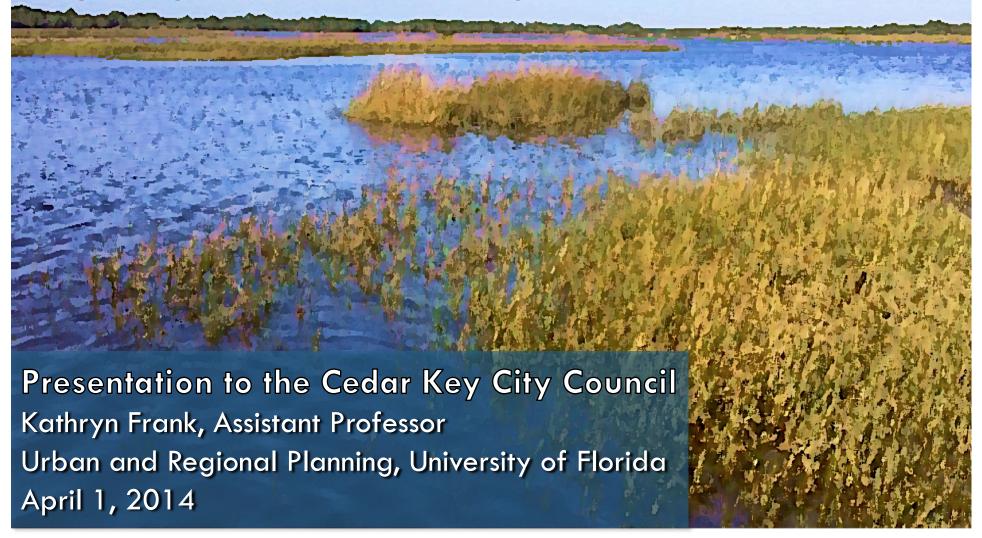
# Planning for Coastal Change in Levy County Project Update and Next Steps







# Purpose of the Presentation

- Project review
  - Vulnerability
  - Community input
  - Recommendations
- Review feedback received from County Commission
- Next steps
  - Findings report
  - New project
  - Other activities

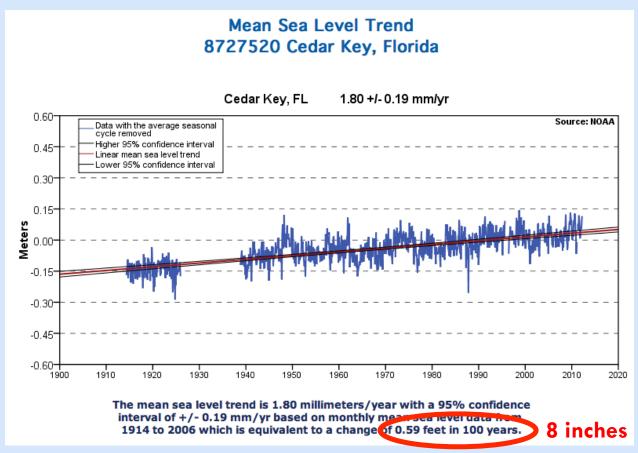




#### Historic Sea Level Rise



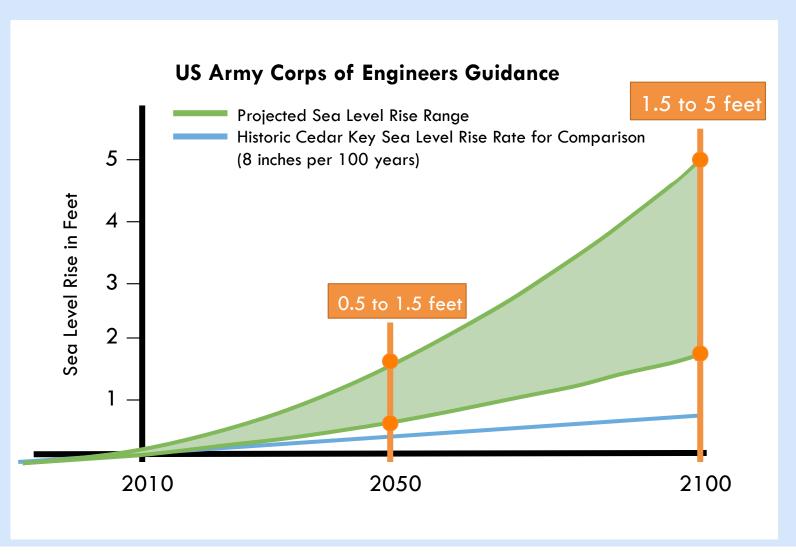
Cedar Key tide gage







#### Sea Level Rise Projections for Levy County



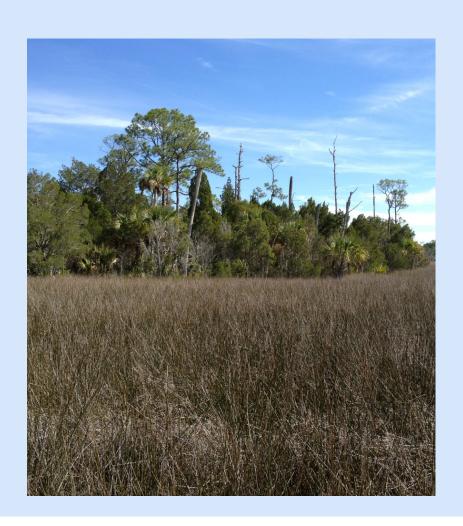




## Impacts of Sea Level Rise:

#### Shifting Conditions, New Incompatibility

- Habitat and species changes
- More frequent flooding at high tide
- Storm surges farther inland
- Saltwater intrusion into aquifers
- Erosion and corrosion of infrastructure
- Release of pollutants







# Cedar Key Low Lying Areas Map







## Impacts of Sea Level Rise on Cedar Key

Cedar Key Low Lying Areas	Acres (from parcel data)	Additional Acres	Percentage of Impacted Land
Less than 1.5 feet	134	134	26%
Less than 3 feet	320	186	36%
Less than 4 feet	377	57	11%
Less than 5 feet	449	72	14%
Less than 6 feet	513	64	13%





## Impacts of Sea Level Rise on Cedar Key

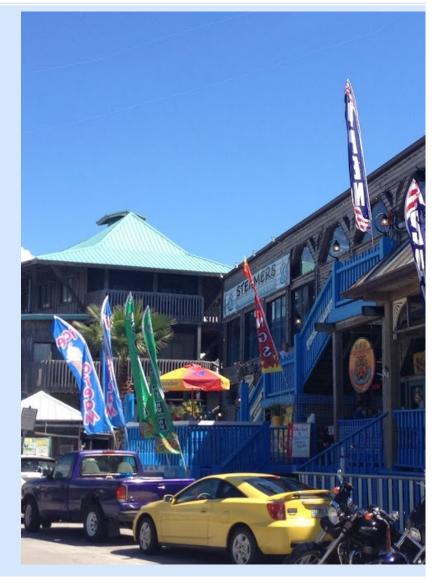
Cedar Key Low Lying Areas	# of Structures	Additional Structures	Percentage of Impacted Structures
Less than 1.5 feet	51	51	9%
Less than 3 feet	103	52	10%
Less than 4 feet	235	132	26%
Less than 5 feet	397	162	32%
Less than 6 feet	513	116	23%





## Cedar Key: Key Observations

- Elevation
  - Varies
  - Impacts will accelerate
- Development
  - Low lying
  - Higher points
  - In-fill and redevelopment
- Social, cultural, and economic aspects
- Creative opportunities and resources







#### Ways to Address Changing Compatibilities

- Research
  - Land use-water connection
  - More detailed analysis for project planning
  - Monitoring of large scale trends
- Land use and infrastructure planning
  - Discourage new coastal development in low-lying areas and carefully plan for future upland development
  - Maintain habitat migration corridors
  - Plan for infrastructure and facilities adaptation
  - Post-disaster redevelopment planning
- Economic development
- Intergovernmental coordination
  - Water
  - County and municipalities







## Design and Planning Recommendations

- Direct new growth to higher elevations
- Restore damaged protective ecosystems
- Prioritize infrastructure investments
- Harden critical facilities
- Elevate structures

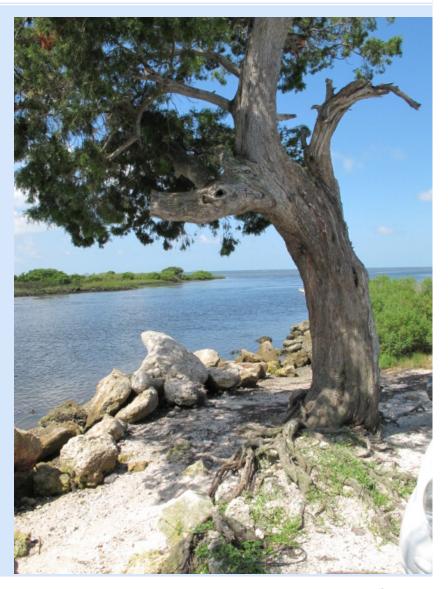






#### Design and Planning Recommendations

- Integrated planning
  - Sea level rise is one of many considerations and changes
- Planning opportunities
  - Comprehensive plan evaluation and appraisal (EAR) report
- No regrets policies
  - Reduce current vulnerabilities

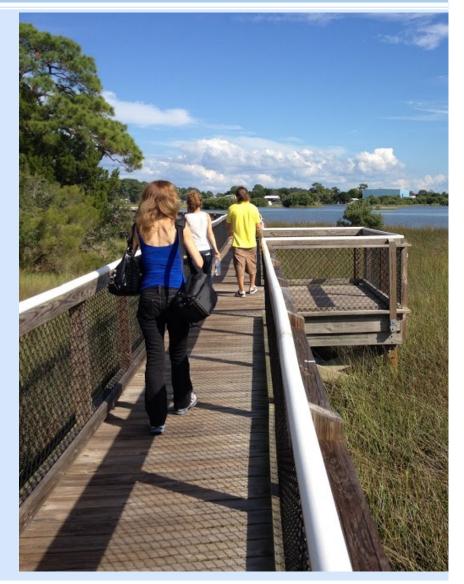






#### Design and Planning Recommendations

- Low hanging fruit
- Multi-purpose
- Consider planning for 4' elevation threshold
- Stakeholder input







## County Feedback

- Concerned with whether sea level rise is actually happening
  - Wanted more modeling or information to make decisions
- Uncertain of the role they will play
  - Accepted that local communities on the coast are looking at the issue
  - Opportunity to incorporate information into County Comprehensive Plan update





#### Next Steps

- Findings report
  - May 2014
- New project
  - May 2014-September 2015
  - Detailed adaptation strategies
    - Social
    - Environmental
    - Hazards
    - Community design
- Other activities









