Marine Aggregation
CDRR 1: New Partnerships, New Approaches to Achieving Climate, Risk and Resilience Success

Southeast Florida Regional Climate Change Compact and its Coastal Resilience Working Group

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– Fully Ratified January 2010

– Commitments include:
  • Policy Collaboration
  • Develop Regional Tools
    – Unified SLR Projection
    – Vulnerability Assessment
    – GHG Emissions Baseline
  • Create a Regional Action Plan
    – Mitigation and adaptation strategies
  • Convene Annual Summits
Nine inches of sea level rise at Key West over the past 100 years tracks with the global average rate. The Compact’s projection is 3-7 inches of rise by 2030 and 9-24 inches by 2060.

Key West tide gauge data
Increased storm severity is an unwelcome prediction. Florida has proven resilient in the past, but the rising sea and growing population are challenges.
SE Florida Regional Climate Change Action Plan

- Details 106 recommendations across 7 planning areas
- Natural Systems (NS) planning area has 14 recommendations
- “NS-7 Coordinate ‘living shorelines’ objectives… to foster use of natural infrastructure (e.g. coral reefs and mangroves) instead of or in addition to grey infrastructure (e.g. bulkheads).”
Coastal Resilience Working Group

- **Scope:** All forms of natural, “living” and hybrid grey-green approaches to coastal resilience that protect the SEFL mainland or the Florida Keys.

- **Timeline:** 3-years, 2014-2016

- **Goal:** Improve coastal resilience in the Compact region by increasing the efficacy, number and scale of nature-based erosion control and flood attenuation projects

- **Objectives:** clearing house for best practices and info, id local examples, assess regional opportunities for new projects including consideration of the “triple bottom line;” promote new projects with particular attention on a diverse set of high profile projects
Build out SEFL Coastalresilience.org
SLR, storm surge, ecological and social layers
Further localize Arkema et al.-style Risk Explorer approach for SEFL
Coral Reefs
Beach/Dunes

(photo of A1A erosion from Hurricane Sandy in Fort Lauderdale courtesy of South Florida Sun Sentinel)

Dune restoration photos courtesy of Palm Beach County Department of Environmental Resources Management
Mangroves
Palm Beach County’s Snook Islands Living Shoreline Project

- Rare Natural Mangrove Shoreline
- Created Mangrove in Rock Planter
- Created Oyster Bar
- Hidden Bait Fisherman
- Rare American Oystercatcher Birds
- Hidden Sport Fisherman
Miles of hardened shoreline in need of greening
Protect, restore and enhance natural defenses, conduct demonstrations and scale up.