

Planning for Resilience: Preparing Florida Communities

Presented by:

Kristin Jacobs

Member of the President's
State, Local and Tribal Leaders Task Force
on Climate Preparedness and Resilience

January 28, 2015



Florida - A National Asset



- Qualities of Consequence
 - 4th largest economy in US
 - 3rd most populous state
 - 18 sea ports
 - Vital trade and transportation systems
 - Prominent service industry
 - Important agricultural producer
 - World-renowned natural areas

Climate Hazards and Florida

Florida is also among the states likely hit hardest by the impacts of climate change.

- Vulnerabilities and predictions include:
 - Severe tropical storms
 - Temperature extremes
 - Severe wet/dry seasons
 - Increasingly strained water supplies
 - Sea level rise (inland and coastal flooding)
 - Coastal erosion and impacts
 - Pressures on natural systems



Recent Exposures and Risk

Lake



Lake Okeechobee, 2006 Drought



Pensacola, April 2014



Fort Lauderdale, State Road A1A
November 2012



Palm Beach County, Tropical
Storm Isaac, August 2012

Economics of Climate Change

- Nation-wide: Extreme weather and climate impacts generated \$1 billion losses in 2012, within 15 years annual costs of storm expected to average \$35 billion.
- Florida likely to face greatest losses to coastal property from storms and tides, and public health threats associated with extreme heat
- Extensive critical infrastructure sits at low elevations — including roads, railways, ports, airports, and oil and gas facilities
- Florida projected to have \$101 billion in property below mean sea level in 2030

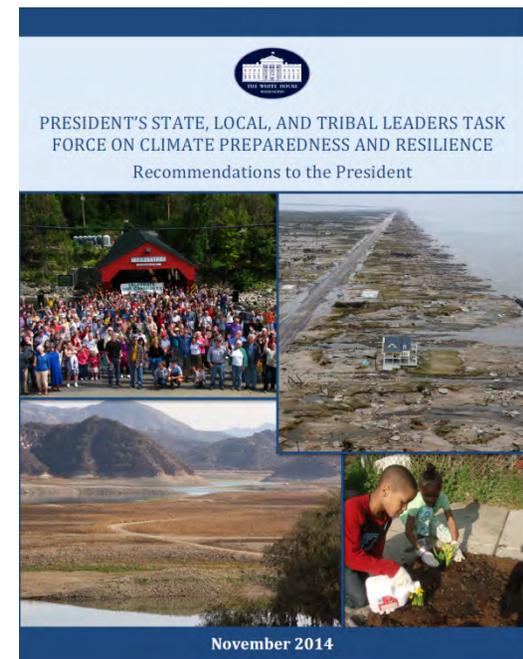
Building Resilience & Organizing Resources

- President's State, Local, and Tribal Leaders Task Force on Climate Preparedness and Resilience
- Created to advise the Administration on how the federal government can better assist local, regional, state, and tribal governments in achieving resilience, especially how to:
 - Remove barriers and create incentives and otherwise encourage investments in resilience.
 - Provide useful tools and information, including through intergovernmental coordination.
 - Otherwise support state, local, and tribal preparedness for resilience to climate change.



Overarching Principles

- Require consideration of climate-related risks and vulnerabilities as part of all federal policies, practices, investments, and regulatory and other programs.
- Strengthen coordination and partnerships across federal, state, regional, local jurisdictions and economic sectors.
- Provide actionable data and information on climate change impacts and related tools and assistance to support decision-making.
- Recommendations across seven themes



Building Resilient Communities

- Reward smart land use and development decisions
- Promote and incentivize resiliency standards (e.g., higher building elevations)

Adaptation Action Areas

- Comp. plan designation
- Designate areas at increased risk of flooding due to SLR, and other climate impacts
- Prioritize projects and align funding



Improve Resilience of Infrastructure

- Prioritize and promote use of green and natural infrastructure



Land acquisition, protection, and enhancement

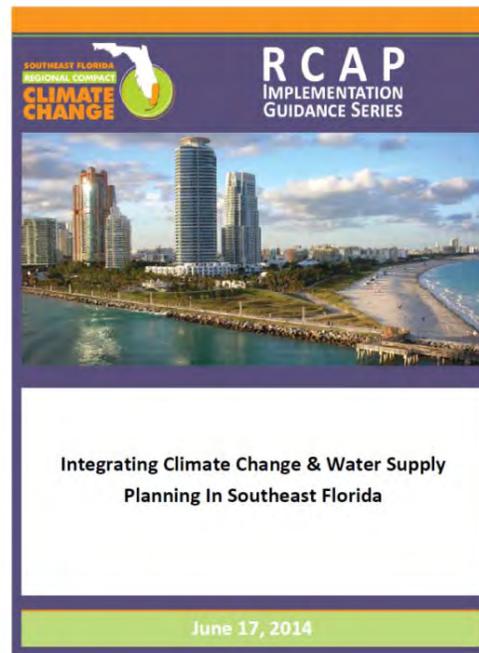


Improve Resilience of Infrastructure

- Support and incentivize climate-resilient water resource planning and management



Reclaimed water systems



Integration of climate and water resource planning



Stormwater storage and reuse

Improve Resilience of Infrastructure

- Support climate resilience as part of coastal infrastructure planning and investments
 - Regional sediment management
 - Coastal assessments
 - Resilient infrastructure



Port Everglades



Brevard County

Ensure Resilience of Natural Systems

- Promote integrated watershed management to protect water quality and quantity



Florida Springs Task Force at Salt Springs in 2003 (photo by T. Scott).



Everglades restoration

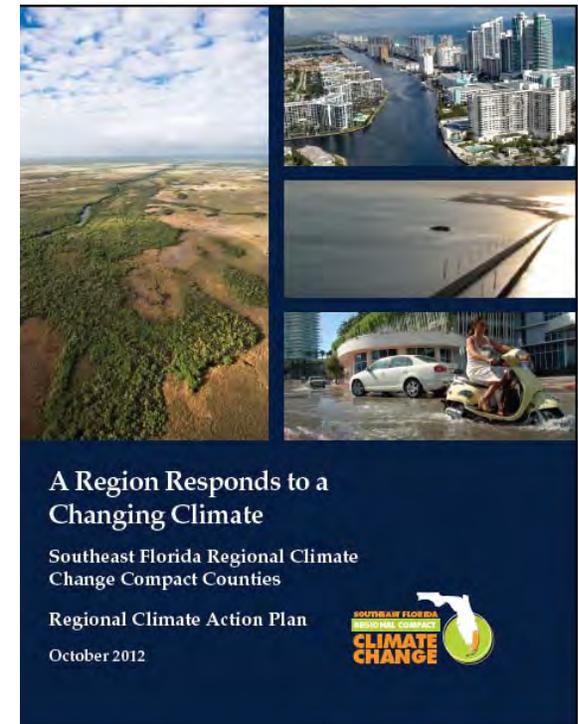
Building Capacity for Resilience

- Foster and support cross-jurisdictional and regional collaborations
 - Support delivery of down-scaled data and regional projections
 - Incentivize collaborations and leveraging of resources

Southeast Florida Regional Climate Compact

"Even though our Regional Climate Action Plan⁴¹ leaves it up to the individual county or city to implement the plan's 110 recommendations in ways which works best for each, we have found it makes fiscal and practical sense to work together. It is this spirit of cooperation, the ability to share, trust, and learn from each other, which has led to accelerated action throughout our region—a region so large it accounts for roughly one third of Florida's population. And while all of this gives us great reason to celebrate success, the truth is, we could not have done it without the expertise of our Federal partners."

- Kristin Jacobs, County Commissioner, Broward County, Florida



Advancing Resilience through State Funding and Partners

- Key Opportunities in 2015
 - Florida Land and Water Conservation Initiatives
 - Natural floodplains, fragile coastlines, aquifer protection
 - Water Protection and Sustainability Program
 - Reclaimed water, source diversification
 - Beach Management Program
 - Nourishment, dune Restoration, sand bypass
- Partnership Opportunities
 - Water Management Districts, Department of Economic Opportunity, Florida Department of Environmental Protection, Florida Department of Transportation