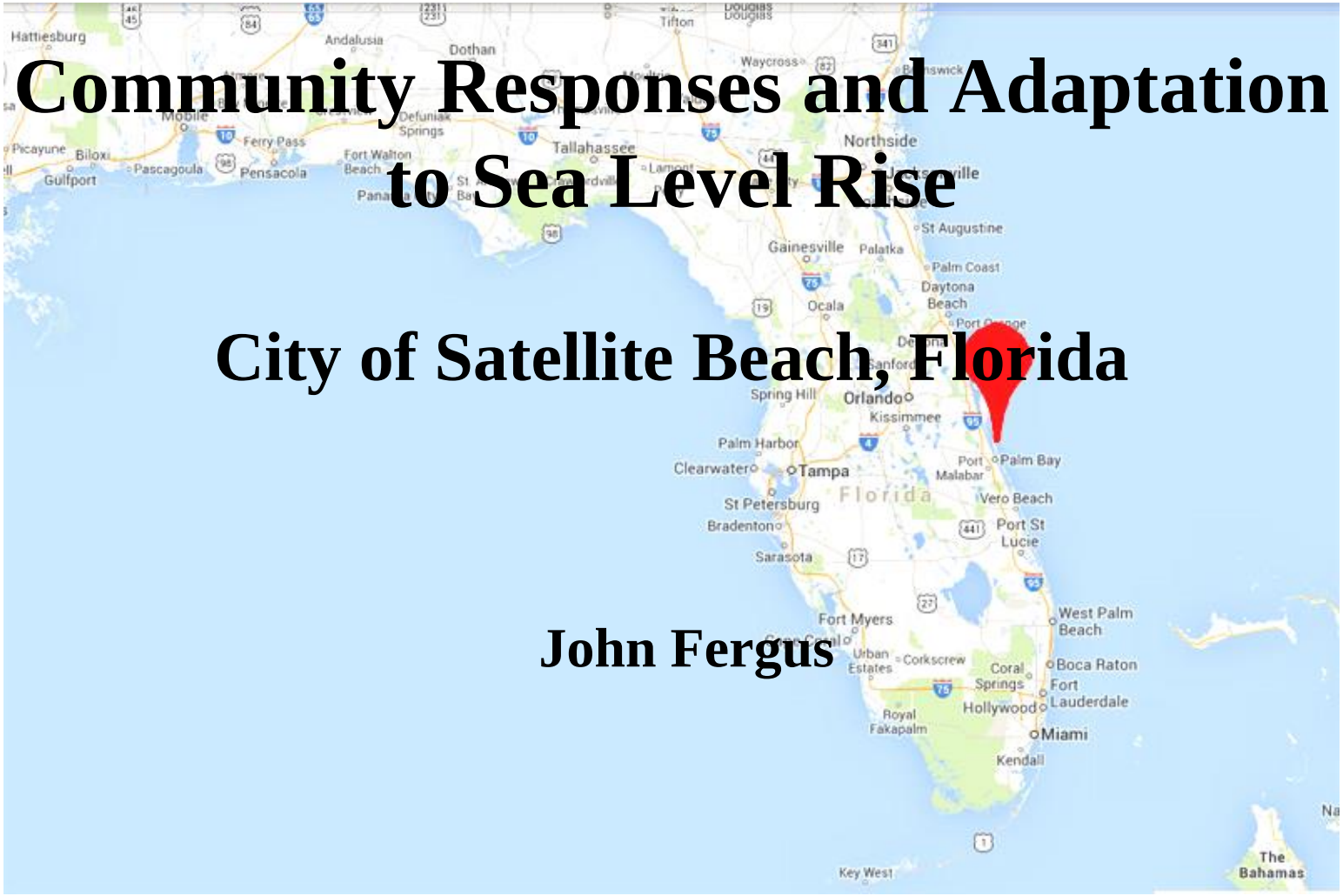
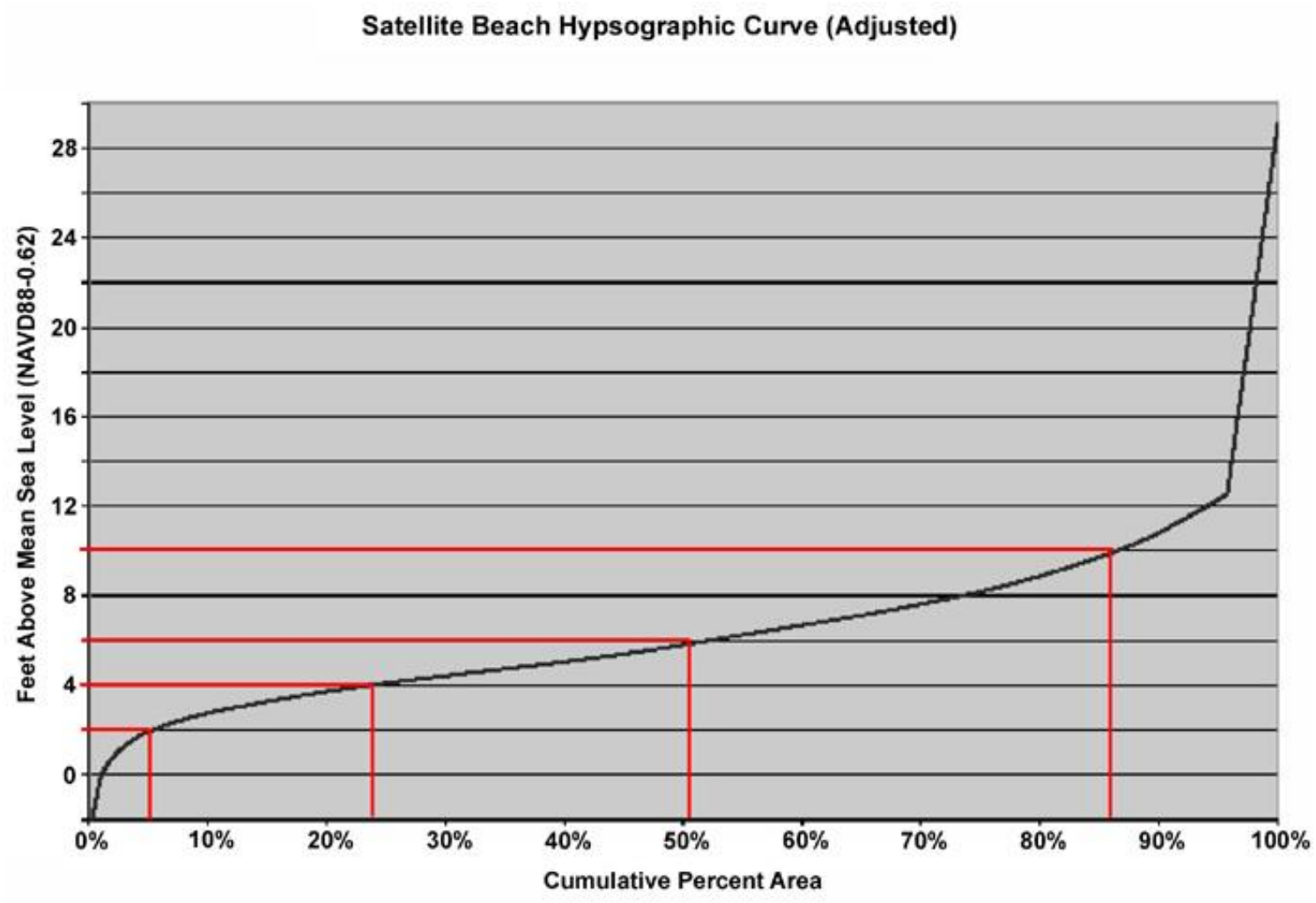
Community Responses and Adaptation to Sea Level Rise

City of Satellite Beach, Florida

John Fergus



Satellite Beach, Florida



Satellite Beach Elevation Distribution

Chronology

2009: April: IRL-NEP applies for USEPA Climate Ready Estuary grant
May: USEPA awards grant to IRL-NEP
June: Sea level rise (SLR) Study begins
2010: July: SLR Study complete,
July: CPAB SLR recommendations & report to City Council
2011: No SLR activity
2012: January: CPAB revisits SLR in a public hearing
February: CPAB adjusts SLR language for Comprehensive Plan
September: Council declines to act on SLR
November: New Council sends SLR back to CPAB
2013: January: CPAB reviews, does not change, SLR language
March: Council sends SLR language to state
April: State commends SLR language
August: Council adopts SLR language in Comprehensive Plan
September: City teams with regional planning council

Resources

Florida Institute of Technology Virtual Library

- **http://research.fit.edu/sealevelriselibrary/**
- Over 1,000 documents

Satellite Beach SLR Journal Article

- Virtual Library>US: Florida>East Coast Mainland>
  Parkinson & McCue…
- Based upon the technical report provided to City Council

Coastal Management/Conservation Element

Objective 1.3
The City shall continue to limit use of public funds and discourage use of funds by other levels of government that subsidize new, private development or redevelopment in the Coastal High Hazard Area.

Policy 1.3.2 - The City shall coordinate with service providers to replace and mitigate damaged infrastructure within the Coastal High Hazard Area and other parts of the Adaptation Action Area consistent with other policies of the Comprehensive Plan. (Refer to Policy 1.12A.2 in which the Adaptation Area is established.)

Objective 1.4A
The City shall strive to reduce the exposure of human life and public and private property to natural hazards while reducing the cost of flood insurance.

Policy 1.4A.1 - The City shall initiate a public process to identify Adaptation Action Areas (AAAs) in accordance with Sections 163.3164(1) and 163.3177(6)(g)10 Florida Statutes. The purpose of the AAAs is to increase grant and other funding opportunities and identify creative solutions to achieve the following goals:

- Protect the health, safety and welfare of residents,
- Prevent damage to public and private property, and
- Reduce National Flood Insurance Program premiums to property owners.

Policy 1.4C.3 - The City shall encourage population concentrations away from known or predicted coastal high hazard areas consistent with the goals, objectives and policies of the Future Land Use Element in the Satellite Beach Comprehensive Plan. This policy is not intended to prohibit or discourage maintenance or replacement of existing development within the CHHA.

Objective 1.12A
Development and redevelopment within the City shall be permitted only when consistent with sound planning practices that shall protect life and property from the effects of coastal erosion, flooding, sea level rise, or damage to environmental systems.

Policy 1.12A.1 – The City of Satellite Beach designates the Coastal High Hazard Area as “the area defined by the SLOSH model to be inundated from a Category 1 Hurricane”.

Policy 1.12A.2 – The City of Satellite Beach designates the Adaptation Action Area (AAA) as that area which includes the CHHA and other areas of the City as may be identified by the City Council in the future as being subject to coastal erosion, flooding, sea level rise, or damage to environmental systems.