

ICNet Members' New England Research & Project Survey



Research/Project Focus	Hurricane Sandy Follow-Up and Vulnerability Assessment and Adaptation Analysis
Research/Project Description	<p>Cambridge Systematics* is conducting a tri-state (Connecticut, New Jersey, and New York) study of the impacts of Hurricane Sandy on the region's multimodal transportation system. The study includes a related analysis of regional climate change and extreme weather vulnerabilities and impacts, as well as an assessment of feasible, cost-effective adaptation strategies to enhance resiliency</p> <p>*Working AECOM, Stratus Consulting, Dr. Radley Horton, the Vanderbilt Center for Transportation Research, and Fitzgerald & Halliday</p>
Primary Category*	Transportation assets
Geographic Location	Areas of Connecticut, New Jersey, and New York most impacted by Hurricane Sandy, including southwestern coastal Connecticut, New York metro area, and coastal northern New Jersey.
Funding	FHWA
Contact	Chris Porter, Principal, Cambridge Systematics, Inc.: cporter@camsys.com
Infrastructure sectors effected, subject area	All aspects of highway and rail surface transportation assets
For modeled climate or sea level rise projections, AOGCM or other sources used	Use of CMIP5 and SimCLIM to supplement estimates of future climate & extreme weather conditions (temp, precip, SLR, storm surge, winds)

Other Information, data, models, used	<p>Observed data on physical damage to transportation infrastructure as well as disruption (e.g., traffic, transit service) obtained from transportation agencies.</p> <p>Event-specific observed weather (NOAA, USGS, USACE, FEMA).</p> <p>Application of FEMA Hazus-MH for selected subareas to evaluate potential future climate risks</p> <p>Collection and analysis of various climate projections used in the tri-state region to estimate future risks from climate change.</p> <p>Engineering assessment and adaptation analysis for representative set of transportation assets.</p>
Time periods analyzed	<p>Historical: 2011-2013</p> <p>Future: TBD</p>
Status /Date submitted to ICNet	<p>In progress – initiated August 2013, 2-year project duration. Submitted Nov, 2013</p>
Brief key findings to date	<p>N/A</p>
Key publications/reports?	<p>N/A</p>
Other information (e.g., web links to technical reports).	<p>N/A</p>

*** Categories: Roads, bridges, and culverts; Pavement and/or soils; Hydrology (study of data/floods); Environmental/water resources (stormwater, drinking water); Transportation assets (network); Climate model output**