



**PRIORITY #2
OF THE STRATEGIC PLAN**

ADAPTATION & SEA LEVEL RISE



6 Priorities for Key West Forward

- 1 Affordable Housing
- 2 Sea Level Rise
- 3 Pavement Management
- 4 Environmental Protection
- 5 Cleanliness
- 6 Traffic & Pedestrian Friendliness

Youth & Families

The Arts & Culture

Homelessness

Business

KEY WEST



3,776 Key West Community Members:

What is Your Biggest Concern?



WHY IS
SEA LEVEL
RISE A
PRIORITY FOR
KEY WEST?

Source:
US Army
Corps of
Engineers,
2018



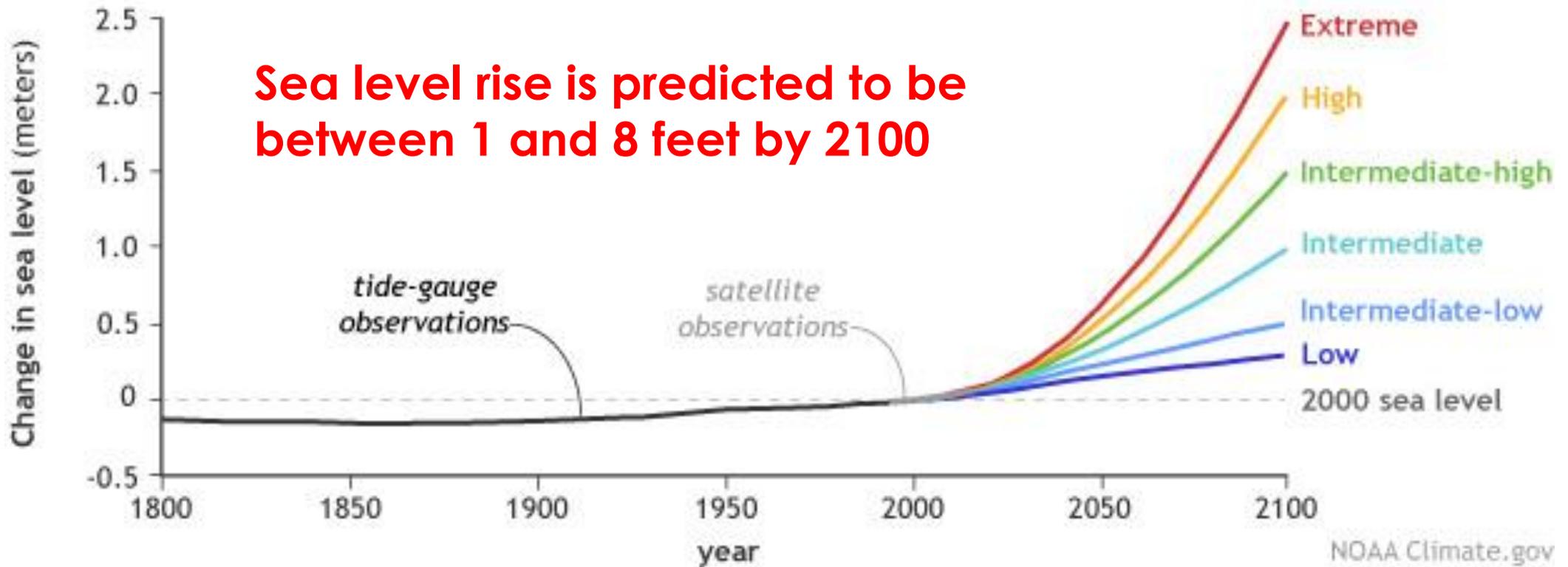
**MONROE
COUNTY
AMONGST THE
MOST
VULNERABLE
COUNTIES IN
THE NATION**

RANK	U.S. COUNTY	POPULATION DISPLACED
1.	Tyrell, NC	45%
2.	Hyde, NC	42%
3.	Monroe, FL	36%
4.	Dare, NC	21%
5.	Currituck, NC	20%
*	Miami Dade, FL	3%
*	Broward, FL	1%

**Dry land that will go under
water by 2060 in relation
to the number of people
living there.**
(2 feet of SLR)

Is Key West at Imminent Risk?

Possible future sea levels for different greenhouse gas pathways



Sea level rise is predicted to be between 1 and 8 feet by 2100

NOAA Climate.gov
Adapted from Sweet et al., 2017

Impacts: Livability, property values, tourism & our economy well before 2100



STORM & TIDAL FLOODING

VS.

SEA LEVEL RISE

Sea level continues to rise at a rate of about **one-eighth of an inch per year**.

Higher sea levels mean more frequent tidal flooding and destructive storm surges push farther inland than they once did.

They're not the same, but we need to address both.

IN THE END, WILL THE WATER WIN?



4 OPTIONS FOR A LONG-TERM ADAPTATION STRATEGY AND PLAN

1. Protect
2. Accommodate
3. Avoid
4. Retreat

State has allocated \$4 billion; Feds \$2 Trillion

CITIES WITH LONG-TERM STRATEGIES AND PLANS

- Los Angeles
- San Diego
- Greensboro
- Washington DC
- St. Augustine
- Santa Monica
- Miami Beach
- Charlotte
- Seattle
- Charleston
- New Orleans
- Punta Gorda
- Aspen...& many more



A Strategy for Key West: Bridging the Gap Between the Short & Long Term

**Short Term
Flood
Mitigation
Projects**

- **Partnerships**
- **Regulation**
- **Capacity & Funding**

**Long Term
Adaptation
Plan**



- **Sara Fangman**, Superintendent, Florida Keys National Marine Sanctuary, NOAA
- **Jeff Carney**, University of Florida Professor, School of Architecture and Associate Director, Florida Institute for Built Environment Resilience (FIBER) Director, Florida Resilient Cities Program (FRC)
- **Chris Bergh**, Director of the Nature Conservancy
- **Scott Miller**, Engineer, Key West
- **Bunnie Smith**, Community Member (formerly in finance with the US Military)
- **Val Marmillion**, Communications Director of the American Wetlands Foundation
- **Erin Deady**, Erin Deady Law, Adaptation Consultant for Monroe County
- **Rhonda Haag**, Chief Resilience Office, Monroe County
- **Christine Hurley**, Assistant County Administrator, Monroe County
- **Patty McLauchlin**, City Manager
- **Mark Finigan**, Finance Director
- **JP Castro**, Utilities Director
- **Katie Halloran**, Planning Director
- **Alison Higgins**, Sustainability Coordinator
- **Steve McAlearney**, Engineering Director
- **Kelly Crowe**, City Engineer

**WHO
GAVE US
INPUT?**

THE PLAN FOR SEA LEVEL RISE

Goal 1: SHORT-TERM PROJECTS TO MITIGATE FLOODING (0-10 YRS)

prioritize storm water, floodproofing, wind hardening projects

Goal 2: LONG-TERM ADAPTATION PLAN (10 + YRS)

3 steps:

1. vulnerability assessment
2. long-term strategy (protect, accommodate, avoid, retreat)
3. implementation plan (projects)

Goal 3: PARTNERSHIPS & LINKAGES TO OTHER PLANS

partnerships: county/ACOE, Southeast Florida Regional Compact, state, military
plans: stormwater, PDRRP, energy

Goal 4: REGULATORY

update Comprehensive Plan ordinances, LDRS, zoning

Goal 5: CAPACITY

- resiliency team (1 FTE now)
- adaptation fund
- communication/education

FAMILIES

THE ARTS

PUBLIC EDUCATION

HOMELESS

BUSINESS

HOW DO WE
INTEGRATE
THE ARTS,
FAMILIES,
BUSINESS AND
THE
HOMELESS?

What will **change in the lives** of our community members as a result of our work on Sea Level Rise?



- **Less flooding and damage in the short term (10 years)**
- **More protection against storms/wind**
- **Retain our people**
- **THE FUTURE OF OUR ISLAND**