



PRIORITY #2 OF THE STRATEGIC PLAN

ADAPTATION & SEA LEVEL RISE



6 Priorities for Key West Forward

Youth & Families

The Arts &
Culture

Homelessness

Business

1

Affordable Housing

2

Sea Level Rise

3

Pavement Management

4

Environmental Protection

5

Cleanliness

6

Traffic & Pedestrian Friendliness

KEY WEST



3,776 Key West Community
Members:

What is Your Biggest
Concern?



WHY IS
SEA LEVEL
RISE A
PRIORITY FOR
KEY WEST?

STORM & TIDAL FLOODING OR SEA LEVEL RISE?



10th St. Boat Ramp

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.

Source:
US Army
Corps of
Engineers,
2018



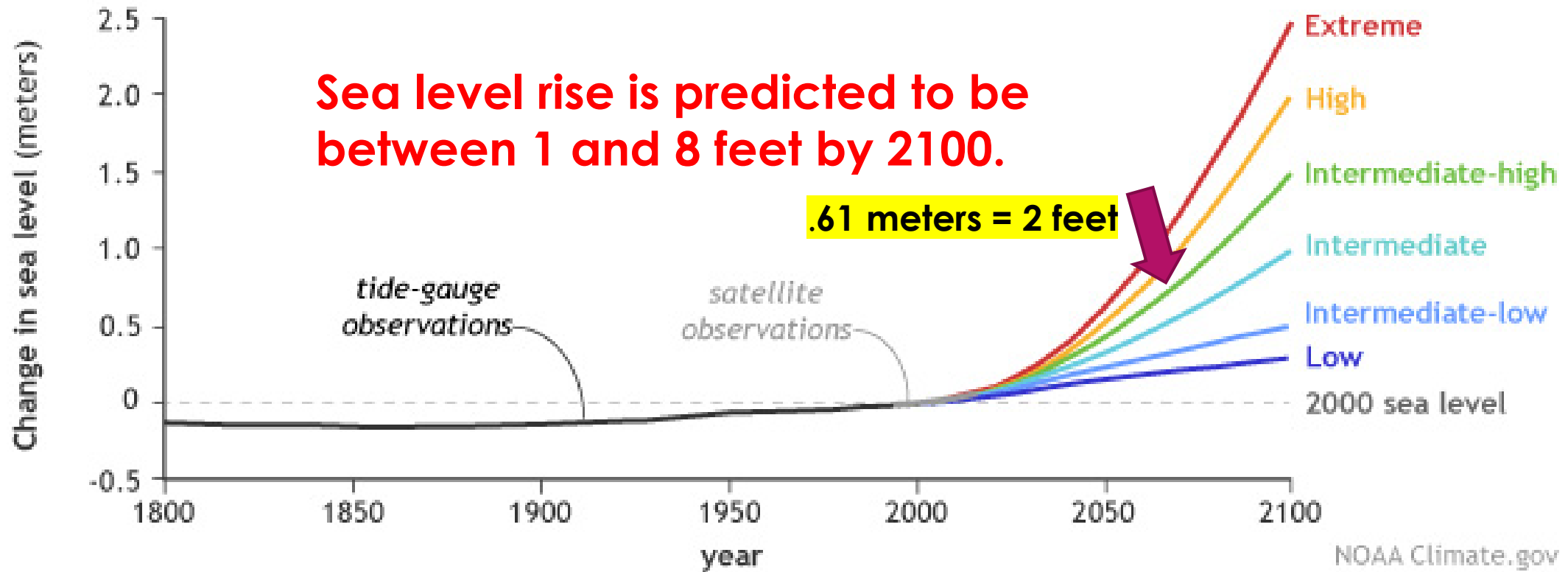
**MONROE
COUNTY
AMONGST THE
MOST
VULNERABLE
COUNTIES IN
THE NATION**

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



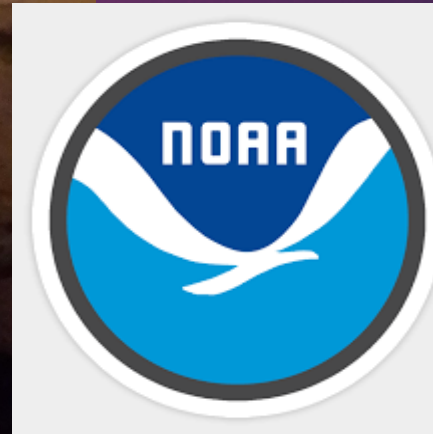
NOAA Climate.gov
Adapted from Sweet et al., 2017

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

IN THE END, WILL THE WATER WIN?



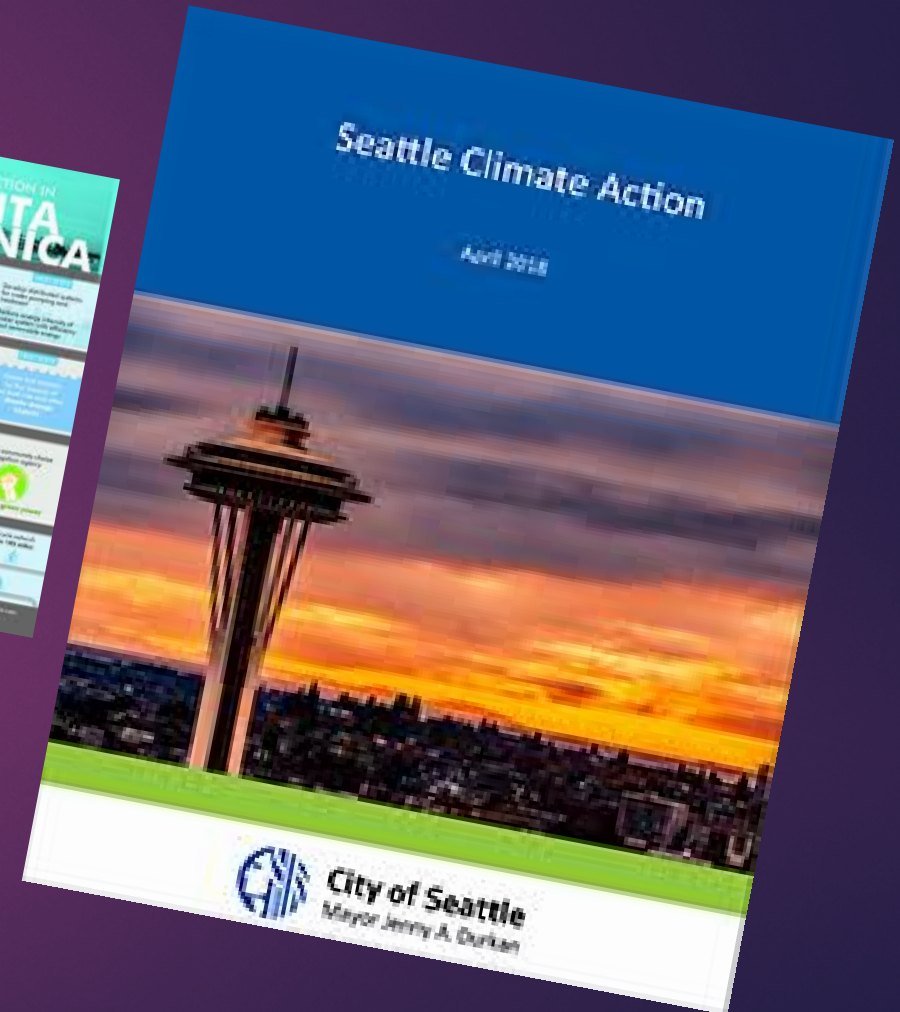
We need a
Long-Term
Strategy & Plan



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

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 (FY21-22)
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

- **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?

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**