



National Trust *for*
Historic Preservation



Resilient Preservation: in the face of climate change + sea level rise

April 11, 2016 | Newport, Rhode Island

Jeanne C. Wisner



The National Trust for Historic Preservation helps people protect, enhance and enjoy the places that matter to them.

The **greenest** building is the one that is already built



The Preservation Green Lab strengthens the fabric of communities by demonstrating the relevance and importance of older + existing buildings to help communities realize their potential and foster resilience.

Why



“recognizing that cultural heritage is a human right and that the changing climate puts some aspects of cultural heritage at additional risk...”

— excerpt from, *the pocantico call to action on climate impacts and cultural heritage* (2015)

What

- A NEW call to action.
Not only do we, as preservationists, answer calls to save historic places from demolition and neglect, but we now have another threat: that of climate change + sea level rise.
- Beyond “H”istoric



+



= Resilient
Preservation

the greenest building in the face of climate change

How

- We have a unique perspective + contribution.
Preservationists are uniquely positioned to contribute to the climate change impacts and adaptation solutions dialogue. We not only value and work to save places, but we also understand the process of change and adaptation over time.
- Retrofit buildings for the future.
Now is the time to be persistent - bring old buildings into the future to demonstrate the adaptability and flexibility that we all know they embody.



Who



preservationists + anyone who loves place and the people who make those places special. focus on coalition building.

From the Field

California



game of floods | marin county, california

Texas

GALVESTON
HISTORICAL
FOUNDATION



center for coastal heritage | galveston, texas

Massachusetts

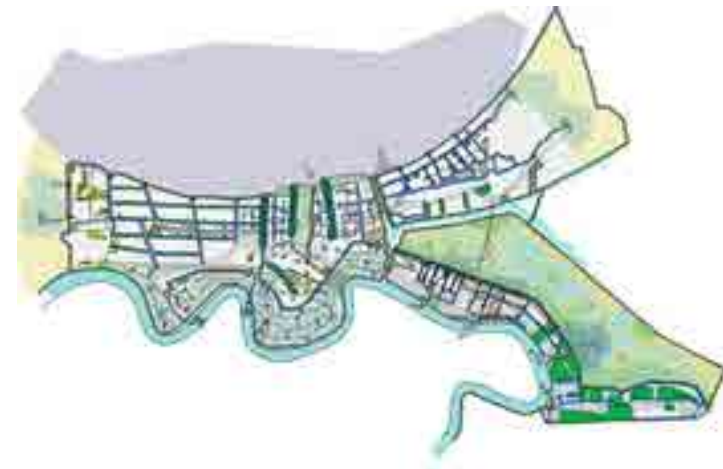
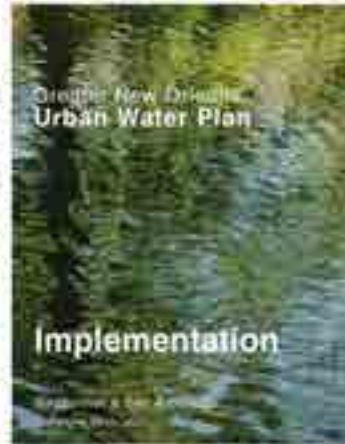
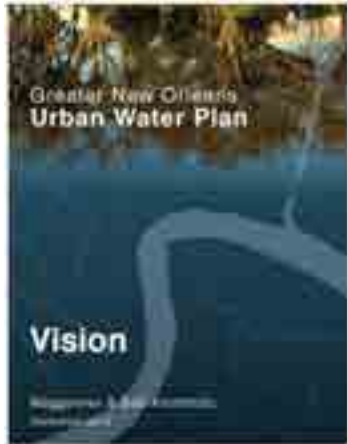


CITY OF BOSTON
Martin J. Walsh, Mayor



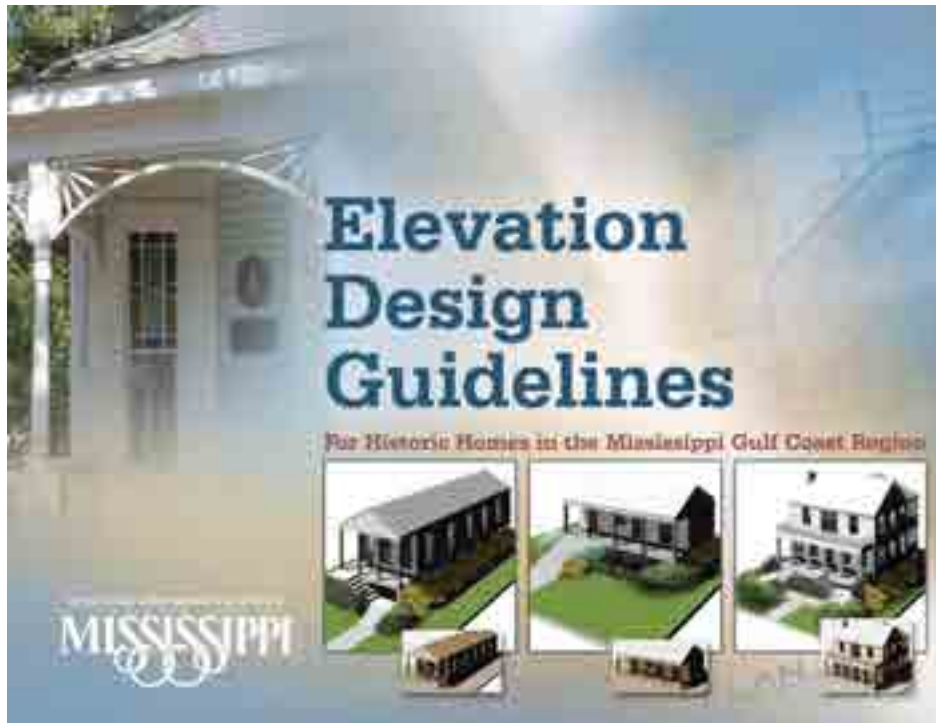
urban land institute + city of boston | boston, massachusetts

Louisiana



urban water plan | new orleans, louisiana

Mississippi



Driveways and parking areas can have significant influence on the appropriate elevation option.



Foundation plans should be scaled to the height of the new base elevation.

historic building elevation standards | state of mississippi

Maryland



Nonstructural Mitigation Assessment for the City of Annapolis Historic District - Annapolis, MD

Evaluation of Flood Proofing Measures

Stephen D. O'Leary AIA, CFM
USACE - Nonstructural Flood Proofing Committee
Architect/ Planner/ Project Manager

9 July 2015



cultural resources hazard mitigation plan | annapolis, maryland

Connecticut



- Surveys + inventories
- Mobile app development
- Resilience plans
- Future threats
- Elevation guidelines



historic preservation resilience initiatives | state of connecticut

Rhode Island

KEEPING HISTORY ABOVE WATER
APRIL 10-12, 2018 | NEWPORT, RI

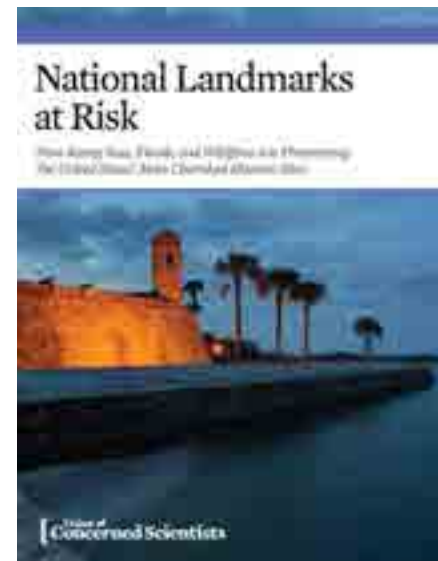
ABOUT PROGRAM SPEAKERS RESOURCES ACCOMMODATIONS NEWS



keeping history above water | newport restoration foundation

Literature

- Union of Concerned Scientists:
National Landmarks at Risk [2014]
- Al-Jazeera America:
Climate Change Threatens to Wash Away Cultural History article [2015]
- Mental Floss:
10 Places to Go Before They're Gone article [2015]
- National Trust for Historic Preservation:
High Water + High Stakes: Cultural Resources and Climate Change [2015]



Approaches

- wetland restoration
- buoyant foundation project
- community relocation
- interpretation:
fostering place-based
conversations around
issues that matter



Federal Policy

- *proposed* national catastrophe fund
- *proposed* national relocation program + plan
 - current program: \$8 million award to support federally recognized tribe community relocation [however, this is a limited fund with limited jurisdiction]
 - update: NDRC Isle de Jean Charles community relocation [\$48 million]



National Partnerships



FEMA

- FEMA: Resilient Nation Partnership Network
- USACE Nonstructural Flood-Proofing Committee: National Partnership
- Coalition for Sustainable Flood Insurance

GENERAL COASTAL RISK REDUCTION PERFORMANCE FACTORS:
COLLABORATION AND SHARED RESPONSIBILITY FRAMEWORK, WAVE HEIGHT, WATER LEVEL,
STORM DURATION

Threats and Hazards	Floodproofing and Inland Protection	Flood Warning and Preparedness	Retention
<p>Benefits/Process</p> <ul style="list-style-type: none"> Improve and expedite decision-making Reduced opportunity for damage Improved culture, local involvement 	<p>Benefits/Process</p> <ul style="list-style-type: none"> Reduced opportunity for damage Increased community resilience No increase in total coastal elevation 	<p>Benefits/Process</p> <ul style="list-style-type: none"> Reduced opportunity for damage Increased community resilience Improved public awareness with opportunity 	<p>Benefits/Process</p> <ul style="list-style-type: none"> Reduced opportunity for damage No increase in total coastal elevation Improved return value/asset value
<p>Performance Factors</p> <ul style="list-style-type: none"> Wave height Water level Storm duration Appl. substructure 	<p>Performance Factors</p> <ul style="list-style-type: none"> Wave height Water level Storm duration 	<p>Performance Factors</p> <ul style="list-style-type: none"> Wave height Water level Storm duration 	<p>Performance Factors</p> <ul style="list-style-type: none"> Wave height Water level Storm duration

International Coalitions + Frameworks

- Pocantico Cultural Heritage Cohort [2015-2017]



- UN COP21 [2015]

- UN Sendai Framework for Disaster Risk Reduction – *implementation guide on cultural heritage* [2015-2030]



What Can You Do?

- Sign the *Climate Impacts + Cultural Heritage* “call to action”
- Join the conversation via the *Climate Heritage* listserv
- Attend:
 - April 10-13, 2016
Keeping History Above Water conference [Newport, RI]
 - June 8, 2016
Flooding + Pennsylvania’s Historic River Towns [Lewisburg, PA]
 - June 16-17, 2016
Approaching Water symposium [Galveston, TX]
 - October 2016
Living on the Edge conference [Galveston, TX]
 - November 2016
PastForward conference [Houston, TX]
- Nominate climate + disaster impacted National Treasures to NTHP
- Submit photos/places to NTHP’s #ThisPlaceMatters photo campaign
- Contact Jeana @ NTHP to get connected



Thank you!



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