

SE FLORIDA REGIONAL CLIMATE CHANGE COMPACT



Larry Johnson, P.E., Palm Beach County Water Utilities

Presentation at

“Public Water Supply Utilities Climate Impacts Working Group”

WORKSHOP TWO , Thursday, January 20, 2010

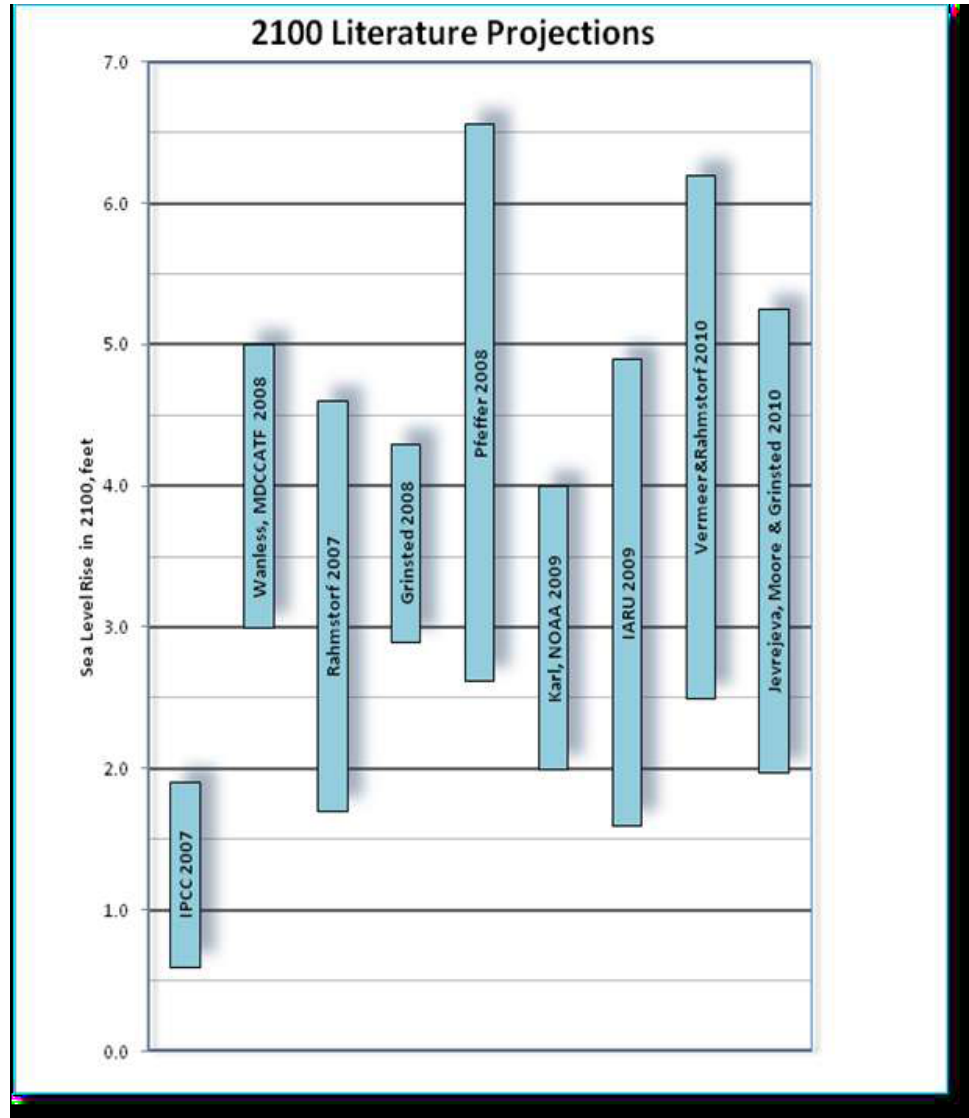
SE FLORIDA REGIONAL CLIMATE CHANGE COMPACT



GOALS

- Develop strategies to respond to climate change impacts
- Develop a SE FI Regional Climate Change Action Plan
- Work on federal and state climate policies
- Pursue federal and state grant funding

SEA LEVEL RISE PREDICTIONS

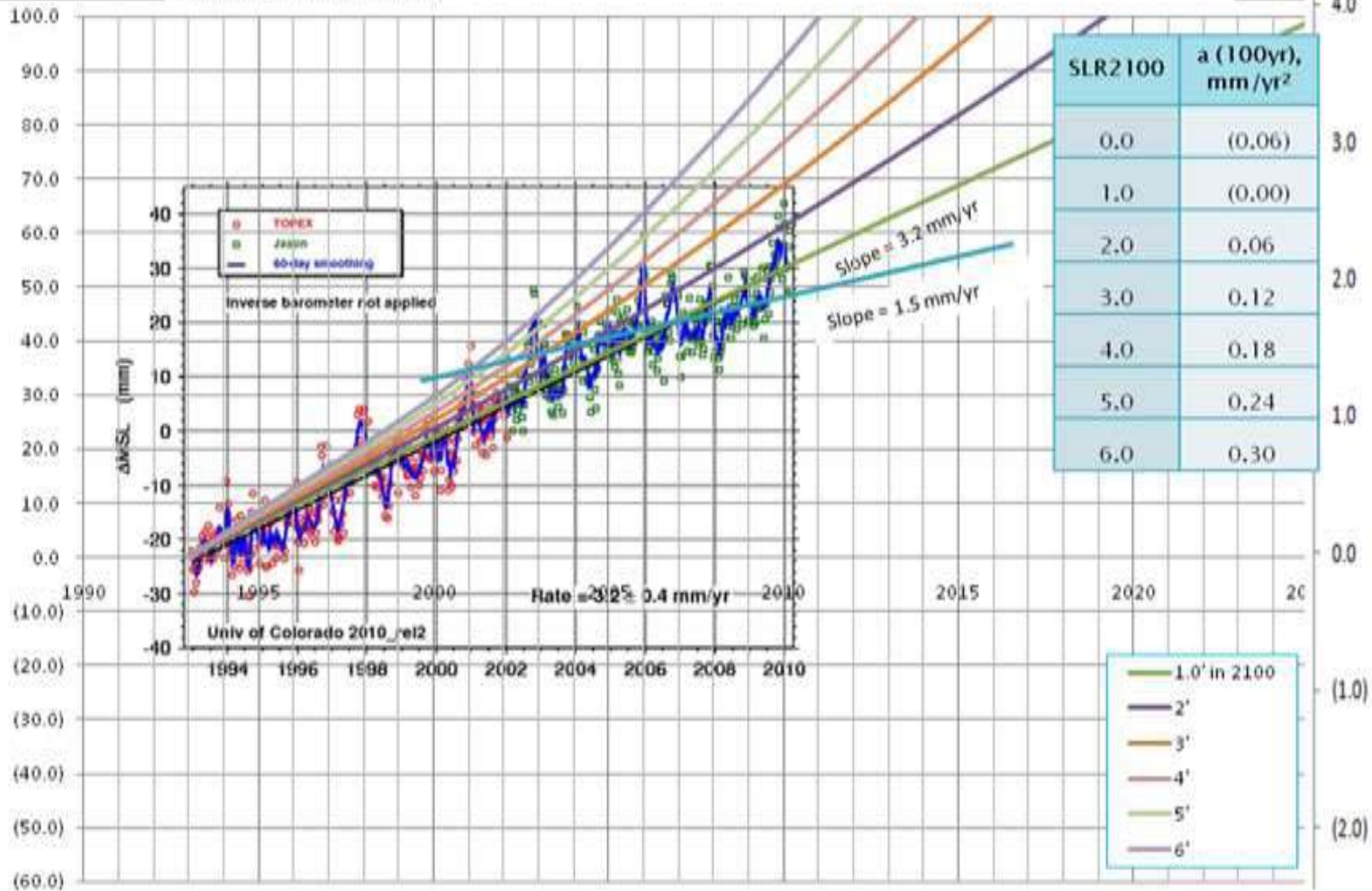


Recent Satellite Altimetry and Short-term Forecasts

Starting in 1993, 3.2 mm/yr

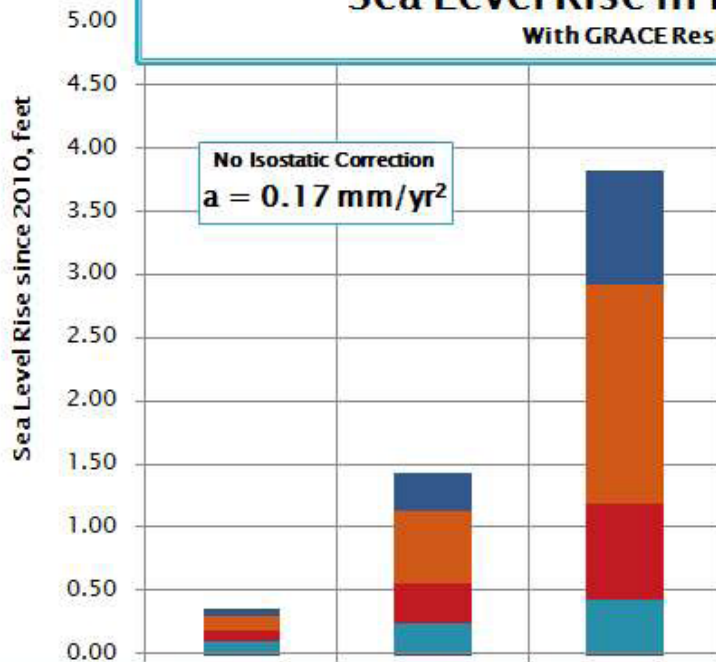
SLR, mm

SLR, inches

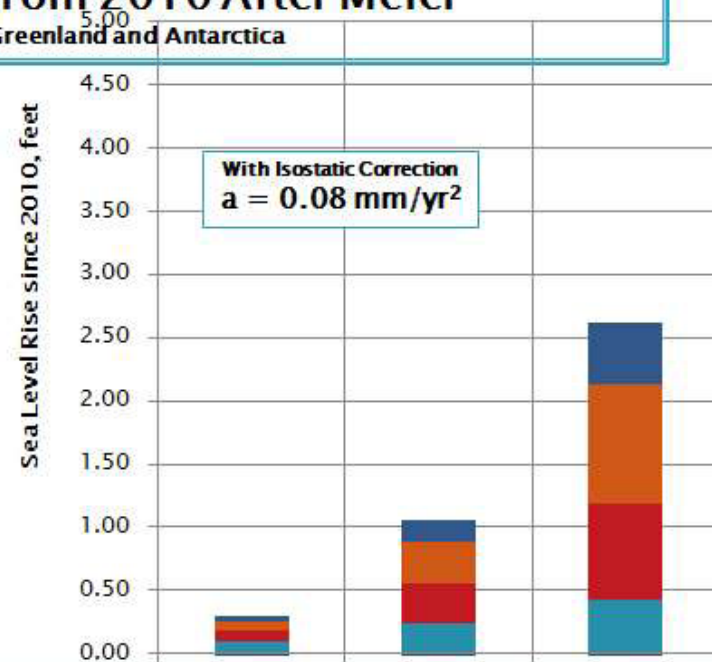


Sea Level Rise in feet from 2010 After Meier

With GRACE Results for Greenland and Antarctica

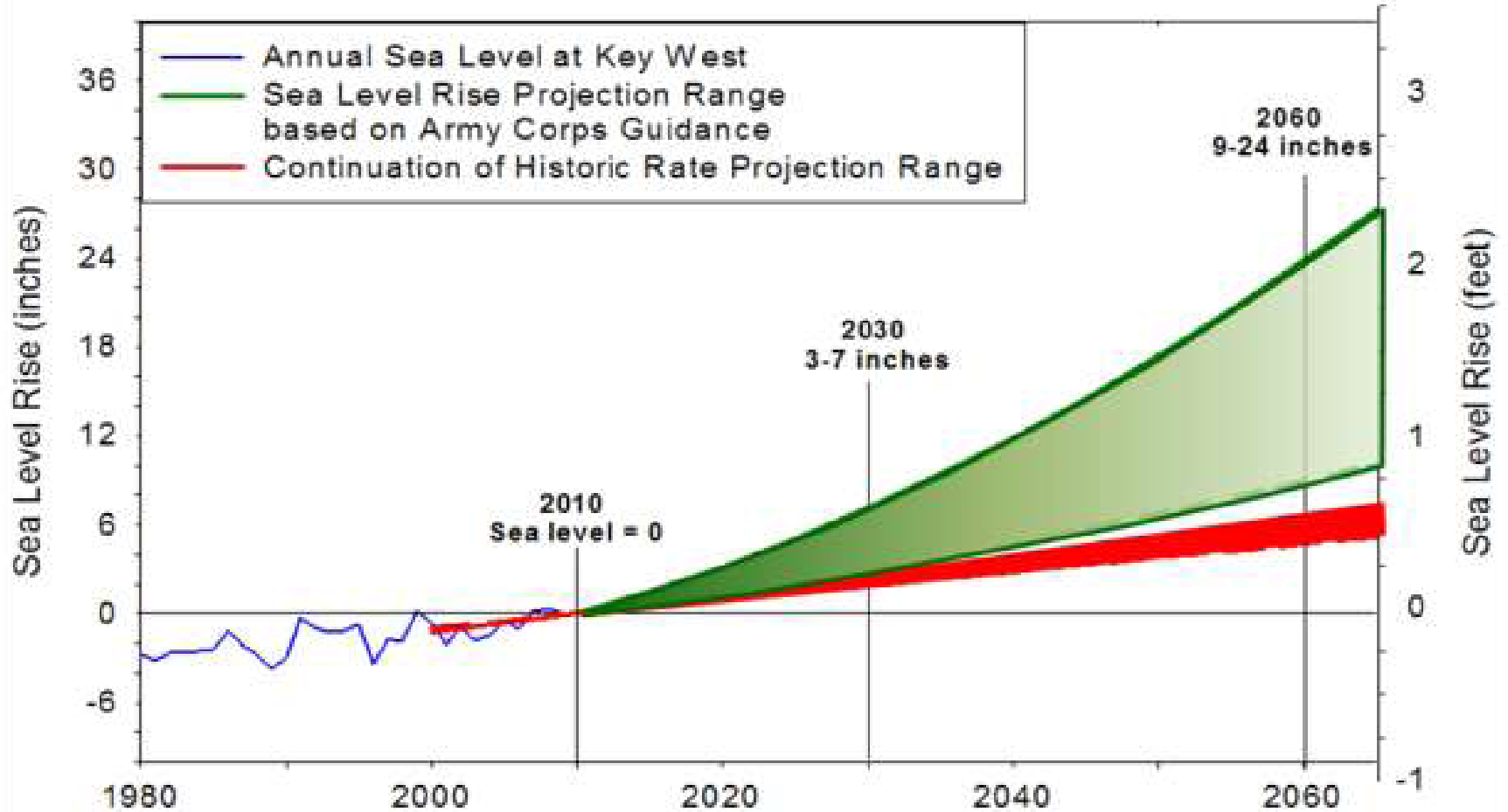


	2030	2060	2100
Thermal Expansion	0.09	0.23	0.42
Glaciers and ice caps	0.09	0.32	0.76
Greenland Ice Sheet	0.11	0.57	1.74
West Antarctic Ice Sheet	0.06	0.30	0.89
East Antarctic Ice Sheet	-0.02	-0.07	-0.18
Global total	0.34	1.36	3.64



	2030	2060	2100
Thermal Expansion	0.09	0.23	0.42
Glaciers and ice caps	0.09	0.32	0.76
Greenland Ice Sheet	0.07	0.33	0.94
West Antarctic Ice Sheet	0.04	0.18	0.49
East Antarctic Ice Sheet	-0.02	-0.07	-0.18
Global total	0.28	0.99	2.45

SEA LEVEL RISE PREDICTIONS



VULNERABILITY ANALYSIS

- Regional Compact Technical Committee was tasked with analyzing impacts of 1, 2, and 3 foot sea level rise using SFWMD's inundation grids (50ft cell size); Broward County has completed initial analysis
- *•Regional Vulnerability Planning Workshop*
- Ports/Airports Railroads
- Wastewater Treatment Plants Wellfield Protection Areas
- Landfills Hospitals
- Emergency Shelters Routes Evacuation
- Schools (BEBR) Population (2010)
- Taxable value of property Miles of road
- Endangered Species Future Land Use
- Habitat/Land Use Land Cover

Example Parcel Impacts

