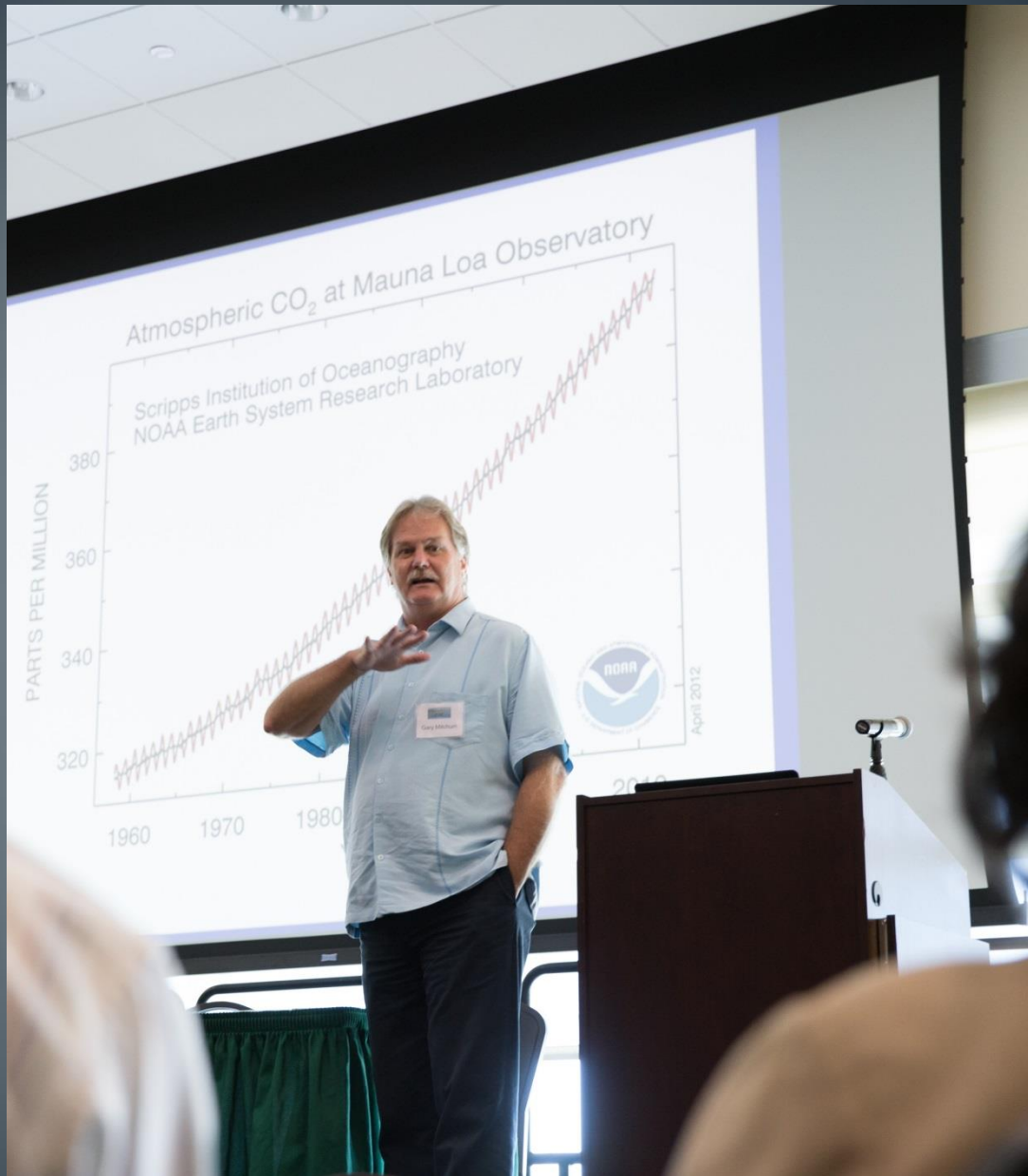


**Initiative on Coastal  
Adaptation and  
Resilience  
USFSP**

**September 22 - 23, 2015**







## Climate Networks



- National Sea Grant Network
- Association of Natural Resource Extension Professionals Climate Science Initiative
- Gulf of Mexico Climate Outreach Community of Practice
- Southern Region Extension Climate Academy
- Florida Natural Resources Leadership Institute

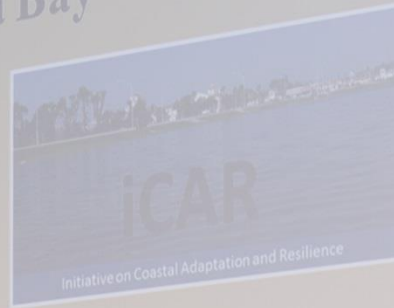






# Coastal Adaptation and Resilience Tampa Bay

## *Adaptation Strategies in Tampa Bay: Policy Gaps \**



Mark R. Hafen, Ph.D.  
Asst. Director, USF School of Public Affairs  
Master of Urban & Regional Planning Program



*\* Many thanks to Maya Burke of TBRPC for input on this topic.*

















rcumstances  
ocial and cultural norms



OFFICE FOR COASTAL MANAGEMENT  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

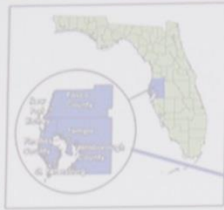






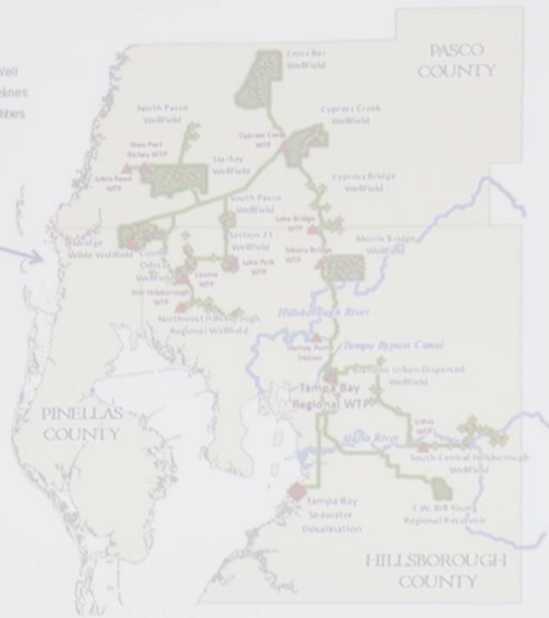


# WATER



## Legend

- Production Well
- Existing Pipelines
- Existing Facilities
- Rivers



Wholesale drinking water to six governments

2.4 Million Residents

220-250 mgd annual average

Diverse Water

System



Maya Burke  
Senior Environmental Planner  
Tampa Bay Regional Planning Council



Y  
 TBRPC  
 (ZEL)

# SCIENCE

Community Representation  
 Locality, Students  
 Ex. Council  
 Part

How  
 in 5-10 scenarios - over which  
 has need  
 effects of pop growth & economic  
 water demands

... needs not just mitigation but greater overall  
 in need, in water being in "low flow base"  
 means forums to transmute the message of  
 change  
 to wider general interests?  
 to reach distributed communities?  
 to educate the general public?

in the Intermediate  
 level - develops towards Regional Plan  
 Vision - to identify appropriate water  
 resources - holistic approach

# SCIENCE

1. the surround, Environmental/Engineering Context  
 Education, expertise
2. Current knowledge
3. Gaps  
 infrastructure data / moint inventories  
 communication, social science to policy makers  
 Factor in economic & social consequences  
 communicate economic & social consequences  
 non-profits filling gaps of government  
 disconnect bet. public, planners along with  
 disconnect of developers & policy makers  
 lack of accountability of developers  
 are we learning lessons  
 getting the "good research" out there?  
 filling the "good research" out there?
4. All gaps

# SCIENCE

→ Broaden science to other disciplines  
 - law, economics, green technology, Habitat

7) Better  
 uni, orgs  
 engaged  
 related

Among SP Agencies  
 / site to involve a  
 development industry

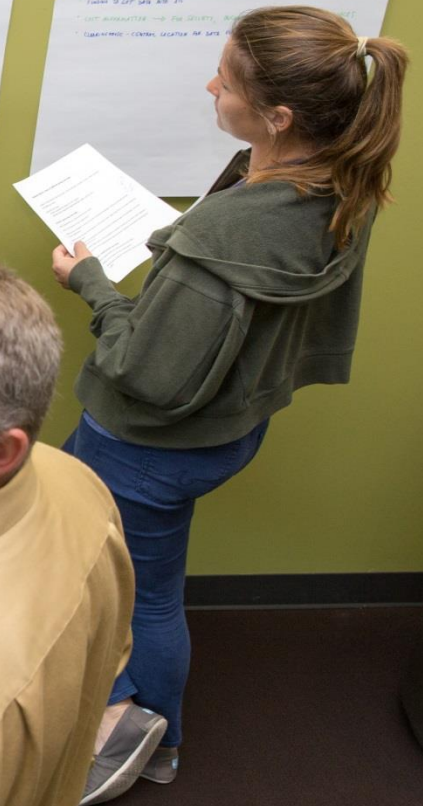
A) Local

# DATA

NEEDS/  
 GAPS

• HAVE SOME THOUGHTS ABOUT AVAILABLE DATA IN THE  
 TYPICAL RAY AREA

• "BROAD" TRANSDISCIPLINARY APPROACH  
 • UNDERSTANDING APPROXIMATE THE "SCALE" OF THE DATA  
 • HOW "BROAD" IS THE DATA? (LOCALITY, REGIONAL, STATE,  
 NATION, GLOBAL) - HOW "DETAILED" IS THE DATA?  
 • TIME "PERIOD" - DATA / TIME, HOW "FREQUENT" IS THE DATA BEING  
 COLLECTED? (DAILY, MONTHLY, QUARTERLY)  
 • WHERE IS THE DATA? (LOCATION)  
 • WHAT IS THE DATA FOR?  
 • HOW "ACCURATE" IS THE DATA?  
 • HOW "CURRENT" IS THE DATA?















- |               |                         |                   |                |                  |                     |                   |
|---------------|-------------------------|-------------------|----------------|------------------|---------------------|-------------------|
| Shelley Agnew | Lindsay Edwards         | Sharon Dowling    | Albert Hine    | Elizabeth Merton | Hannah Gowinski     | Cher Tanner       |
| Alptra Allen  | Stephen Backman         | Hilary Flower     | Jihye Joong    | Steven Meyers    | Barbara Spaulding   | Damian Torres     |
| Kent Boney    | Jerry Carroll           | Hannah Gorski     | Kelsey Kappler | Vicki Parsons    | Michael Salisbury   | Augustino Udogwu  |
| Ashley Brou   | Candice Clouston-Rhodes | Cathy Harrelson   | Denise Lynch   | Christina Powell | David Sinclair      | Alexander P. Ward |
| man Jr.       | Rodney Chaffman         | Sharon Hanna-West | Mark Luther    | Ann Redmond      | Michelle Sonnenberg | Sharon Wright     |
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