

High Tide At Key West, Fla.



Adaptation Update

Sustainability
Coordinator
Alison Higgins

KENTUCKY

JACK'S SALOON
The Leading Brands of
WINES, LIQUORS & COGNAC

EAST COAST

WATER

Adaptation Update: Predictions

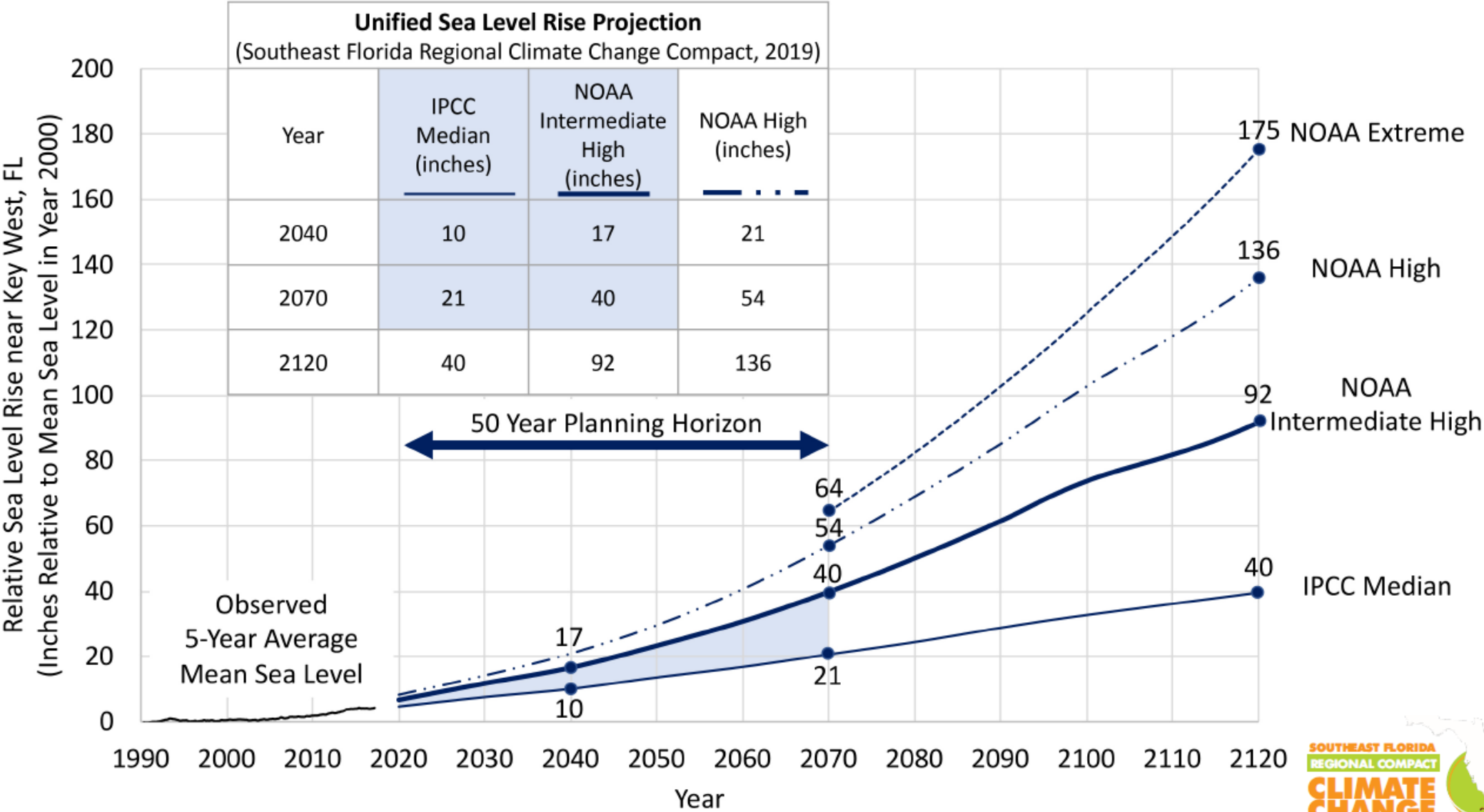


FIGURE 1: Unified Sea Level Rise Projection



Adaptation Update: Predictions

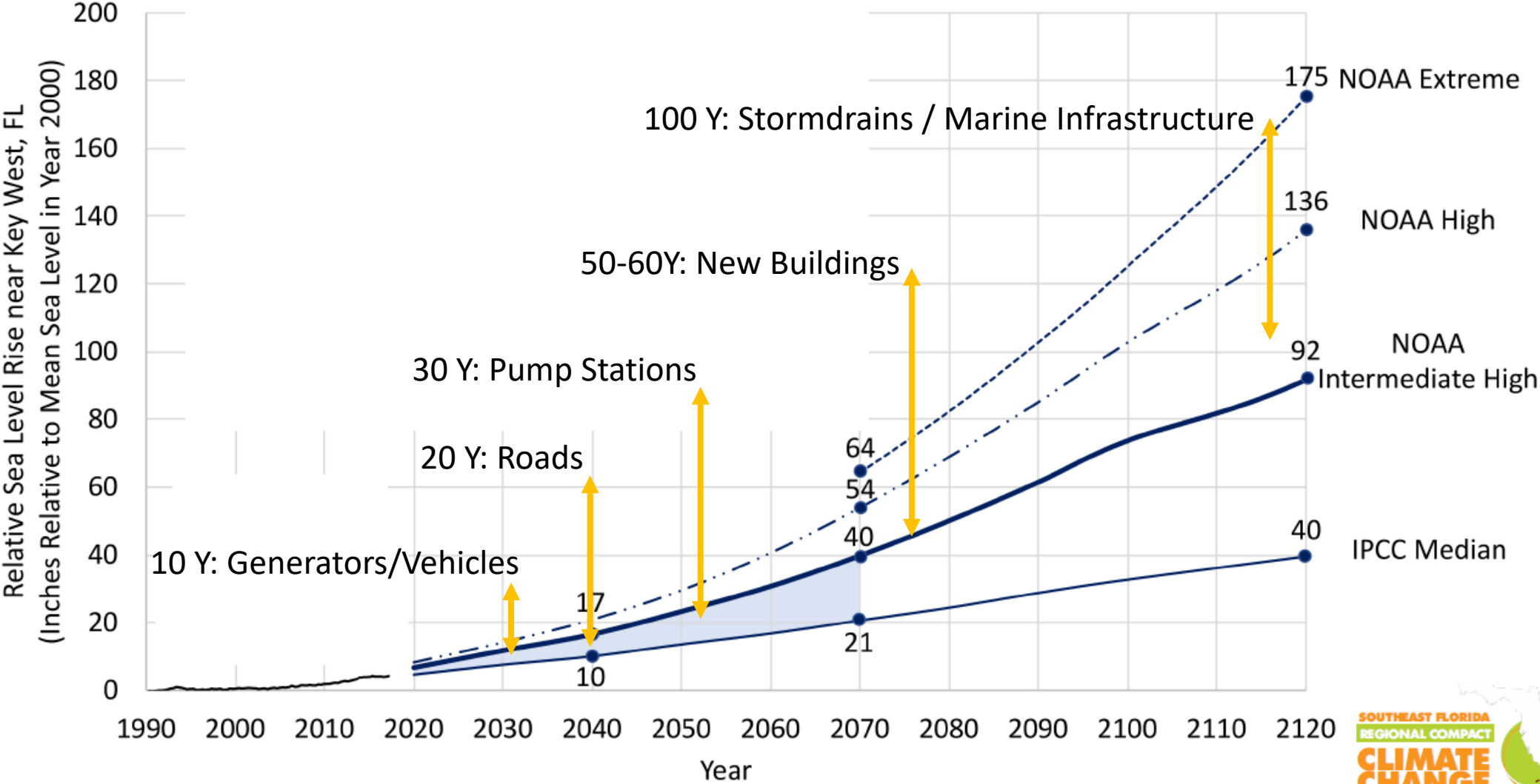


FIGURE 1: Unified Sea Level Rise Projection



Adaptation Update: Stormwater Master Plan

Phase I: Occurring Now

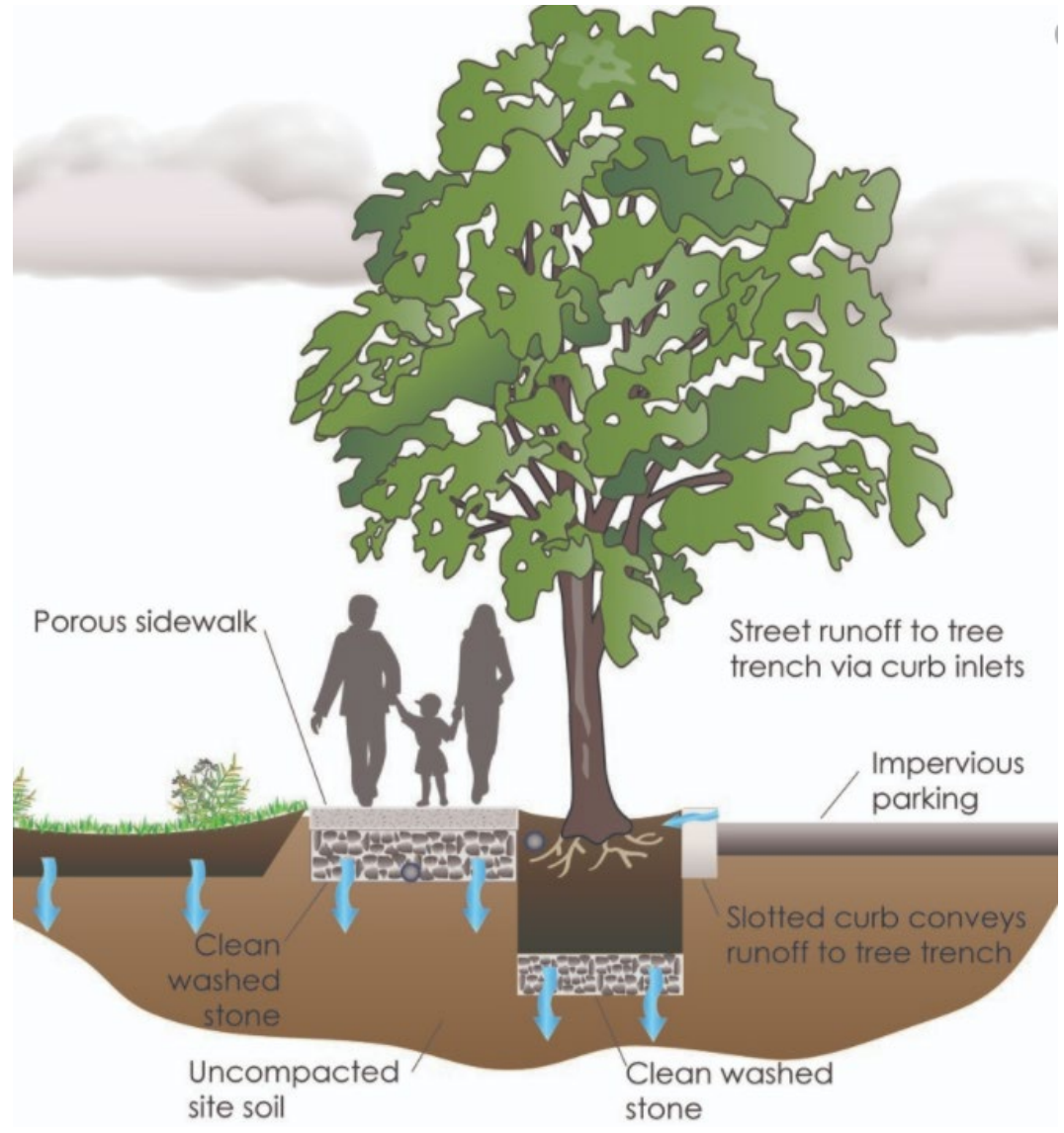
- Catalogues Completed Projects
- Incorporates Newest Projections
- Updates Feasibilities and Costs



Adaptation Update: Stormwater Master Plan

Phase II: Occurring Soon

- Perviousness
- Water Retention/Storage
- Green Infrastructure
- Funding Mechanisms



Impervious only (%)

1995	2004	2006	2015	2017
38	43	43	45	46

Adaptation Update: Post Disaster Redevelopment Plan



		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Post Disaster Recovery & Reconstruction Plan	Technical Memorandum		early	29-Jan						
	Stakeholder Webinar		mid	29-Jan						
	Draft Plan					early	1-Apr			
	Webinar					mid	1-Apr			
	Revised Plan						1-Apr			
	Draft Comp Amendments						18-Mar			
	Planning Board							18-Apr		
	City Commission #1 & 2								11 & 25-May	
	Close Out								28-May	30-Jun

Adaptation Update: Home Elevation Education



		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Home Elevations	Interview & Publish Flyers									
	4 webinars									
	Advisor Help									
	Buyers Coop									
	Final Report & Closeout									30-Jul

Adaptation Update: 10 Year Energy Plan

Goals	Metrics
#1: Advance Energy Efficiency In Existing Buildings	__% Reduction in Energy Demand of existing buildings by _year_ All City Bldgs Energy Star Gold in __ Years
#2: Build Infrastructure that is Efficient AND Renewables Ready	All New buildings __% more efficient than Code All new buildings Solar Ready All New City Buildings, Green Building Certified Gold with Solar.
#3: Create and Procure Renewable Energy through Collaboration	Set Renewable Portfolio Goals: __% by _year_ __% by _year_
#4: Develop a Smart, Reliable, and Resilient Energy System	Driven by KES: Smart grid and microgrids, centralized energy plants
#5: Enhance and Electrify Transportation	__% mode shift to electric vehicles OR __% reduction in transportation emissions (Transportation Ten Year Plan underway)

Adaptation Update: Local Mitigation Strategy

Monroe County and Incorporated Municipalities

Key West, Marathon, Key Colony Beach, Layton,
and Islamorada Village of Islands

Local Mitigation Strategy 2015 Update

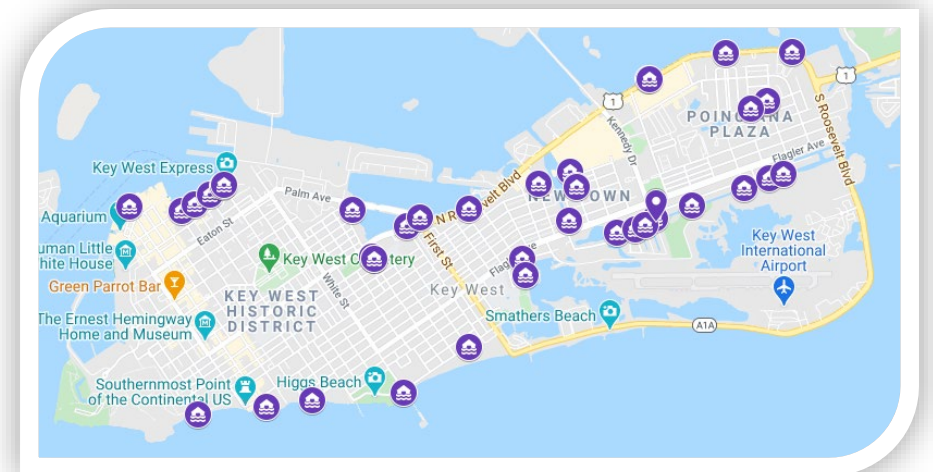


Florida Keys 1935 Hurricane Memorial

November 2015

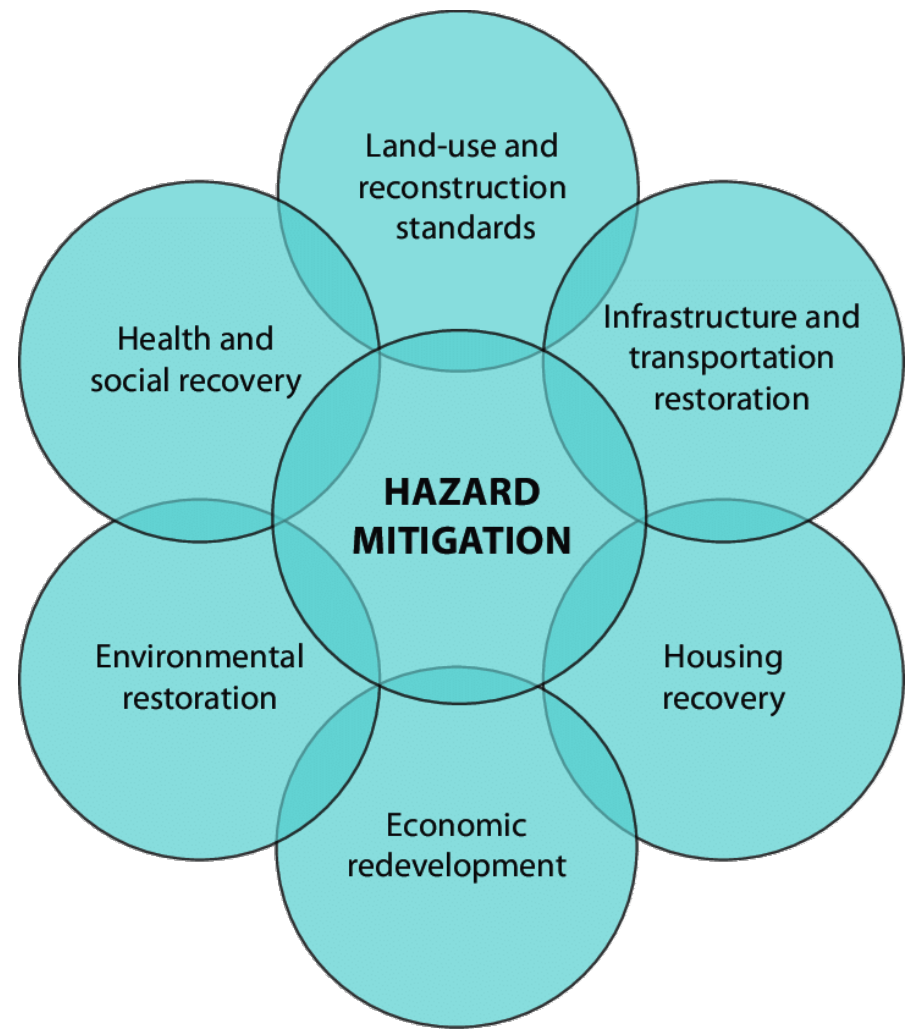
Communication
Energy
Erosion
Flood
Housing
Infrastructure
Operations
Planning
Stormwater
Wellfield
Wind

- Force Main Relocation Project
- Dennis & Venetia St Outfall
- Patricia Ashby Pump Station Well
- Harris Ave / 10th St Neighborhood Drainage
- Generators for Critical Facilities
- Wind Retrofits of Public Service Facilities
- Wind Retrofits of First Responder Facilities
- Tide Valves and Outfall Improvements



Adaptation Update: Grants

- Energy: \$278K
- Housing: \$3M
- Operations: \$6.8M
- Stormwater: \$43M
- Wind Hardening: \$4.1M
- Planning: \$1M



Monroe Countywide Flood Mitigation and Sea Level Rise Resiliency Program



Adaptation Update: Waiting

**FLORIDA KEYS COASTAL STORM RISK MANAGEMENT
FEASIBILITY STUDY**



Upper Keys
Middle Keys
Lower Keys
Key West



**US Army Corps
of Engineers®**



FEMA

Map Service Center

Preliminary FEMA Map Products



Adaptation Update: Monroe County

Monroe County Roadway Vulnerability Study

Increasing Projected Water Levels Throughout County...

SLR Condition: NOAA 2017 Intermediate-High + King Tides

Talking: EMBU CORRALES



High Tide At Key West, Fla.



Adaptation Update

Sustainability
Coordinator
Alison Higgins