

INDIAN RIVER SHORES VULNERABILITY ASSESSMENT

Presented By:







Reasons for a Vulnerability Assessment



Initial Collection Stages



Proposed Methodology



Stakeholder Input





Reasons for a Vulnerability Assessment

1		
	\checkmark	-1
	\checkmark	-1
	\checkmark	-1
	\checkmark	- 1

Initial Collection Stages



Proposed Methodology



Stakeholder Input



Assesses the extent to which a community is vulnerable to adverse impacts from flooding resulting from:

1. increases in frequency and duration of rainfall events,

Assesses the extent to which a community is vulnerable to adverse impacts from flooding resulting from:

- 1. increases in frequency and duration of rainfall events,
- 2. storm surge from more frequent and severe weather systems,

Assesses the extent to which a community is vulnerable to adverse impacts from flooding resulting from:

- 1. increases in frequency and duration of rainfall events,
- 2. storm surge from more frequent and severe weather systems, and
- 3. sea level rise.

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- 3. sea level rise.

Such adverse impacts pose economic, social, environmental, and public health and safety challenges to the state. To most effectively address these challenges

At Risk vs. Resilient



The

Daytona Beach – Hurricane Nicole

Volusia County – Hurricane Nicole

I

The New York Times

Among the Ruins of Mexico Beach Stands One House, Built 'for the Big One'

Mexico Beach – Hurricane Michael

Resilient

Cape Coral – Hurricane Ian Babcock Ranch – Lee County





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Why do a Vulnerability Assessment? Florida Statute 380.093 Funding Grants provided for:

- Resilience Planning and Data Collection
- Vulnerability Assessments
- Studies to reduce the impact of flooding and sea level rise

Questions for you to keep in mind





What Vulnerabilities does Indian River Shores face? What projects can you think of that would make Indian River Shores more resilient?





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Flood scenario-related data



N Data

Topographic







Topographic

3D LiDAR Elevation Point Cloud







Topographic

3D LiDAR Elevation Point Cloud



N Data

Scenario-Related Data





Scenario-Related Data





Scenario-Related Data













Critical Assets

Transportation assets and evacuation routes



Critical infrastructure

Critical community and emergency facilities



Natural, cultural, and historical resources













N Data











Will certain critical assets be impacted by flood?

2 Do we know how other municipalities we rely on are operating?

How will emergency response be affected?





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		Transportation / evacuation	Critical Infrastructure	Critical Facilities	Natural/Cultural Resources
Scenarios	Storm Surge				
	High Tide				
	Sea Level Rise (SLR)				
	Storm Surge + SLR				
	High Tide + SLR				





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What Vulnerabilities does Indian River Shores face?





What projects can you think of that would make Indian River Shores more resilient?







