USING PROJECTIONS TO INFORM PLANNING AND DESIGN: FUTURE CONDITIONS STANDARDS AND A COMMUNITY RESILIENCE PLAN

COMPACT SLR WEBINAR SERIES JUNE 25, 2020









SEA LEVEL RISE: PLANNING AND INVESTMENTS

- Considerations
 - Land Use
 - Drainage
 - Resilience Standards
 - Finished Floor Elevation
 - Infrastructure Citing

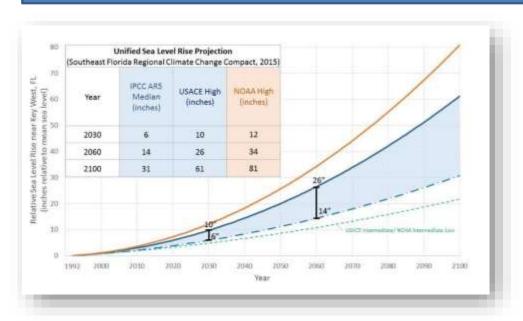




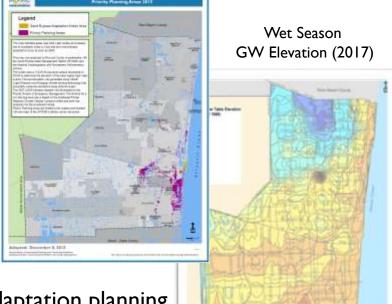




FUTURE CONDITIONS PLANNING: SEA LEVEL RISE, LAND USE, AND GROUNDWATER



Priority Planning Area (2012)



Commission adoption directed staff use as basis for adaptation planning

COUNTYWIDE RESILIENCE STANDARDS: TIDAL FLOOD BARRIERS

- ☐ Approved March 31, 2020
- Accounts for:
 - 2 feet sea level rise
 - High tides
 - 25-yr storm surge
- Requires 5 feet NAVD by 2050, allows 4 feet NAVD until 2035
- Requires municipal adoption in 2 years



Hollywood Marina



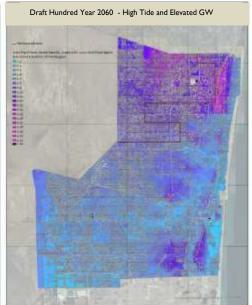


FUTURE CONDITIONS: 100-YEAR FLOOD MAP

2060 condition: 2 feet SLR (GW, Surface Water, High Tide, 13% Rainfall Increase)







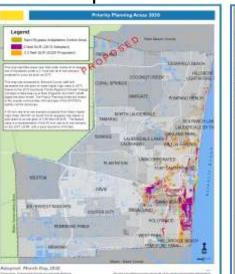
FUTURE CONDITIONS: THE NEXT GENERATION

PPA Workshop: June 23 at 10 am & July 7 at 1 pm.

2020 Priority Planning Area Update

WEITING.

 $2015 \text{ Map} = 6.8 \text{ mi}^2$



 $2020 \text{ Map} = 17.6 \text{ mi}^2$ DDCOWNT-USER) ingle liabor deliction of loads that if arrapaises had readed in approximating all association of 1 this float behalfoot. The frequent often is a regimentation of this of such seas area into associa-Website Committee MARTIN.



40" Current Target

https://global.gotomeeting.com/join/698570677

NEXT STEPS: A COUNTYWIDE RESILIENCE PLAN

- ☐ Update Groundwater Table Map
- ☐ Assess 100-yr Flood Elevation w/ 40" Scenario
- County-wide Risk Assessment and Resilient Infrastructure Plan
 - Basin-level analysis
 - Critical infrastructure and services
 - Mitigation strategies
 - Capital improvements
 - Redevelopment strategies
 - Planning level cost estimates
 - Quantified risk reduction
 - Implementation scenarios





Courtesy of MIT and U Toronto

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