





If we need to adapt, how do we ensure we do it well ....? ▶15 principles Structured around three basic themes: *science*, equity, and common-sense ambition. Designed to be used by decision makers and practitioners from local to federal level; & to articulate our science- and values-based approach.

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#### Use rigorous science

### **{** 1. Consider projected climate conditions.



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FIGURE 2. How Sea Level Rise Causes Tidal Flooding and Land Loss



As sea level rises, extreme tides cause local flood conditions to occur more often, to a greater extent, and for longer time periods. And the daily high tide line can eventually begin to encompass new areas, shifting the tidal zone onto presently utilized land. In this analysis, land inundated by at least one high tide each day is considered a loss. This is a highly conservative metric: far less frequent flooding would likely lead to land being considered unusable.





#### **3. Match scope of planning to magnitude of projected change**





As high tide reaches farther inland, extensive land loss is possible at NAS Key West. Affected land may include developed and undeveloped areas and even wetlands that reside above the current high tide mark. NAS Key West is projected to see substantial loss of currently developed and utilized areas, particularly with the faster rate of sea level rise.

# **{ 4. Aim for robust decisions and policies**



#### 5. Create opportunities to revise and change course

E.g. Louisiana Coastal Master Plan: 2007, 2012 and plan for 2017 new items:
1) Emphasizing communities; 2) Focus on flood risk reduction & resilience;
3)Improving models & 4) Expanding partnerships & collaboration.



# Support equitable outcomes

# 6. Ensure costs of responding to climate change and benefits of resilience-building are equitably shared



#### $\begin{cases} 7. \text{ Decide with, not for} \end{cases}$



# **8. Minimize harm and maximize options**



# **§** 9. Equip and empower local experts



# { 10. Maximize transparency, accountability, and follow-through



# Apply ambitious common sense

#### { 11. Weed out maladaptation, both existing and proposed



### **{** 12. Consider the costs of inaction



## **{ 13. Work to protect the things citizens cherish**



#### **{ 14. Reflect a long-term vision**



# **{ 15. Appreciate limits to adaptation and push mitigation**



#### Thank You

Adapt & learn