Guiding Principles, Proposed Milestones

Dr. Carrie Schuman CEPD Workshop March 2022







Image Credit: Brian Tietz



Image Credit: Southwest Florida Travel



Image Credit: Diana Robinson Photography

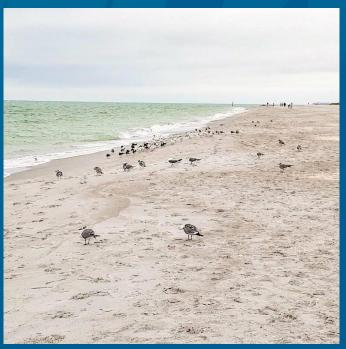


Image Credit: CEPD



Outline

- Motivation for Guiding Principle document
- Review of guiding principles
- Proposed steps and milestones (Process)
- SCCF contributions, recommendations

Motivation for Guiding Principles document

- Derive from the values we want to see from those working on coastal adaptation on our islands
- Assists decision making, strategic planning for a balanced adaptation process
- Allows us to discuss what a planning process looks like
- Creates continuity in vision and approach into the future
- Sets stage for a written plan

Guiding Principles

- Sections (not hierarchical):
 - General
 - Environmental
 - Infrastructure
 - Economic

 Drawn from local sources/language, similar efforts

Coastal Resilience Partnership of Southeast Palm Beach County (CRP) Guiding Principles

The CRP has established guiding principles for the partnership's work. These are common tenets that should frame the region's future growth and development. CRP guiding principles frame the analysis and recommendations geared to diverse aspects of community vulnerability, including socio-economic, environmental, real estate, and infrastructure considerations.

Partnership & Collaboration

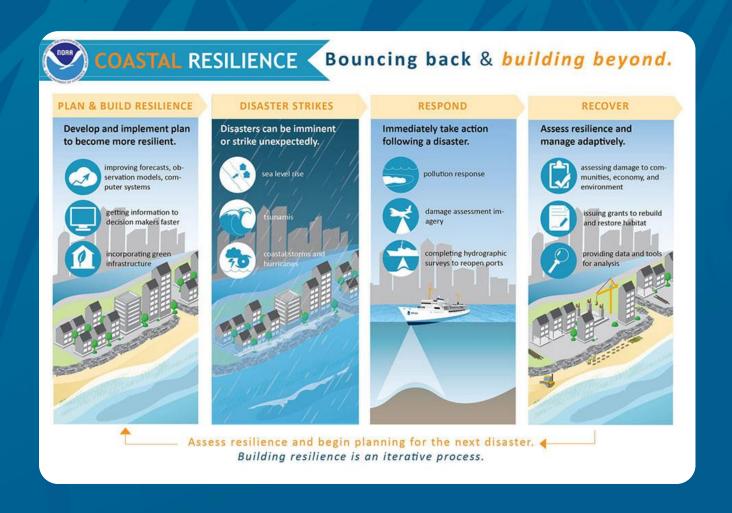
Climate change and its impacts do not stop at municipal borders, and the adaptation of
one community can be strengthened or weakened by actions in another. The CRP will
coordinate climate adaptation efforts across neighboring jurisdictions, consider public
investments/initiatives, and examine opportunities for public-private partnerships.

Infrastructure & Built Environment

Strategies to protect the built environment will incorporate the best available climate
science and projections from the Southeast Florida Regional Climate Change Compact.
Climate projections and adaptation strategies will be determined on a time horizon
relevant to the lifespan and criticality of the asset(s) in question. The CRP recognizes
that adaptation should balance engineering solutions, including nature-based strategies,
with long-term planning strategies including managed retreat. The CRP will identify and
use Adaptation Action Areas to prioritize public investments and limit new development.

Guiding Principles - General

1) Future climate, best available science & technical know-how, act adaptively



Guiding Principles - General

2) Impacts ≠ borders. Sanibel and Captiva should work together, ↓ impacts, ↑ benefits



Guiding Principles - General

3) plans, policies, solutions \rightarrow consistency





SANIBEL PLAN

the Comprehensive Land Use Plan of the City of Sanibel, Florida



Initially Adopted July 19, 1976 - Ordinance no. 76-21

Extensively Revised November 27, 1985 - Ordinance no. GA-85-04

Extensively Revised February 8, 1989 - Ordinance no. 89-04

Extensively Revised August 15, 1997 - Ordinance no. 97-16

Extensively Revised
September 18, 2007 - Ordinance no. 07-005

Extensively Revised
May 7, 2013 - Ordinance 12-010

CAPTIVA COMMUNITY PLAN

GOAL 13: CAPITVA COMMUNITY PLAN. The goal of the Captiva Community Plan is to protect the coastab barrie island community's natural resources such as beaches, waterways, wildlife, vegetation, water quality, dark skies and history. This goal will be achieved through environmental protections and land use regulations that preserve shoreline and natural habitats, enhance water quality, encourage the use of native vegetation, maintain the mangrove fringe limit noise, light, water, and air pollution, cracate mixed-use development of truditionally commercial properties, and enforce development standards that maintain one and two story building heights and the historic low-density residential development pattern of Captiva.

OBJECTIVE 13.1: PROTECTION OF NATURAL RESOURCES. To continue the longterm protection and enhancement of wetland habitats, water quality, native upland habitats (including rare and unique habitats), and beaches on Captiva.

POLICY 13.1.1: Mangrove Fringe. Consider development regulations that will provide additional protection to the shoreline, including mangrove fringe to the greatest extent possible.

POLICY 13.1.2: Blind Pass. Cooperate at the federal, state, regional and local levels, efforts to maintain Blind Pass as an open pass. Lee County recognizes the positive benefits of maintaining an open Blind Pass to the near-shore environment, marine ecology, back-bay water quality and boater access.

POLICY 13.1.3: Estuarine and Wetland Resources. Continue to support the protection of estuarine and wetland resources and wildlife habitat on Captiva.

POLICY 13.1.4: Beach and Shore Preservation. Continue to support the effort of the Captiva Erosion Prevention District, a beach and shore preservation authority under provisions of Chapter 161, Florida Statutes, to preserve, protect and maintain Captiva's beaches using environmentally responsible methods.

POLICY 13.1.5: Quality of Adjacent Waters. Continue to support efforts to investigate measures that may improve water quality in Pine Island Sound and the Gulf of Mexico. This may include a feasibility analysis of afternative wastwater collection and treatment systems to serve the Captiva community for a planning period of 30 years, including a central sewer system based upon current and use regulations. Should the feasibility analysis show that Captiva requires or is best served by an alternative wastewater collection and treatment system. Lee Country will encourage efforts to size the system consistent with development permitted by the Lee Plan and the Land Development of the development permitted by the Lee Plan and the Land

POLICY 13.1.6: Natural Upland Habitats. Continue to support the preservation of native upland vegetation and wildlife habitat on Captiva.

4) Public participation important → buy-in, reduce community dissent, legal action, other barriers

Guiding Principles - Environmental

Solutions that consider:





- Solutions that:
 - "preserve the shoreline and natural habitats, enhance water quality, incorporate native vegetation, maintain the mangrove fringe, and limit noise, light, water and air pollution"

Captiva Community Plan
Vision Statement

Guiding Principles - Infrastructure

Preferential use of:

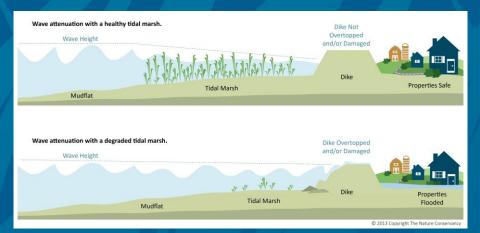




Image Credit: Yuan-Chi Lee, Research Communications



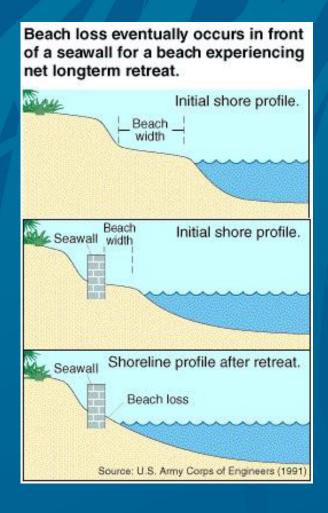
Image Credit: NOAA

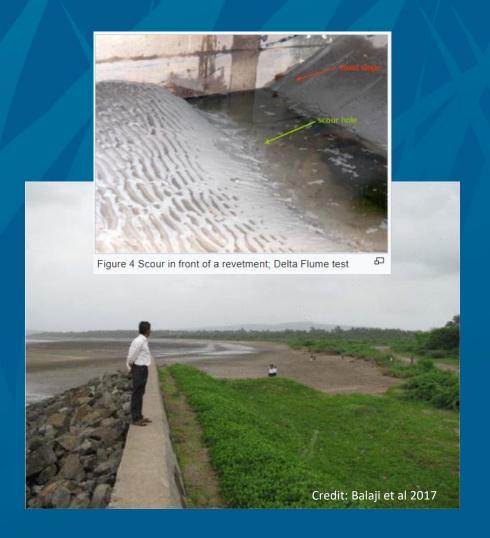


Image Credit: Florida Living Shorelines

Guiding Principles - Infrastructure

• To avoid:





Guiding Principles - Infrastructure

- Adaptation Strategies that:
 - protect human life
 - protect public, private property, cultural resources
 - Prioritize w/ regards to economic, social vulnerability, equitability

Guiding Principles - Economic

 Protecting infrastructure = protecting tax base; maintain economic driver of beach recreation



Credit: SanCap Island Vacation Rentals



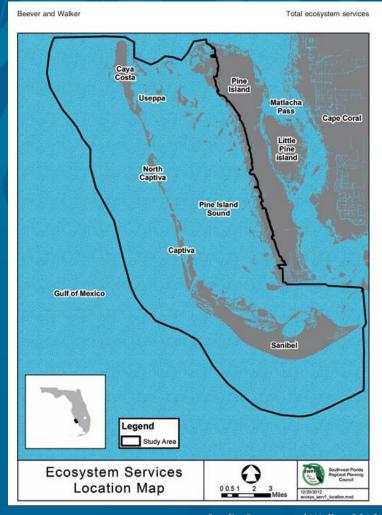
Credit: SanCap Guide

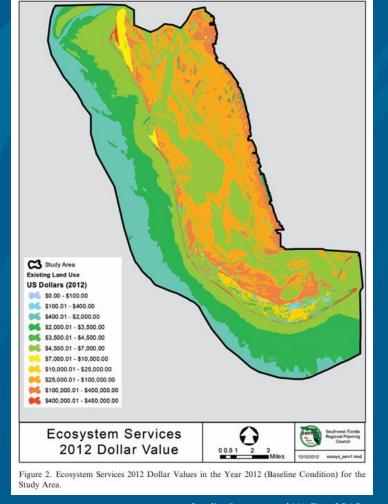


Credit: Beach Bliss Living

Guiding Principles - Economic

Assess cost/benefit, include nature co-benefits, maintain funding eligibility





Credit: Beaver and Walker 2016

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Proposed Milestones/Steps

Define planning vision, principles, motivations

- Draft framework, outline for plan
- Adopt planning horizon/SLR projections consistent with FDEP resilience funds

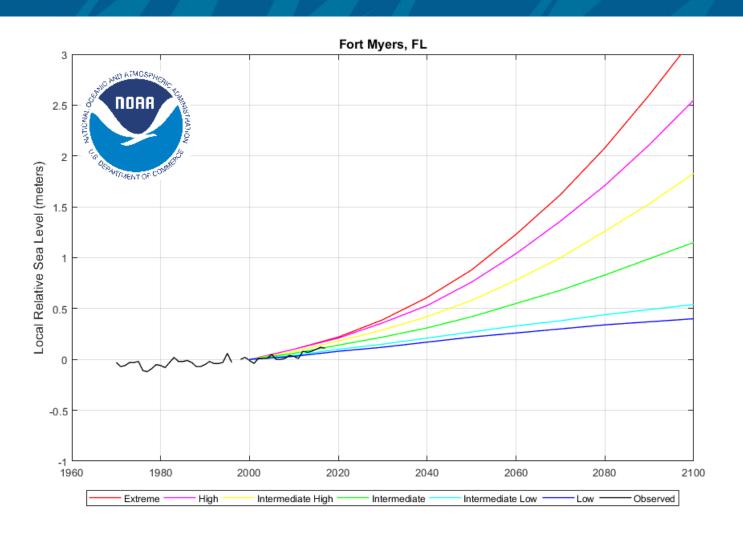
FDEP Compliance

 SLR (high tide flooding), storm flooding, rainfall-induced flooding (as practicable)

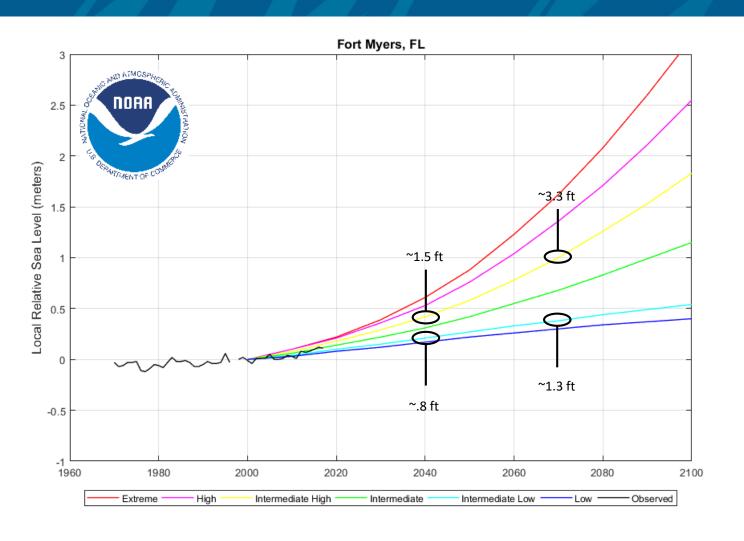
- SLR Projections 2017 NOAA curves
 - 2022 report just came out

Planning years 2040, 2070

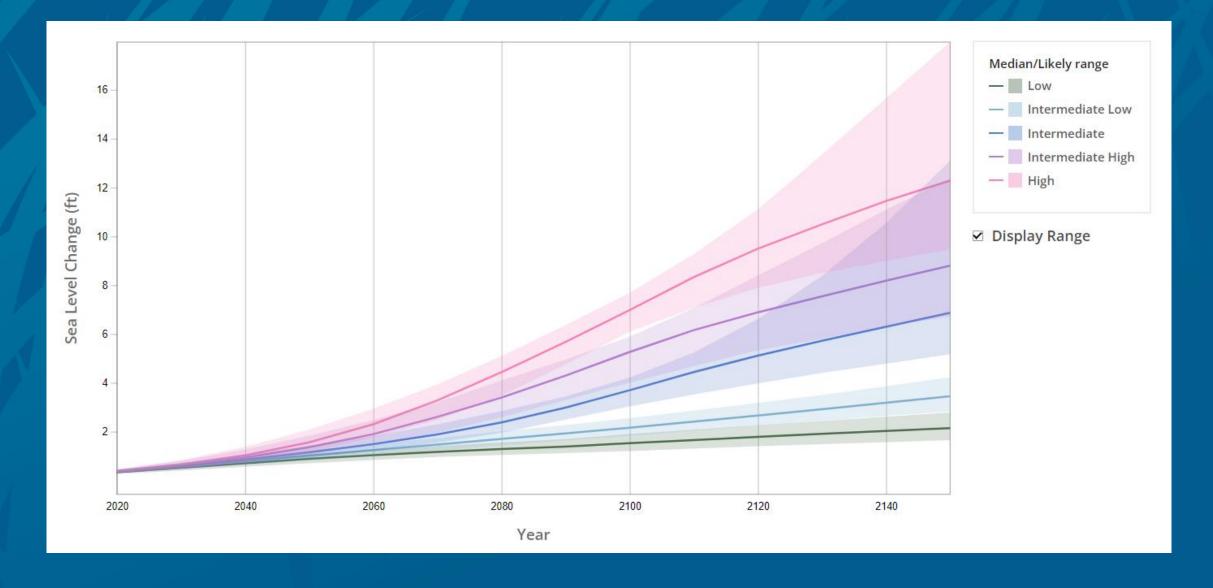
FDEP Funding Requirements



FDEP Funding Requirements



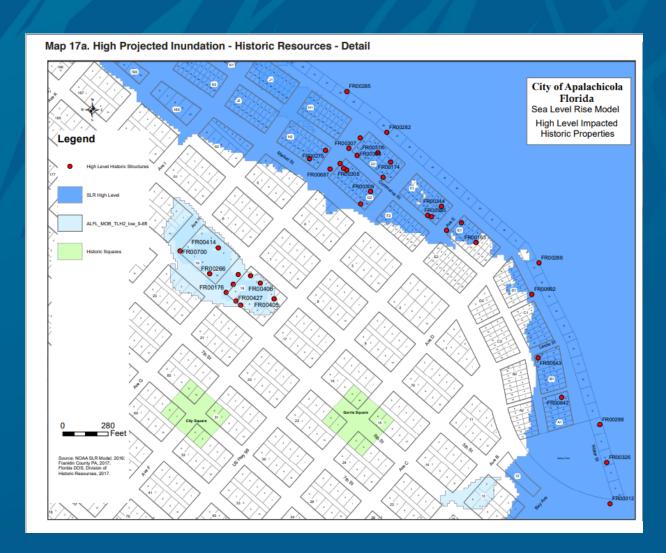
2022 curves



Proposed Milestones/Steps

- Characterize coastal risks ->
 operationalize into useable form
 - Cheryl's work
 - County Proposal
 - ACUNE

 Evaluate critical assets against coastal risks, generate a ranked list, explore solutions/strategies



Proposed Milestones/Steps

Assess cost/benefit, recommendations

Adopt/integrate plans

Outline implementation, funding, assessment

Follow-Up, SCCF will assist with:

- Assist CEPD and contractors to create a written plan
- Provide forum, support for public engagement
- Track legislation and send out a regular communication with updates on planning, grants, bills, etc.
- Coordinate planning efforts with Sanibel
- Maintain consistency and coordination to the extent possible between islands