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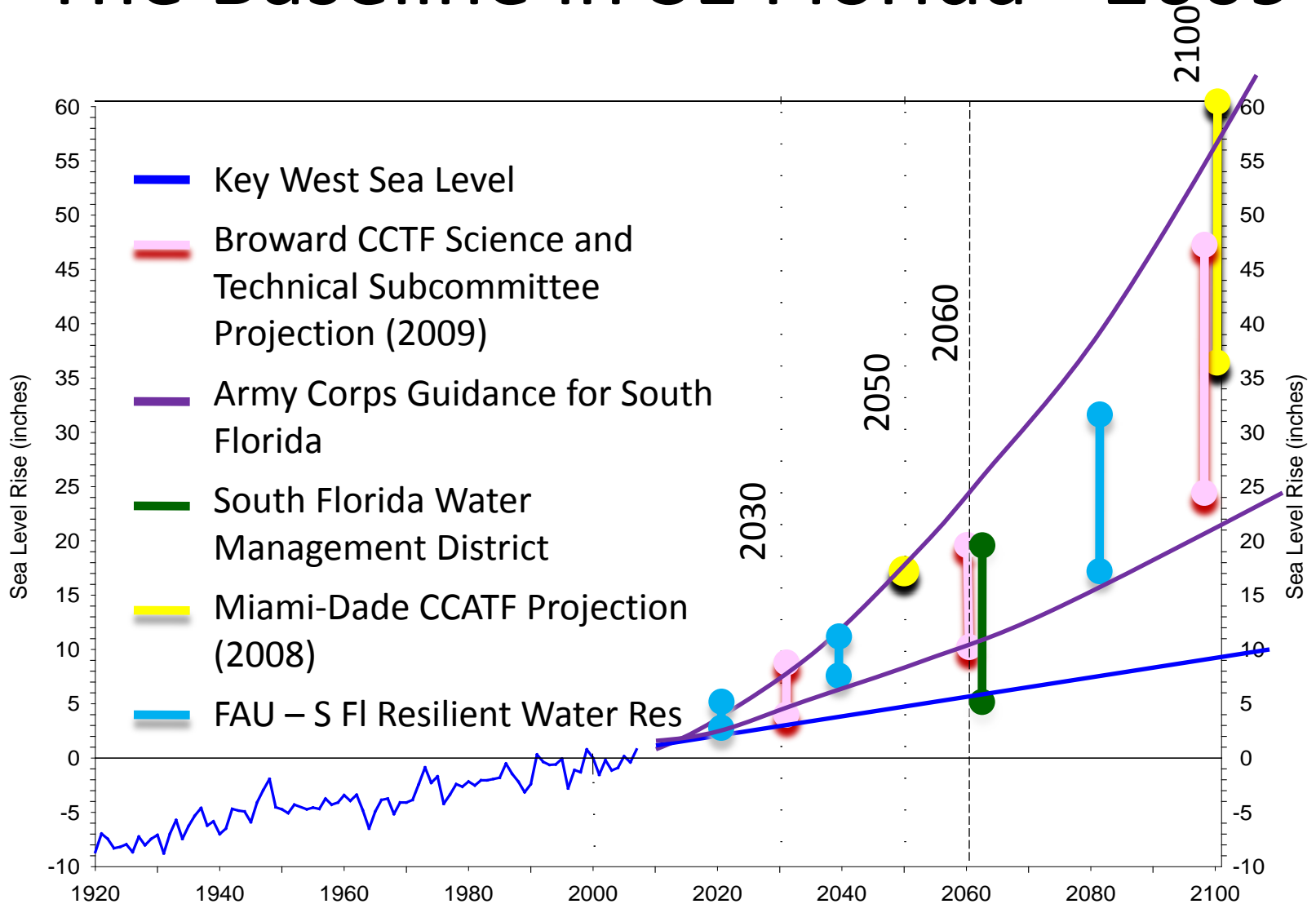
# The Southeast Florida Regional Climate Compact

**A Case in Regionalism for  
Resilience**

National Adaptation Forum  
March 2013

Steve Adams  
US Adaptation Program

# The Baseline in SE Florida - 2009



# Southeast Florida Regional Climate Change Compact - 2009

- Driven by County Government: Palm Beach, Broward, Miami-Dade and Monroe Counties
  - Regional Population: 5.5M
  - One third of Florida's population, total economy & emissions – 2011 GMP \$260B
- Compact Objectives
  - Develop a regional voice on state and federal policy
  - Develop a Regional Climate Action Plan
  - Meet Annually in Regional Climate Action Summits



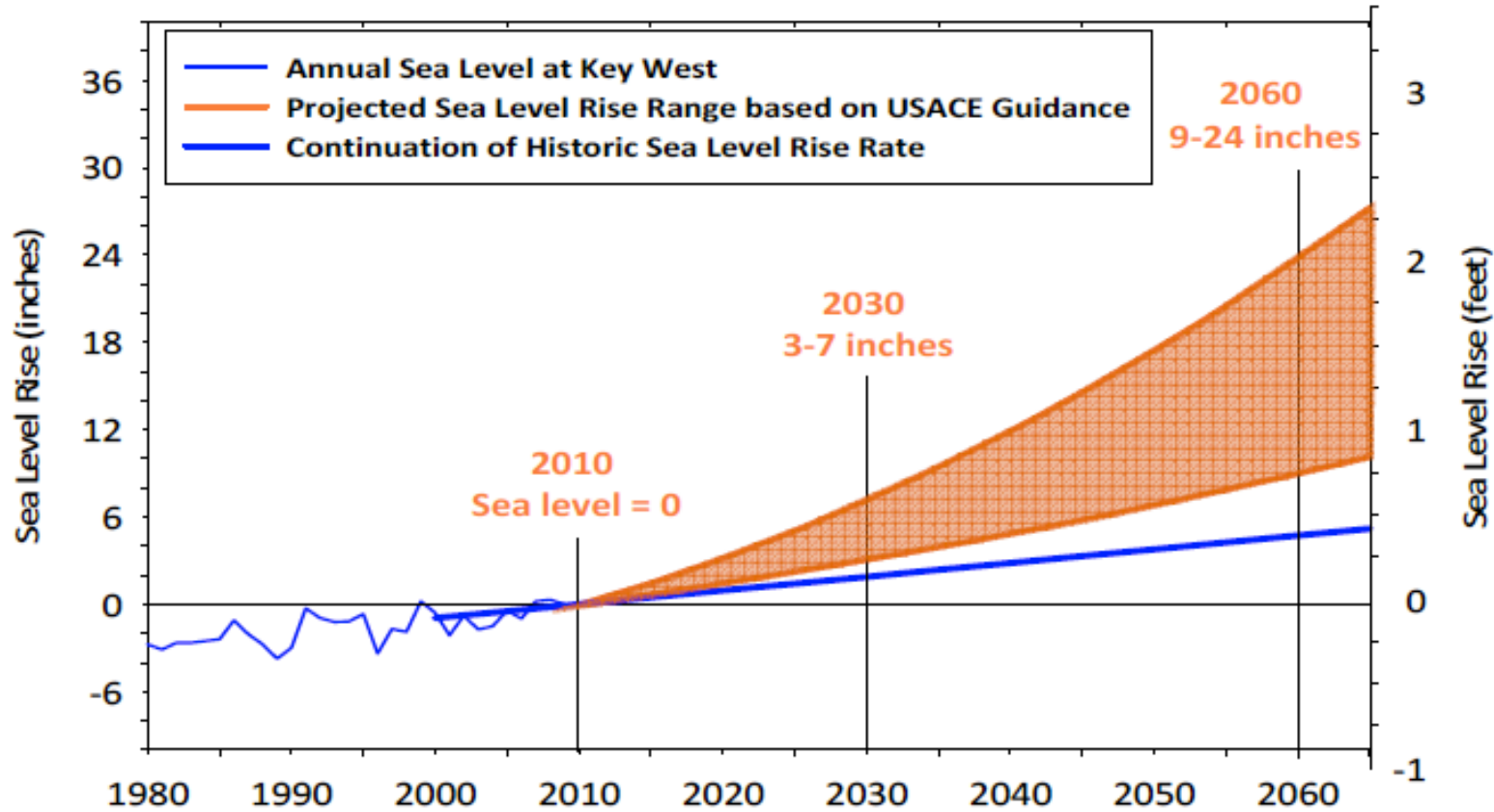
# CEQ Adaptation Task Force – Final Report to the President (Oct 2010)

- Policy Goals & Recommendations:
  - Encourage & Mainstream Adaptation Planning Across Federal Agencies
  - Improve Integration of Science Into Decision-Making
  - Address Key Cross-Cutting Issues
  - Enhance Efforts to Lead & Support International Adaptation
  - Coordinate Capabilities of Federal Government to Support Adaptation
    - “[a]daptation requires coordination across multiple sectors, geographical scales, and levels of government . . . Because impacts, vulnerability, and needs vary by region and locale, adaptation will be most effective when driven by local or regional risks and needs.”

# Key Adaptation Governance Questions for the US Context

- How to localize? 50 states, 3K Counties, 19,500+ municipalities
- what is the appropriate scale for various approaches to adaptation planning & strategy development?
- What approaches enable multi-sectoral collaboration (to manage trade-offs and synergies), multi-jurisdictional collaboration (both horizontal across equivalent adjoining jurisdictions and vertical across local-state/provincial-national-international governments?)
- What mechanisms enable long-term initiatives to flourish beyond the terms in office of particular elected officials?

# SLR Consensus Work Group: Final Planning Projections



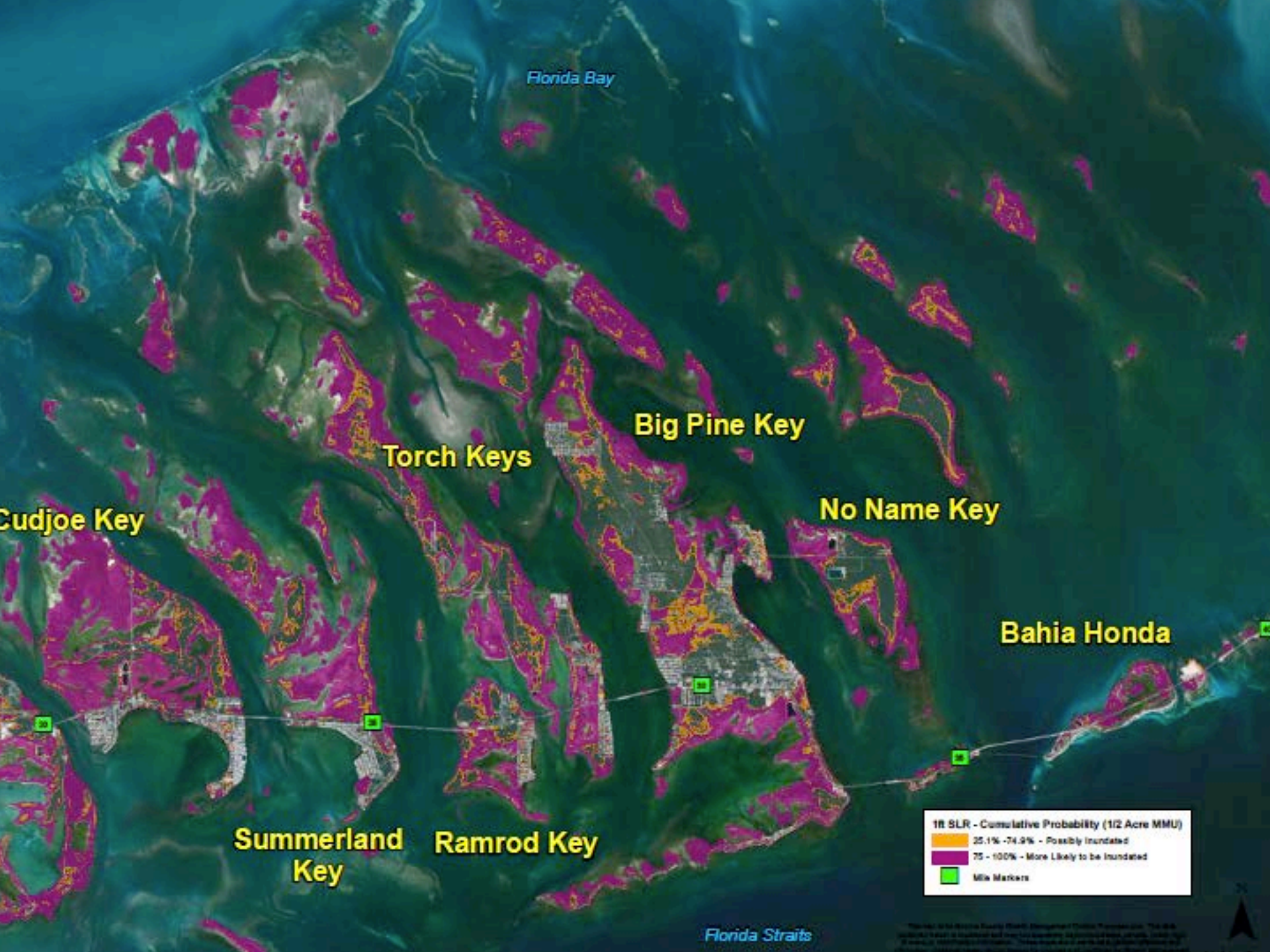
# Vulnerability Analysis – Physical Features

- Ports and airports (high) (med)
- Railroads (high) ■ Landfills (med)
- Water & wastewater treatment plants (high) ■ Hospitals (low)
- Wellfield protection areas (high) ■ Emergency shelters (low)
- Power plants (high) ■ Evacuation routes (low)
- SFWMD salinity control structures and pumps (med) ■ Marine facilities (low)
- Schools (low)
- Drainage infrastructure

# Vulnerability Analysis – Results of Analysis

- Population -- BEBR moderate projection – most recent available (high)
- Miles of beaches (high)
- Taxable value of property (high)
- Miles of road by FDOT category (noting that they include bridges) (high)
- Acres of future land use (med/high)
- Acres by habitat type (med)
- Endangered species (ESA Layers) (low)





Florida Bay

Big Pine Key

Torch Keys

No Name Key

Cudjoe Key

Bahia Honda

Summerland Key

Ramrod Key

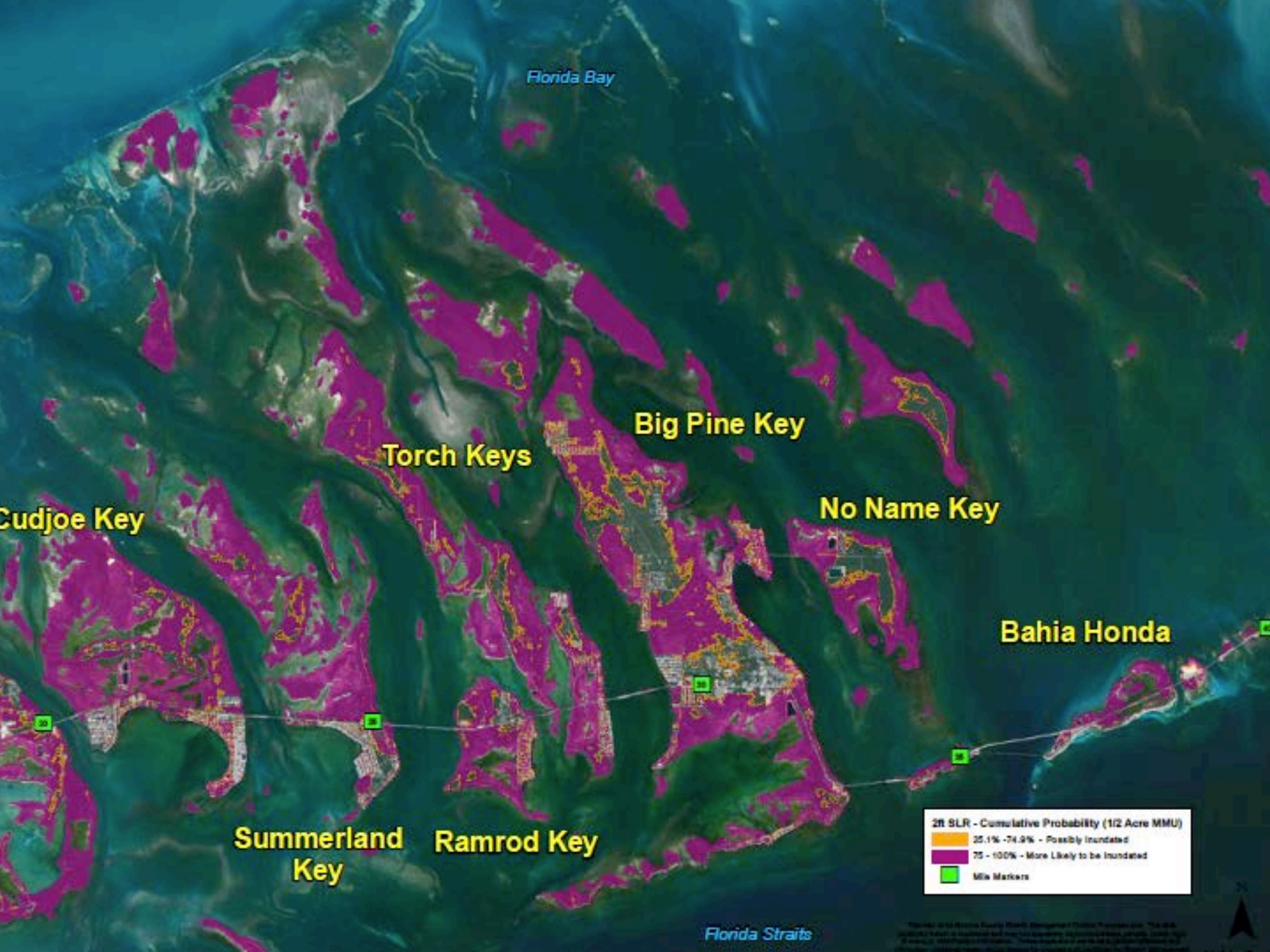
**1R SLR - Cumulative Probability (1/2 Acre MMU)**

- 25.1% - 74.9% - Possibly Inundated
- 75% - 100% - More Likely to be Inundated
- Mile Markers

Florida Straits

Florida Keys National Scenic Area Management Plan, Version 2.0. The data on this map is based on the 1R SLR scenario. The data is for informational purposes only and does not constitute a warranty of any kind. The data is provided as a service to the public and is not intended for use in any legal proceeding.





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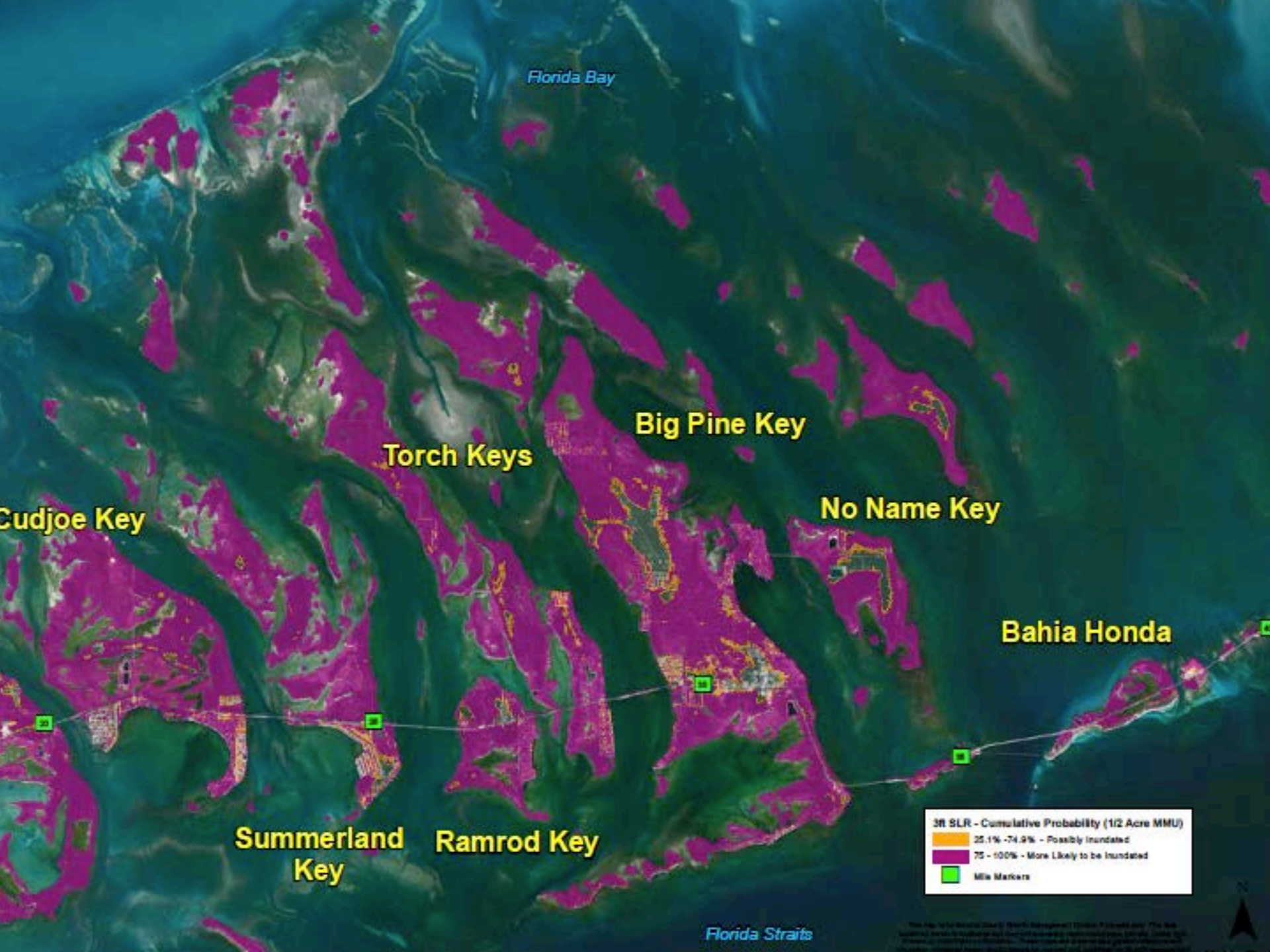
**2R SLR - Cumulative Probability (112 Acre MMU)**

- 25.1% - 74.9% - Possibly Inundated
- 75% - 100% - More Likely to be Inundated
- Milk Markers

Florida Straits

Florida Keys National Marine Sanctuary, Management District, November 2014. This map is intended to be used as a general informational tool only. It is not intended to be used for any other purpose. The map is not intended to be used for any other purpose. The map is not intended to be used for any other purpose.





Florida Bay

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Torch Keys

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Cudjoe Key

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Summerland Key

Ramrod Key

Florida Straits

**3R SLR - Cumulative Probability (1/2 Acre MMU)**

- 25.1% - 74.9% - Possibly Inundated
- 75% - 100% - More Likely to be Inundated
- Mile Markers

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# 2013 - 15 Agenda for the Southeast Florida Regional Climate Compact

- Implementation Convenings for Select RCAP Strategies
  - Mainstreaming Adaptation VA/RA in Planning
  - Coastal Flood Hazards for the Built Environment
  - Energy Efficiency & Renewable Energy
- Regional Communications and Outreach
- Catalyst Funding for RCAP Strategy Business Cases
- Creation of Adaptive Management M&E Model

# The Significance of the SE Florida Compact: “Resilience Regionalism”

- Addresses a key challenge to adaptation in the US: intergovernmental coordination around the unique problems of a place
- Efficiencies in project cost management
- Enables scaling of solutions to meet human/natural systems of significance
- Enables the development of a regional “voice” and “vision” for future prosperity