



Climate Change

Water Resources Impacts

Climate Change Type What may change?

Natural Cycles

El Nino..(3-7yrs)
AMO (multi-decadal)
Glacial (~thousands
of years)

Human Induced

Greenhouse Gasses
Global Warming

Climate Patterns

(uncertain)

- Temperature
- Precipitation
- Evapotranspiration

Sea Level Rise

(already happening)

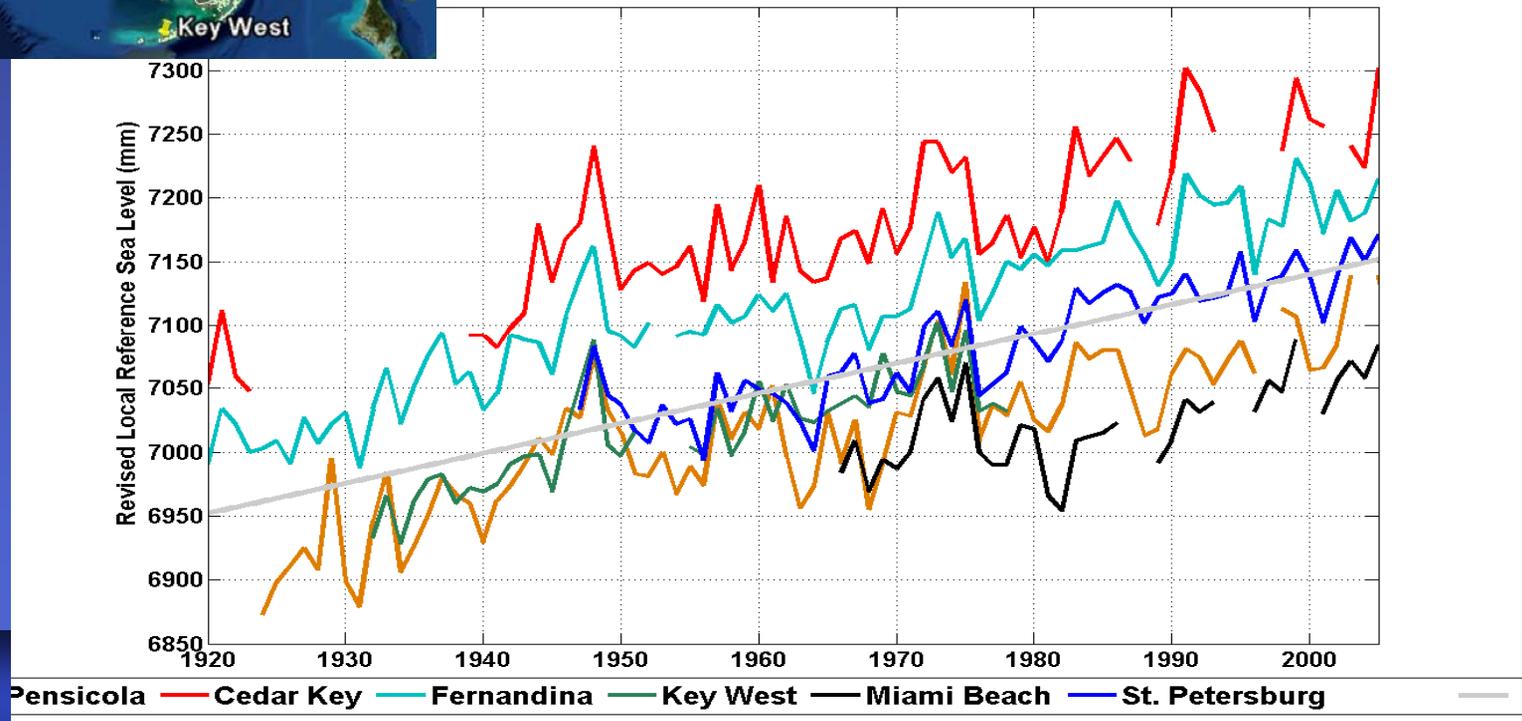
Mission Impacts

- Landscape impacts
- Water Supply
- Flood Control
- Restoration

Sea Level Rise

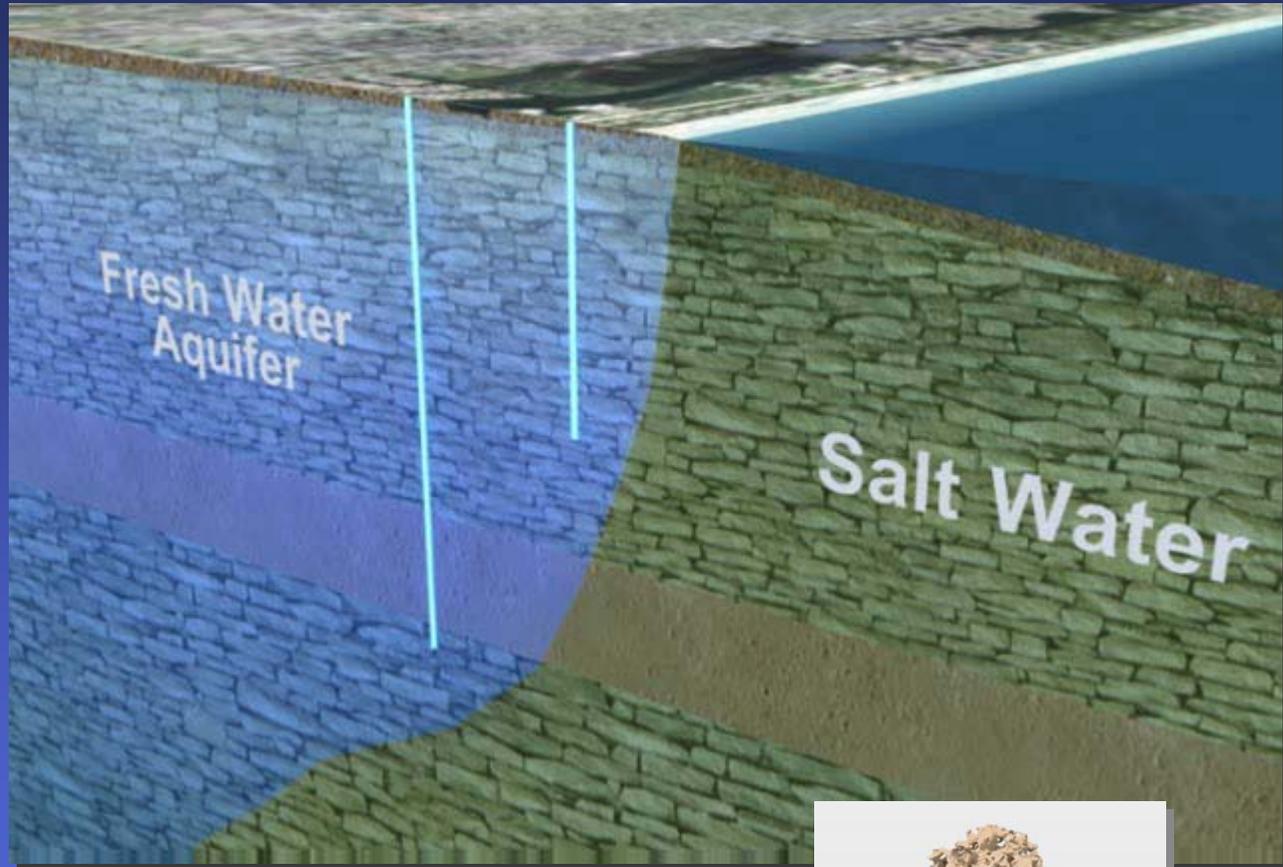
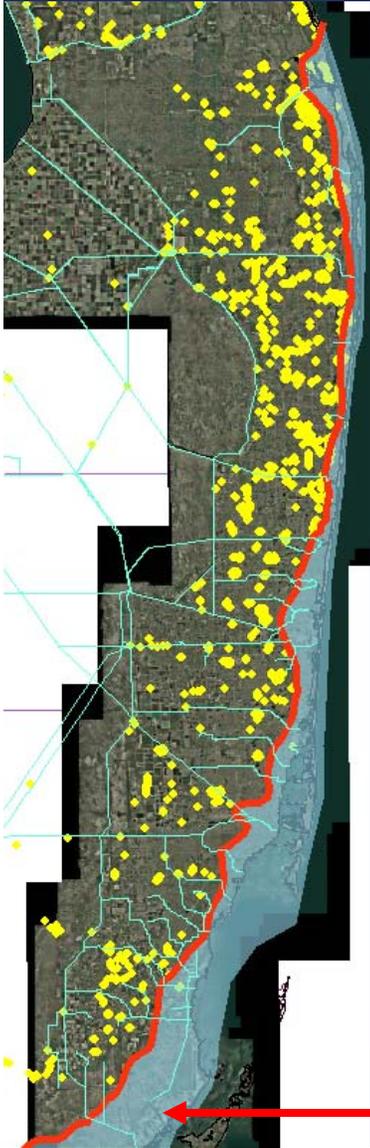


Local Sea Level Rise magnitude is comparable to the global rise (~12 inches / 100 years)



Sea Level Rise

Water Supply: Saltwater Intrusion



Rock sample from Miami



Existing saltwater interface

Current SFWMD Approach

- Analyze both Historical Data and Climate Change Projections to understand trends and uncertainties
- Coordinate efforts with local/state/federal agencies and institutions to develop a common data set and a technical strategy
- In collaboration with the CORPS, develop technical strategies to incorporate climate change in CERP projects
- Develop Modeling Tools

Climate Change Coordination

■ Internal

- Interdepartmental Climate Change Team (interdisciplinary, review technical information) -> white paper
- Technical investigations to understand historical data and climate projections

■ External

- Coordination with local governments that includes providing representation and information on climate change committees and taskforces

Questions?

