



# *Adapting to Global Climate Change in Florida*

*Stephen Adams*

*Staff Director, Governor Crist's Action Team*

*Florida Department of Environmental Protection*

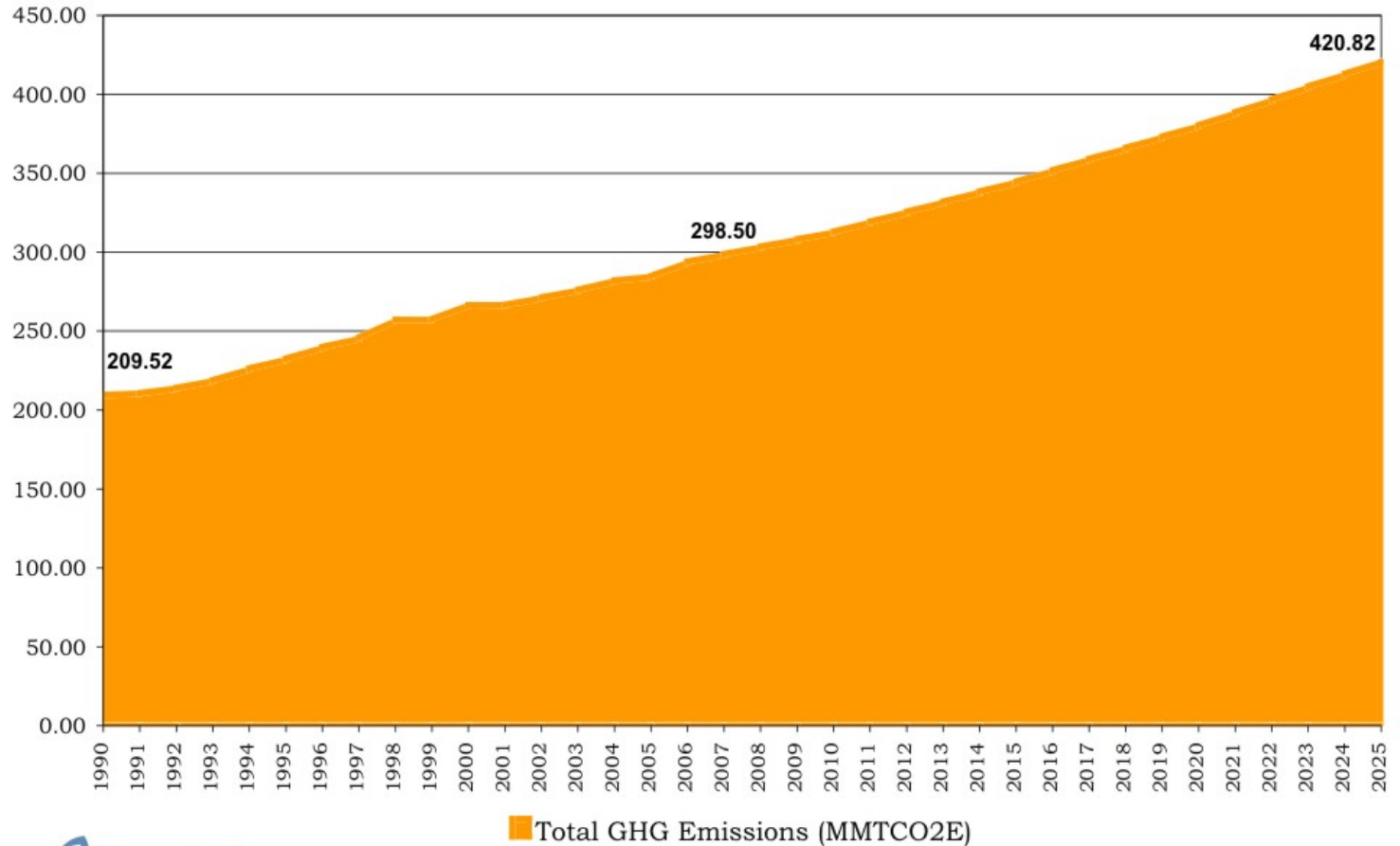
*February 26, 2008*





# “Business as Usual”

## Actual and Projected Greenhouse Gas Emissions in Florida, 1990 - 2025





# *Governor Crist Responds - Florida's Serve to Preserve Summit - July 2007*

- Executive Order 07-126 - Directing State government “leadership by example”
- Executive Order 07-127 - Immediate Actions to Reduce Emissions in Florida
- Executive Order 07-128 - Governor’s Action Team on Energy and Climate Change





# *Governor Crist's Action Team on Energy and Climate Change*

- Phase 1 Interim Report of the Governor's Action Team completed on November 1, 2007.
- The Action Team reconvened for Phase 2 on February 1, 2008.
- Second phase of the Action Team organized around a facilitated stakeholder process.
- Final Energy and Climate Change Action Plan is due October 1, 2008.
- Will include a baseline adaptation plan





# *Governor Crist's Climate Change Legislative Priorities for 2008*

- \$200M for economic development in renewable energy and climate change response
- Cap and trade design and mandatory reporting via The Climate Registry
- Energy efficiency growth standard and 45% increase in efficiency code over 10 years
- Renewable Fuels Standard: 5% by 2012 and 10% by 2015 with 30% LCA performance standard





# *Florida's Climate Policy: Prudent Risk Management*

- Florida's total energy-related GHG emissions equal to less than 1% of global emissions.
- Mitigation policies driven by the need to spur emission reductions across the region, the nation, and other nations.
- Florida faces disproportionate impacts from climate change in “business as usual” scenarios.
- Florida's geography and risk profile require “dynamic mitigation policy.”



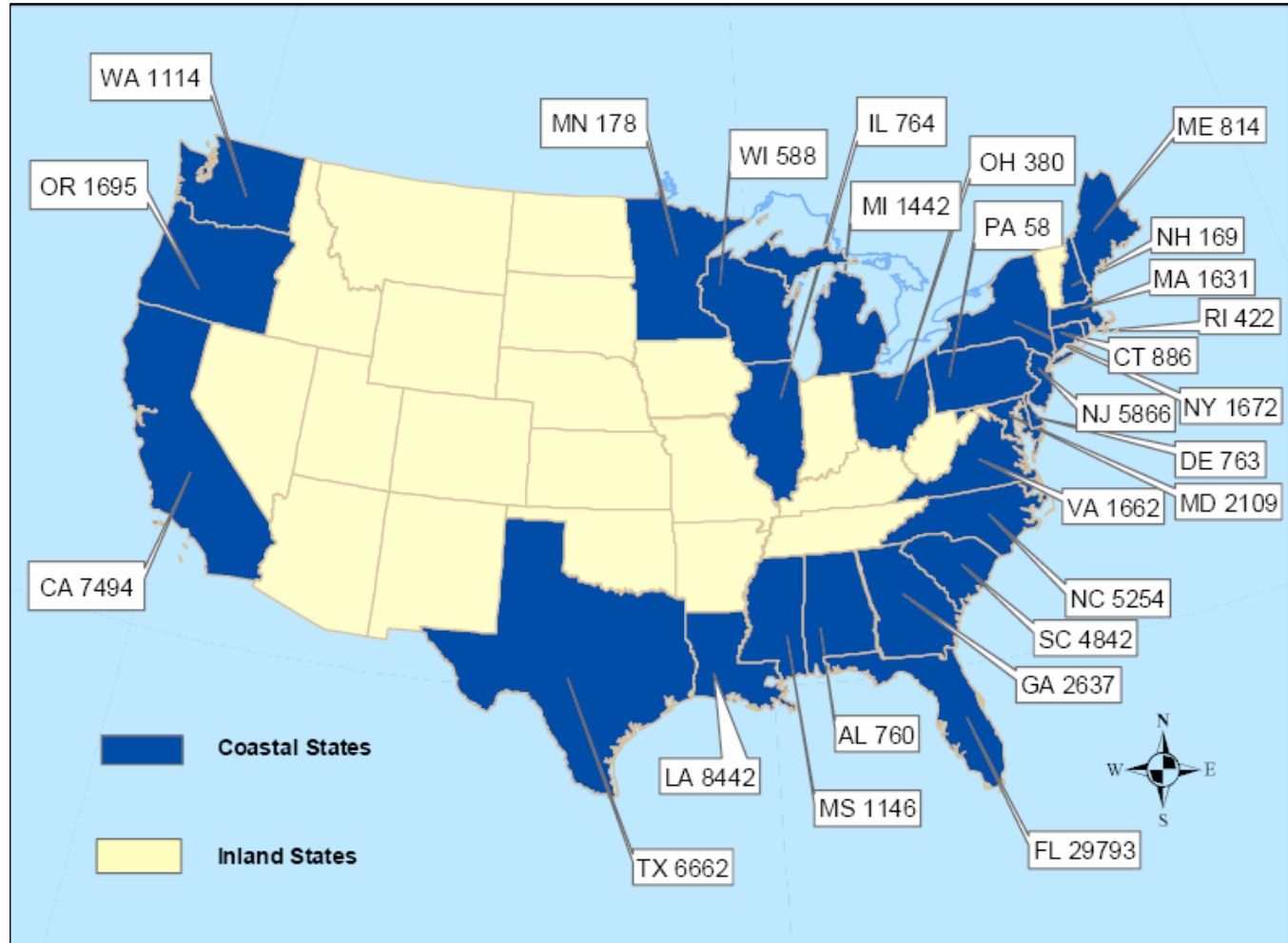


## *Florida's Climate Risk Profile*

- Sea level rise across more than 1,350 miles of coastline;
- Increased hurricane intensities and durations, if not frequency;
- Current population of 18M – projected growth by 2025 to 28.5M;
- Natural systems disruption – high number of endemic species and habitats



# Lower 48 States - Total Coastal Roadmiles in 100 Year Flood Plains



# *Florida's Climate Risk Profile*

- Florida's 2004 hurricane season resulted in more than \$1B in coastal highway damage
- Total property damage in 2004 season: \$42B

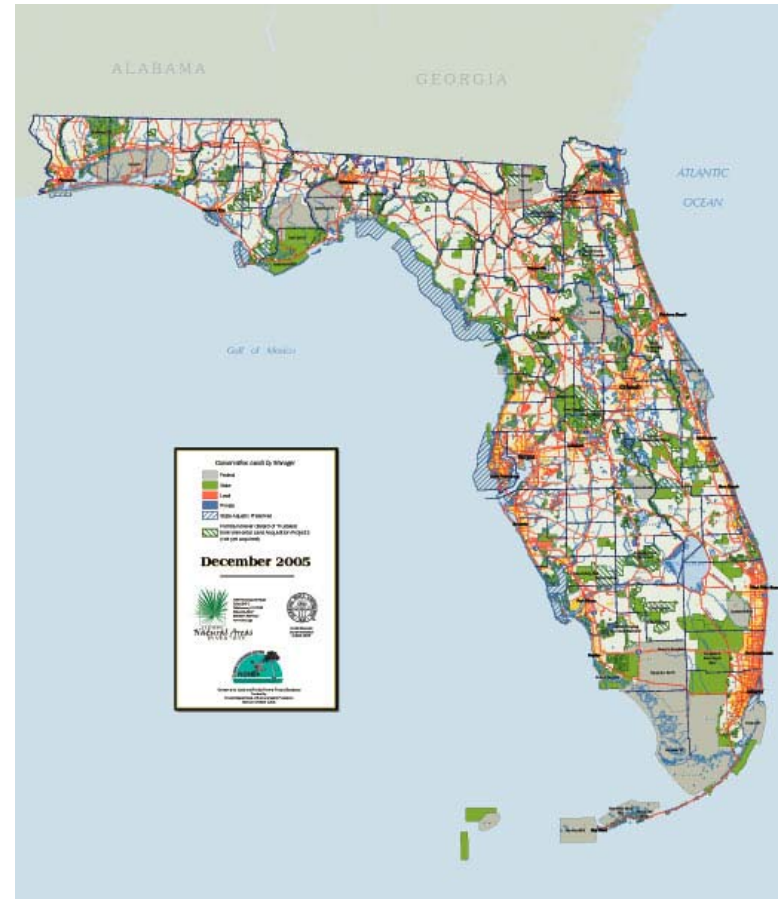


AP Photo



# Managing Impacts to Natural Systems

- Since 1990, Florida has invested \$6B to place more 2M acres of land in conservation;
- Need to manage for resilience in current holdings;
- Future acquisitions must support mitigation while also building additional resilience.





# *Baseline Adaptation Framework*

- Climate adaptation science
- Public Sector Planning & Investment
- Property and Casualty Insurance
- State funding and financing
- Economic development, health and social effects
- Organizing state government for the long-haul





# *Public Sector Planning & Investment*

- Comprehensive land use planning and building regulation
- Water supply and delivery
- Transportation and other infrastructure
- Conservation of natural lands and marine systems - natural systems resiliency
- Beaches and Beach Management
- Extreme events: emergency preparedness and response





# *Federal Roles for Climate Adaptation*

- Partnering with states in ecosystem restoration projects;
- National Catastrophic Fund;
- Applied research and technical assistance;
- Coastal Zone Management program support;
- Coordination of public land management objectives with states to improve ecosystem resiliency





## *Contact Us*

- [www.dep.state.fl.us/climatechange](http://www.dep.state.fl.us/climatechange)
  - Sign up for free “listserv”
- My e-mail:  
[stephen.adams@dep.state.fl.us](mailto:stephen.adams@dep.state.fl.us)

