

# Recommended Projection of Sea Level Rise in the Tampa Bay Region

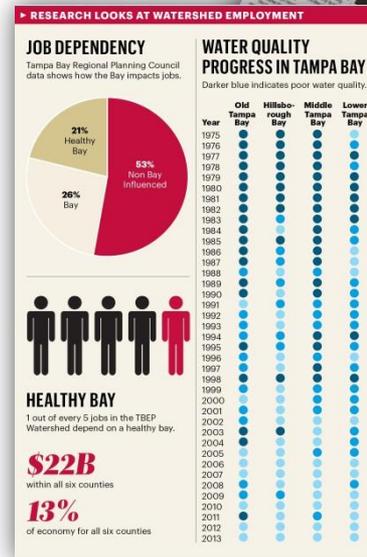
*Submitted to the Tampa Bay Regional Planning Council by the*

Tampa Bay Climate Science Advisory Panel



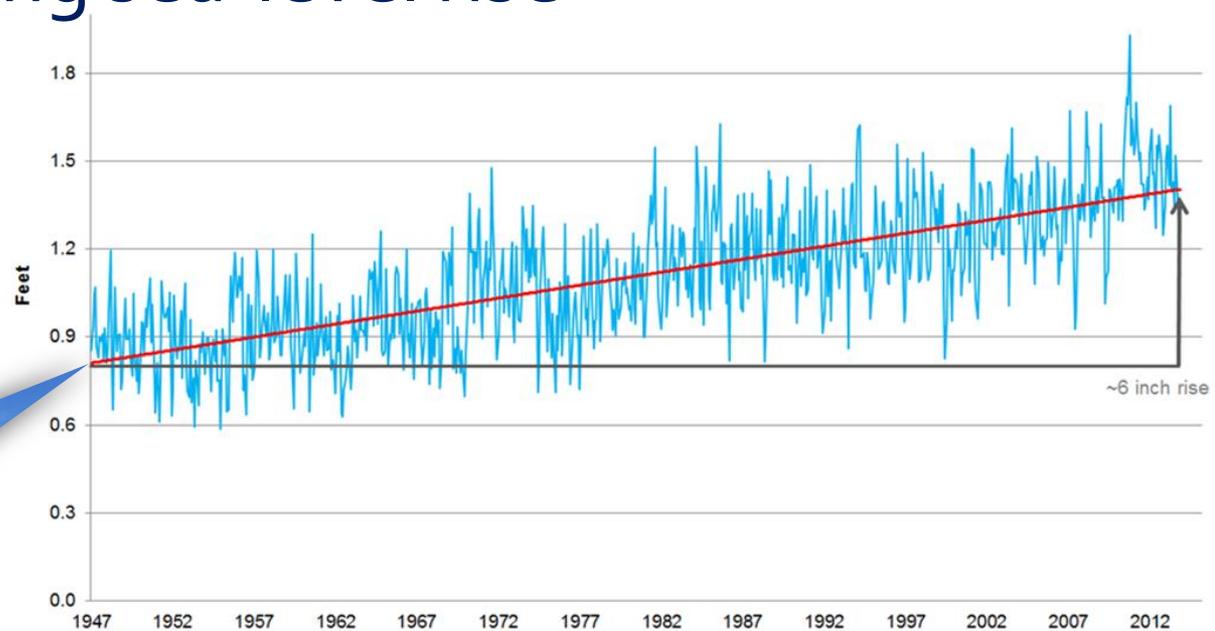
# Tampa Bay...today

- Regional economy valued at \$170 billion
- \$51 billion directly influenced by Tampa Bay

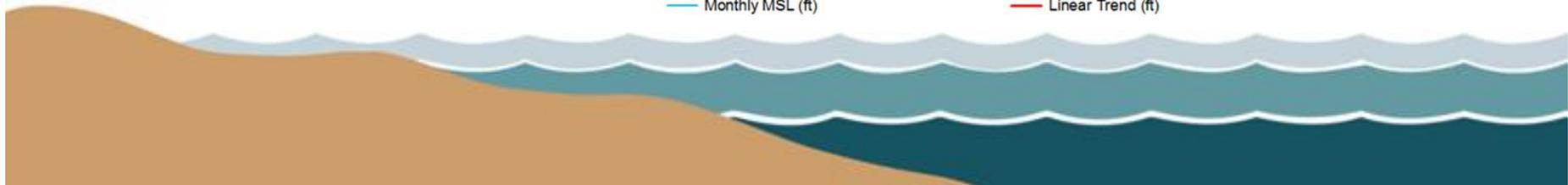


# Tampa Bay...today

- Scientific data shows region is already experiencing sea-level rise

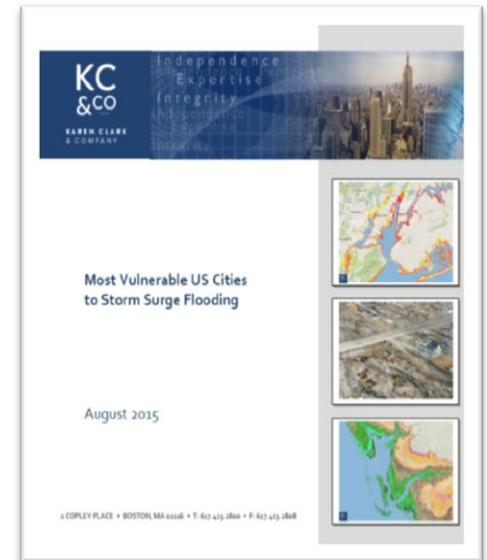


<http://tidesandcurrents.noaa.gov/stationhome.html?id=8726520>



# Tampa Bay...today

- Tampa/St. Petersburg is 1 of the 10 most vulnerable coastal metropolitan areas



# Tampa Bay Climate Science Advisory Panel

- Formed in 2014

- GOAL:

*Collaboratively develop recommendations for local governments and regional agencies as they respond to climate change and associated sea-level rise (SLR)*



# Scientific Membership

Convener- UF/IFAS Extension, Florida Sea Grant

- Federal, State, Regional Agencies
- Academic Institutions
- Local Governments



**UF** | IFAS Extension  
UNIVERSITY of FLORIDA

**Sea Grant**  
Florida



# Working Objective #1

Formulate a recommendation for a unified SLR projection in the Tampa Bay region

**☑ DONE!**



# Process

Facilitated  
Discussion



Literature  
Review



Context  
Speakers



# Estimated Relative Sea Level Change

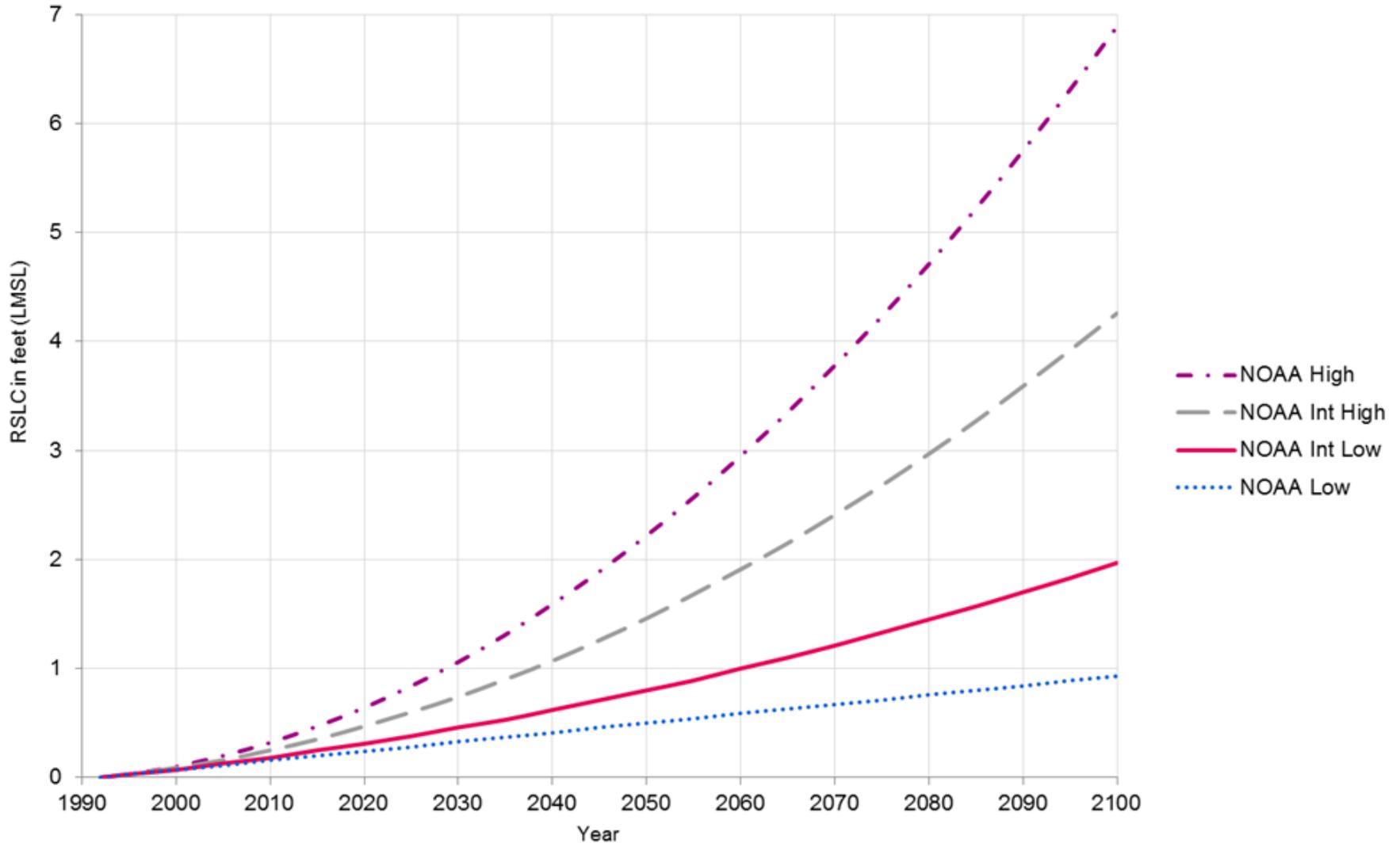
St. Petersburg, FL (Feet), NOAA Station #8726520

All values are expressed in **feet** relative to LMSL

Year	NOAA Low (Feet)	NOAA Int Low (Feet)	NOAA Int High (Feet)	NOAA High (Feet)
1992 <sup>13</sup>	0.00	0.00	0.00	0.00
2025	0.28	0.38	0.60	0.84
2035	0.37	0.53	0.90	1.31
2050	0.50	0.80	1.46	2.22
2065	0.63	1.10	2.15	3.35
2075	0.71	1.33	2.68	4.23
2100	0.93	1.97	4.26	6.89

# Relative Sea Level Change Scenarios

St. Petersburg, FL (Feet), NOAA Station #8726520

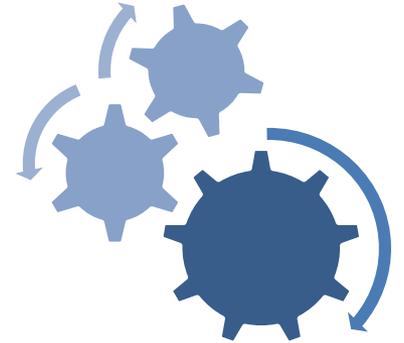


# Recommendation Highlights

- 1) Projections of SLR should be “regionally corrected” using the St. Petersburg tide gauge.
- 2) Projections of SLR should be consistent with NCA (NOAA) estimates and methods.
- 3) Adaptation planning should employ a scenario-based approach that considers, at a minimum, location, time horizon and risk tolerance.



# Next Steps



- Presentation to TBRPC for acceptance (Monday, October 12, 2015)
- SLR recommendation dissemination and rollout
- Technical assistance implementing adaptation strategies & planning efforts
- Revisit SLR recommendation when additional information is available (5 year minimum)

