ICNet Members' New England Research & Project Survey

Research/Project Focus	Massachusetts Port Authority Disaster And Infrastructure Resiliency Planning Study
Research/Project Description	High-resolution climate projections and analysis corresponding to the long-term weather station at Logan Airport. In partnership with Ellen Douglas, Paul Kirshen, and Kleinfelder.
Primary Category*	Transportation Assets
Geographic Location	Logan, East and South Boston, as well as Charlestown properties, Massachusetts.
Funding	Massachusetts Port Authority
Contact	Ellen Douglas UMass-B:.douglas@umb.edu ; Katharine Hayhoe; Paul Kirshen, UNH : paul.kirshen@unh.edu
Infrastructure sectors effected, subject area	Massachusetts Port Authority facilities and infrastructure
For modeled climate or sea level rise projections, AOGCM or other sources used	A selection of well-established models and future scenarios that cover the IPCC range of uncertainty in climate sensitivity were chosen: CMIP3 AOGCMs: CCSM3, GFDL-CM2.1, HadCM3, PCM (SRES scenarios: A1fi, B1) CMIP5 AOGCMs: CCSM4, CNRM-CM5, CSIRO-Mk3.6.0, MPI-ESM-LR, HadGEM2-CC, INMCM4, IPSL-CM5A-LR, MIROC5, MRI-CGCM3 (RCP scenarios 4.5, 8.5)
Other Information, data, models, used	Station observations (daily minimum and maximum temperature, precipitation),

Time periods analyzed	2 30-year periods: historical (1971-2000), near-term future (2018-2047)
Status /Date submitted to ICNet	Starting. Submitted: Oct ,2013
Brief key findings to date	N/A
Key publications/reports?	N/A
Other information (e.g., web links to technical reports).	N/A

*** 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**