Resiliency in Broward County and the SE Florida Regional Climate Compact

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Climate Change in SE Florida

- Sea level rise
- Coastal and inland flooding
- Saltwater intrusion
- Increased storm intensity
- Extreme rainfall and drought
- Rising Temperatures
- Beach erosion
- Ocean acidification
Resiliency Standards and Planning: What’s the Urgency?

Unified Sea Level Rise Projection for Southeast Florida

Measured SLR: 9” since 1900 (3” in last 23 years)
Rising Ground Water Levels

Recent Trend in Coastal GW Elevations

Increase in Wet-Season GW Elevation (relative to SLR)

Measured

Modeled: Year 2060
Increase in Inland and Coastal Flooding

Storm-induced

Tidal and Surge

Impacted water managements systems
Saltwater Migration Constrains Water Supplies

2060: 2 feet SLR

- 35 MGD in predicted loss of water supply wells
- 40% coastal wellfield capacity
- 16% total wellfield capacity
Regional Collaboration in Resiliency

The Southeast Florida Regional Climate Change Compact

A Region Responds to a Changing Climate
Southeast Florida Regional Climate Change Compact Counties
Regional Climate Action Plan
October 2012
Major Accomplishments

- Integration of climate change across operations
- Vulnerability Assessments
- RCAP Implementation Workshops and Work Groups
- Expanded partnerships
- Regional capacity building
- Adaptation Action Area planning designations
- Cross-sector engagement
- Secured external resources
- Sustained regional commitment
Challenges

- Rate of development
- Length of government process
- Lack of coordinated resiliency planning, standards, and investments
Implementation in Broward County

- Advanced climate and SLR models
  - Water supply and adaptation planning
- Shoreline resiliency goals and investments
- Risk and economic assessments
- Resiliency collaboration with U.S. Army Corps
  - Resiliency standards
- Planned update to county flood maps to include SLR
  - Planning standards
- Update to County Climate Action Plan (adopted in 2016)
Next Steps

• Commitment of compact funds to centralized staffing
• Formalize structure of Compact via interlocal agreement (Chapter 163.01 F.S.)
• Collaboration with RAND Corporation
  • Regional land use, planning, and economics
• Expanded business engagement: development, design and regional economics
• Emissions reductions: agency and community
• 2017 Regional Climate Action Plan Update
Questions?
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