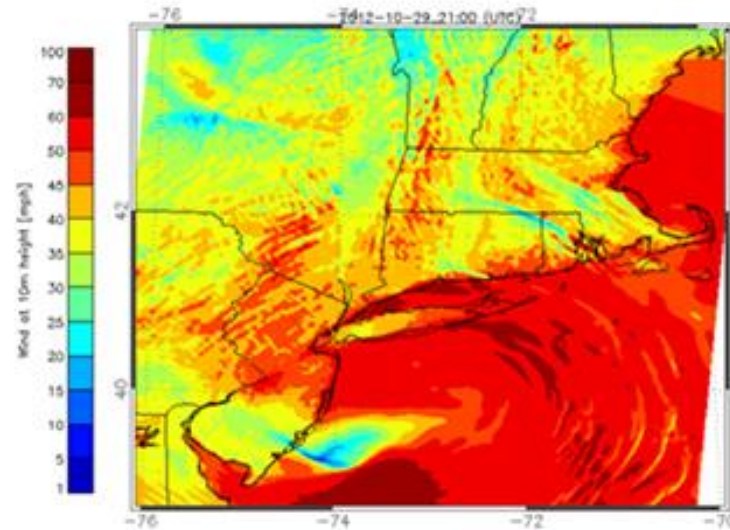
CIRCA Mission

- *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/>
- 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/>
- 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

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