



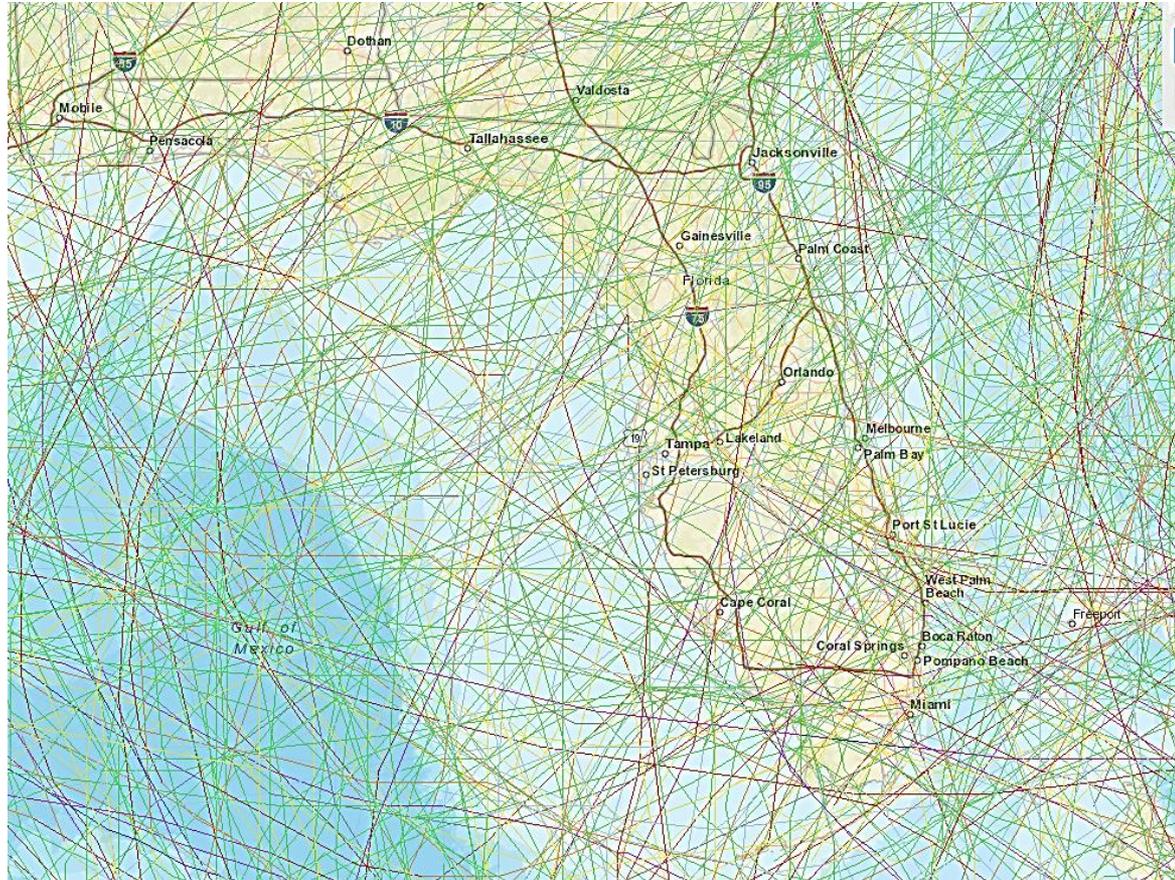
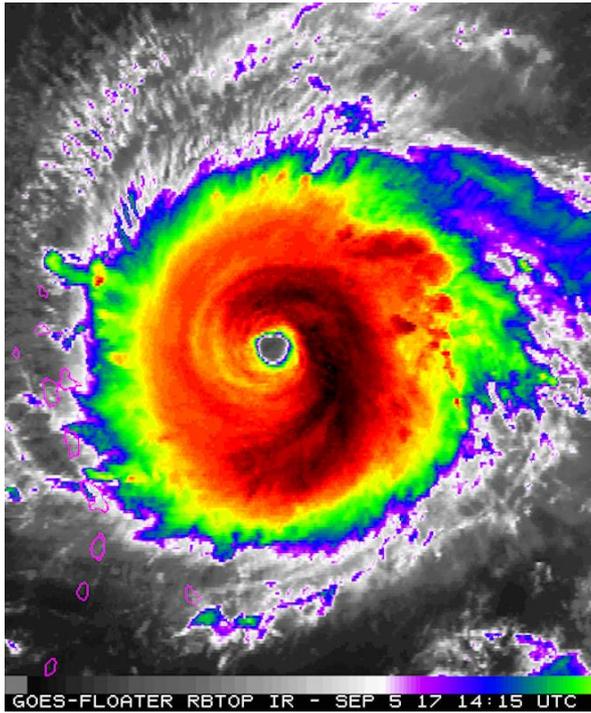
Planning and Re-planning Vulnerable Areas

Dan Pennington, Bureau of Community Planning and Growth

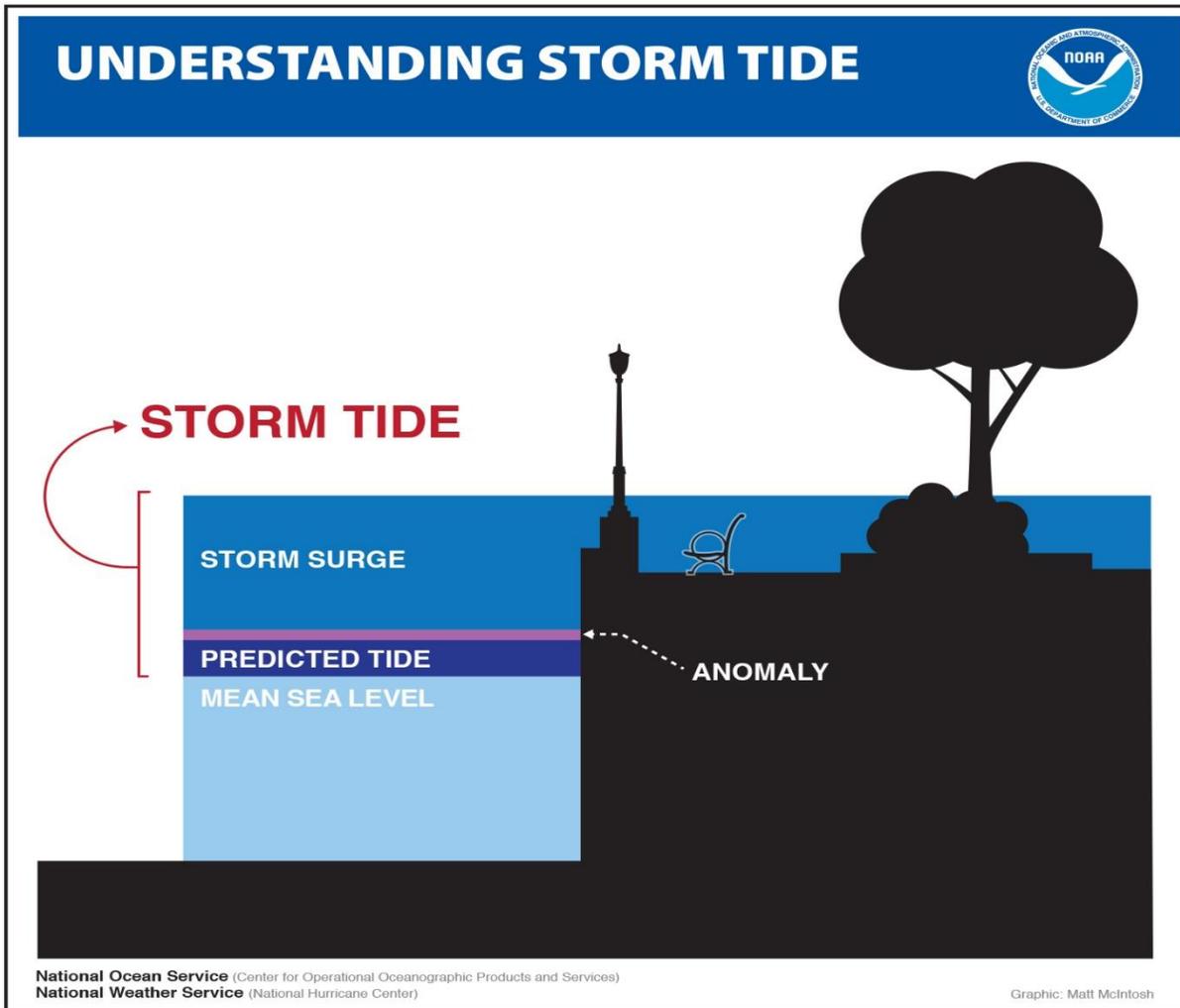
September 13, 2018



All of Florida is Vulnerable



Vulnerability Is Increasing



DEO's Involvement

The Florida Department of Economic Opportunity (DEO) offers support through:

- The Community Development Block Grant - Disaster Recovery Program (CDBG-DR). The state of Florida has been allocated federal funding to support disaster recovery.
- Chapter 163, F.S., “Peril of Flood” community planning requirements. These 2015 legislative requirements direct communities that have a Coastal Management Element as a part of their comprehensive plan to develop a redevelopment component with principles to eliminate inappropriate and unsafe development in the coastal areas, when opportunities arise.

Peril of Flood Planning

Chapter 163, F.S., directs communities to produce a redevelopment component that outlines the principles that must be used to eliminate inappropriate and unsafe development in the coastal areas - when opportunities arise.

Operative phrase being, “when opportunities arise.”

Peril of Flood Planning (continued)

Data and Analysis Requirements

1. Include development and redevelopment principles, strategies and engineering solutions that reduce the flood risk in coastal areas that are the results of:

- High-tide events
- Storm surge
- Flash floods
- Stormwater runoff
- Related impacts of sea-level rise

} Data Driven
Know where
your
vulnerabilities
are located.

Peril of Flood Planning (continued)

With data and analysis in-hand:

2. Encourage the use of best practices development and redevelopment principles, strategies and engineering solutions that will result in the removal of coastal real property from flood zone designations established by the Federal Emergency Management Agency.

3. Identify site development techniques and best practices that may reduce losses due to flooding and claims made under flood insurance policies issued in this state.

Projects to Address Floodable Areas

Beyond “Peril of Flood” planning, communities may have an interest in the design of flood management projects that:

- Remove real property from flood zones hazard.
- Reduce losses due to flooding under flood insurance policies.
- Achieve economically and environmentally sound use of the floodable space(s).

Projects to Address Floodable Areas

Differing communities require different flood management projects and approaches.

- Carefully planned
- Incremental

City of Port Orange Buyout

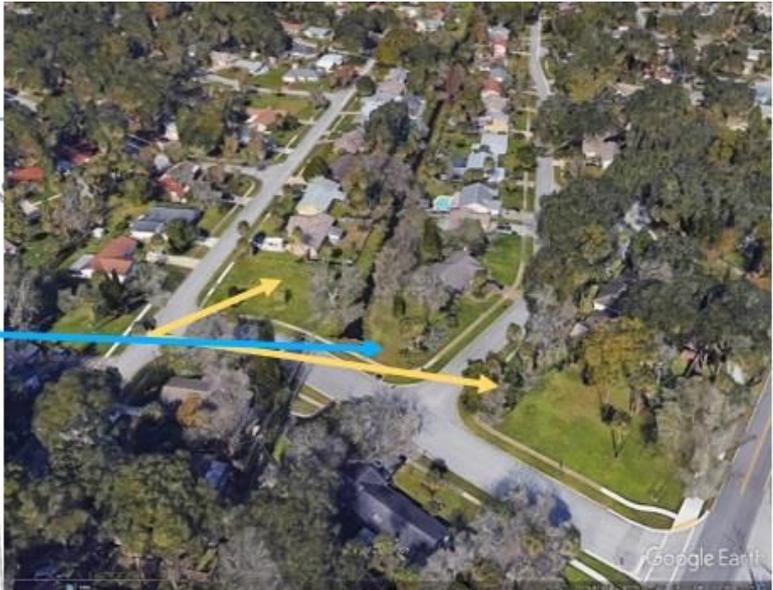
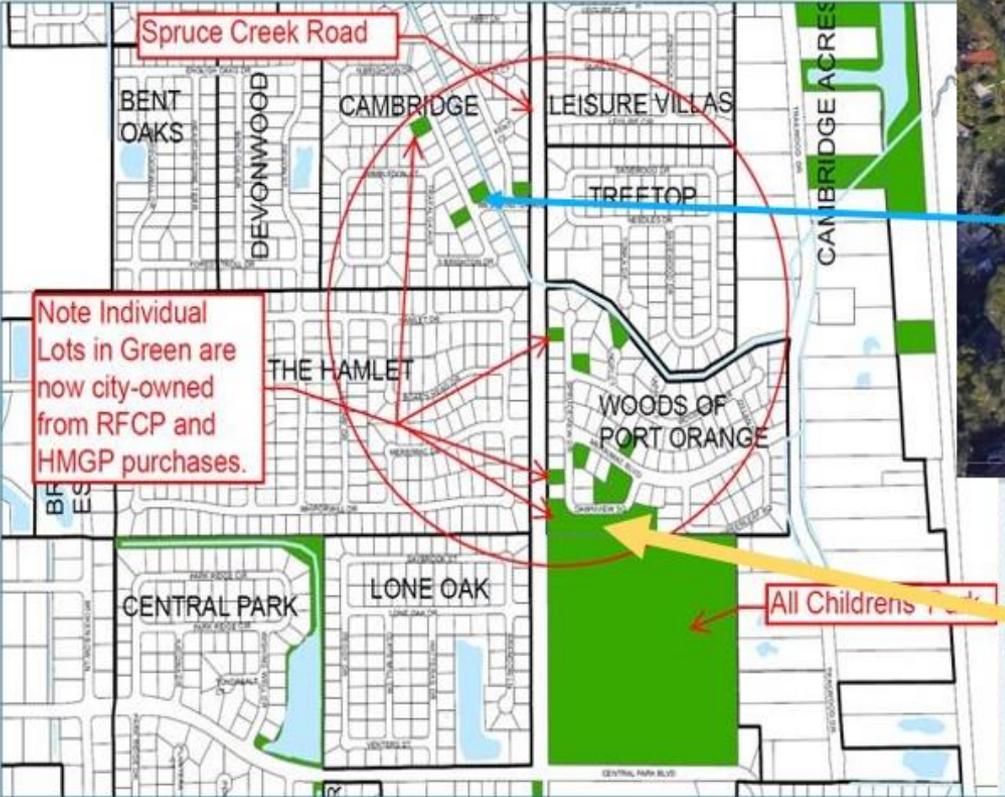


Figure 1: Various properties that were purchased

City of Port Orange Buyout (continued)

Regional Stormwater Facility
All Children's Park

Legend

Storm Tide Zone

Storm Category

- 1 - (75-95 mph Winds)
- 2 - (96-110 mph Winds)
- 3 - (111-130 mph Winds)
- 4 - (131-155 mph Winds)
- 5 - (Above 155 mph Winds)

■ WaterFeature

SOURCE: SRES - Statewide Regional Evacuation Study



Major stormwater facility receives water from surrounding neighborhoods, treats water and discharges into the Halifax River.



Data source: Port Orange and Florida DEM

Tallahassee



Capital Cascades Park and Trail

Cascade Park
DOWNTOWN TALLAHASSEE

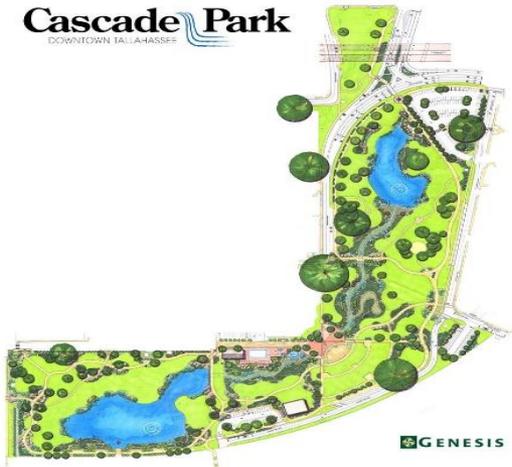


Photo source: City of Tallahassee



St. Augustine Branch of Lake Munson Drainage



Tallahassee (Continued)

Frenchtown, Carter-Howell-Strong (C-H-S) Project



Figure 1: Street flooding before the development of the C-H-S stormwater facility and park.

Photo sources: City of Tallahassee, Google Earth

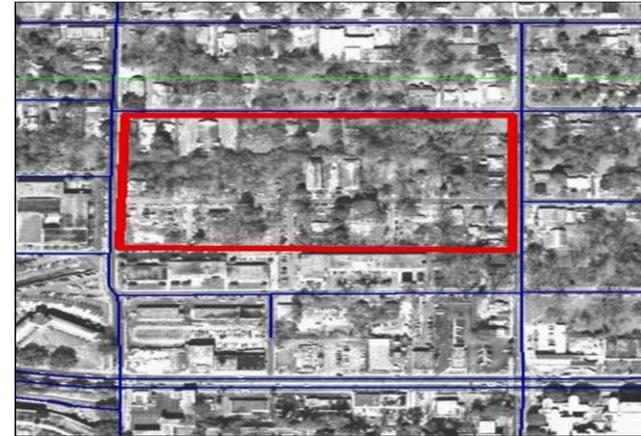


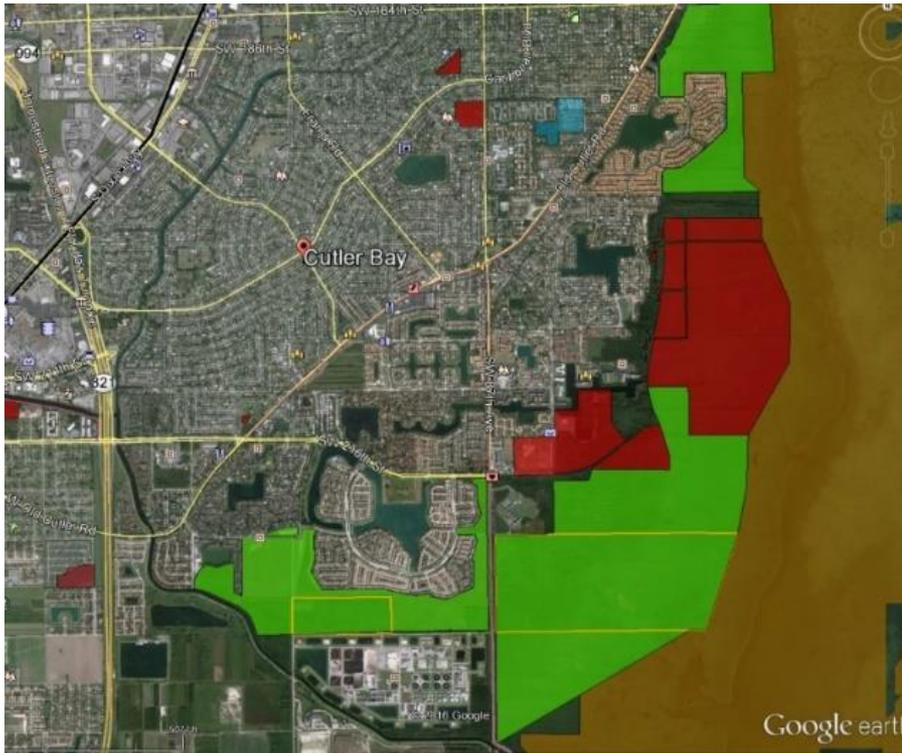
Figure 2: Area before buyouts



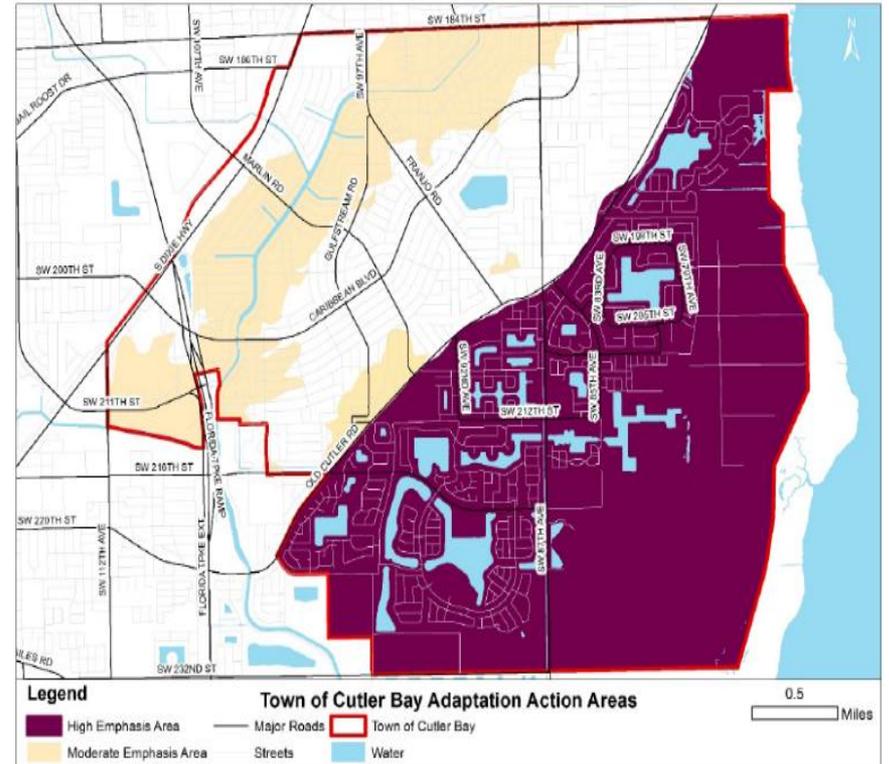
Figure 3: Within the red box is the site of the original floodable area where several repetitive-loss property buyouts occurred.

Town of Cutler Bay

Adaptation Action Areas (AAAs)



Cutler Bay's coastal facing properties form a natural barrier to the impacts of storms, surge and rising sea water.



Cutler Bay's identified AAAs subdivided into High and Moderate emphasis areas.

Data source: Town of Cutler Bay Comprehensive Plan, Google Earth

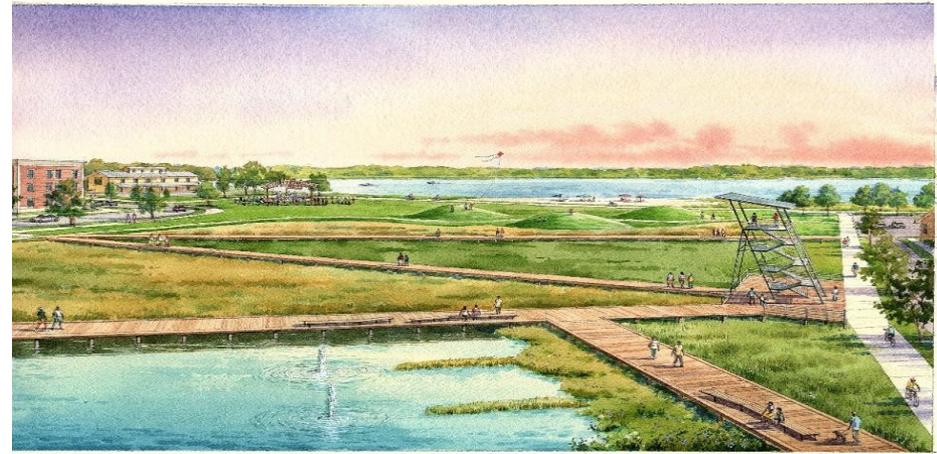
City of Clermont



Victory Pointe Wetland Park, Promenade and Waterfront



The Promenade along the waterfront



The Wetland Park

Data source: City of Clermont

Questions



Adaptation Planning — Planning for Coastal Flooding and Sea-Level Rise:
<http://www.floridajobs.org/community-planning-and-development/programs/community-planning-table-of-contents/adaptation-planning>



Thank You.

If you have questions or comments about this presentation or need to discuss a future project, please contact Dan Pennington.



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