RESILIENT NEW SMYRNA BEACH

Public Workshop

Agenda

6:00	Welcome, Introductions and Ice Breakers
	Resilient New Smyrna Beach Presentation
6:30	Community Engagement Activities
7:30	Next Steps & Public Survey
7:45	Closing Remarks and Thoughts
8:00	Adjourn

"What brought you to the workshop tonight?"

Resilient New Smyrna Beach

What is Resilience?

State and Federal Perspective

FDEP Grant Overview

What is a Vulnerability Analysis?

Tying It All Together

Go to **www.menti.com** and use the code **87 19 46**

What does Resilience mean to you?

Mentimeter

0

Definition

RESILIENCY:

The capacity of individuals, communities, institutions, businesses, and systems within a region to plan, sustain, adapt, recover, improve and grow collaboratively–regardless what kind of **chronic stresses** and **acute shocks** they experience – through specific actions and implementation strategies geared to address specific vulnerabilities.

(adapted from 100 Resilient Cities for the Regional Resiliency Action Plan)

Acute Shock –Sudden, single disaster events that threaten a community.

What are acute shocks?

Earthquake
Wildfires
Flooding
Sandstorms
Extreme cold
Hazardous materials accident
Severe storms and extreme rainfall
Terrorism
Disease outbreak
Riot/civil unrest
Infrastructure or building failure
Heat wave

100 RESILIENT CITIES

Chronic Stressor –Reoccurring pressures that weaken the fabric of the community.

What are chronic stresses?

Water Scarcity
Lack of affordable housing
Poor air quality
High unemployment
Homelessness
Changing demographics
Lack of social cohesion
Poverty/inequity
Aging Infrastructure
Shifting macroeconomic trends
Crime & violence

Federal Perspective

- FAST- Fixing America's Surface Transportation Act- 2015 (USDOT)
  - "…improve the resiliency and reliability of the transportation system overall…"
  - "…improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation…"
  - "…reduce the vulnerability of the existing transportation infrastructure to natural disasters'…"
  - -
- Disaster recovery funds (USHUD)
  - CDBG-DR, HUD requires an "Action Plan" – "… sound, sustainable long-term recovery planning informed by a post-disaster evaluation of hazard risk, especially construction standards and land-use decisions that reflect responsible floodplain and wetland management and take into account continued sea level rise…"

State Perspective

HB 7207 Adaptation Action Areas (2011)

Adaptation Action Areas

Section 163.3164, F.S.- (1) "Adaptation action area" or "adaptation area" means a designation in the **coastal management element of a local government's comprehensive plan** which identifies one or more areas that **experience coastal flooding due to extreme high tides and storm surge,** and that are vulnerable to the related impacts of **rising sea levels** for the purpose of **prioritizing funding for infrastructure needs and adaptation planning**.

(Florida Sea Grant photo by Thomas Ruppert)

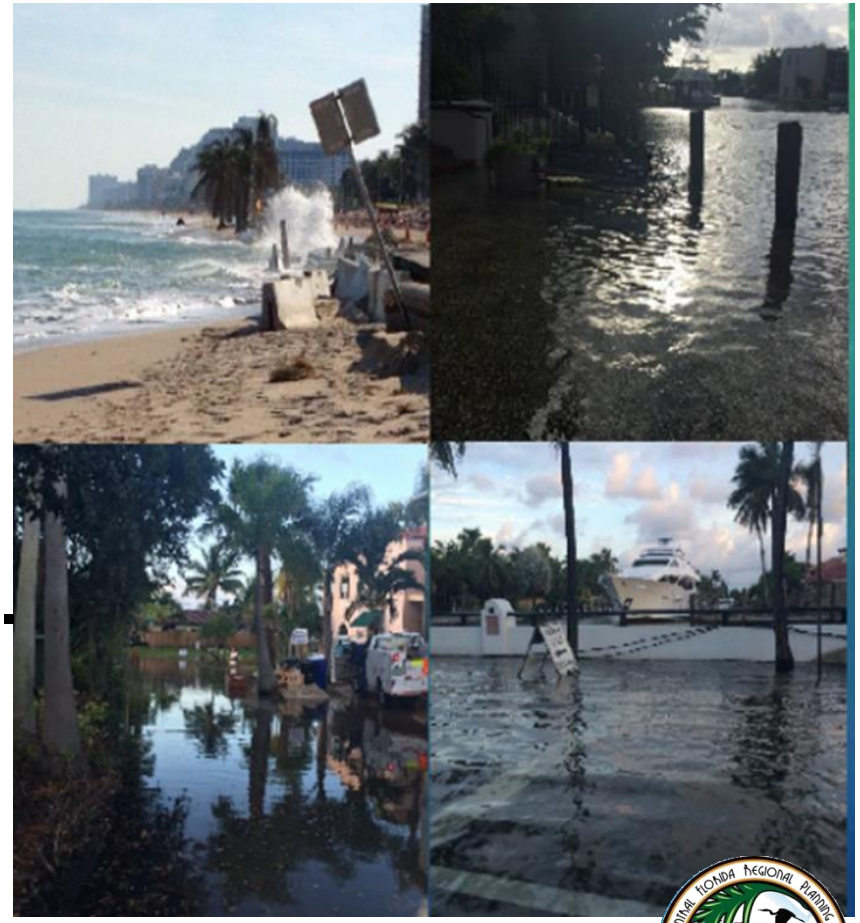
Peril of Flood

State Perspective

SB 1094 Peril of Flood (SB 2015)

Section 163.3178, F.S.

- **Development and redevelopment principles** and strategies, that reduce the flood risk in coastal areas from **high-tide events, storm surge, flash floods, stormwater runoff, and the related impacts of sea-level rise.**
- Best practices
- Site development techniques



Importance of Resiliency to New Smyrna Beach

FDEP Resilience Grant

Project Goals:

- Conduct Vulnerability Assessment
- Engage the community
- Identify strategies to increase resilience in New Smyrna Beach
- Assess local plans to implement resilience

Go to **www.menti.com** and use the code **87 19 46**

What are vulnerabilities to New Smyrna Beach?

Mentimeter

0

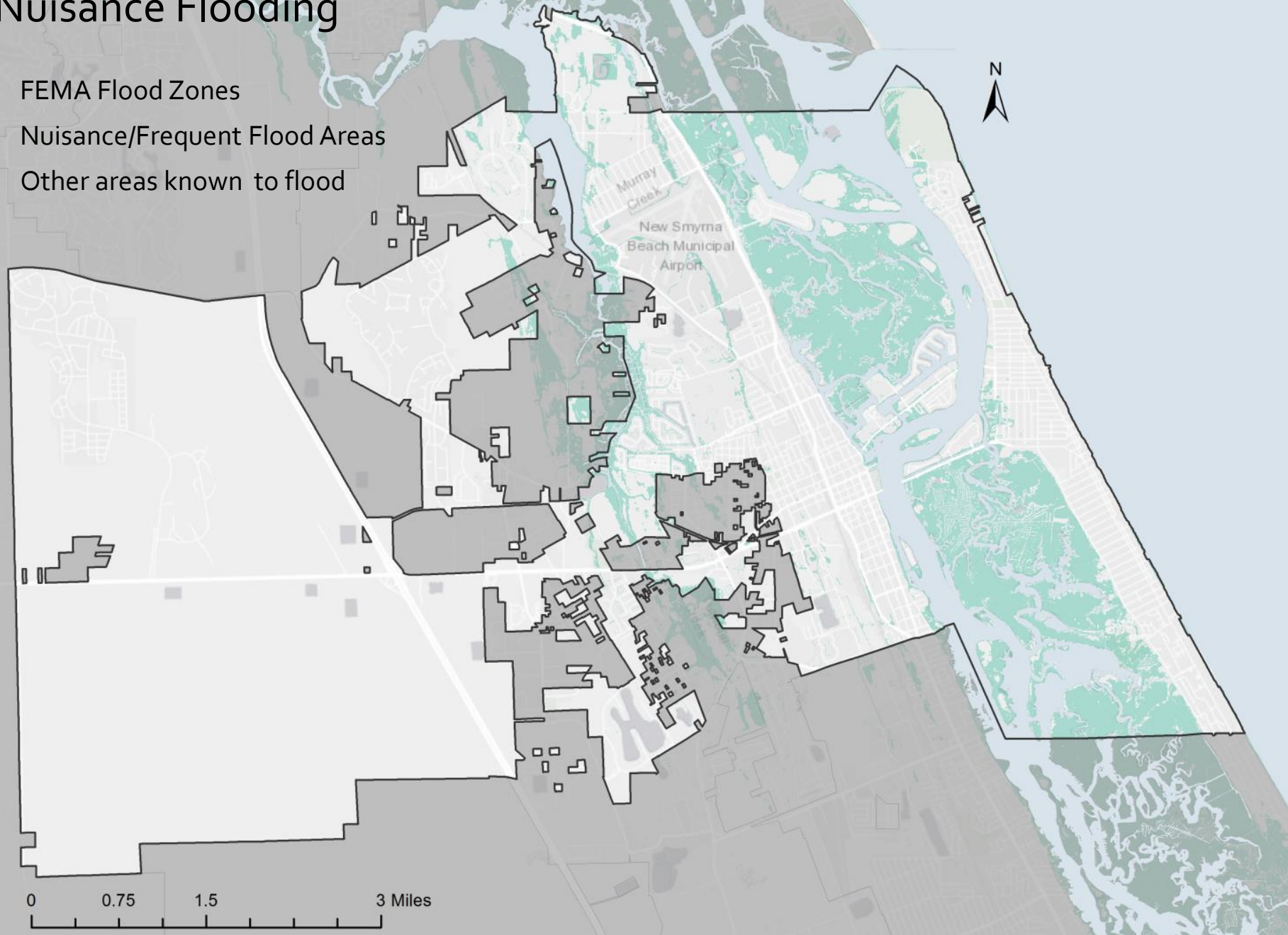
Vulnerability Assessment

The process of identifying vulnerabilities in the community and its network of infrastructure and increase awareness and understanding of the threats to the community and plan appropriately.

- Flood Areas
- Storm Surge
- Sea Level Rise

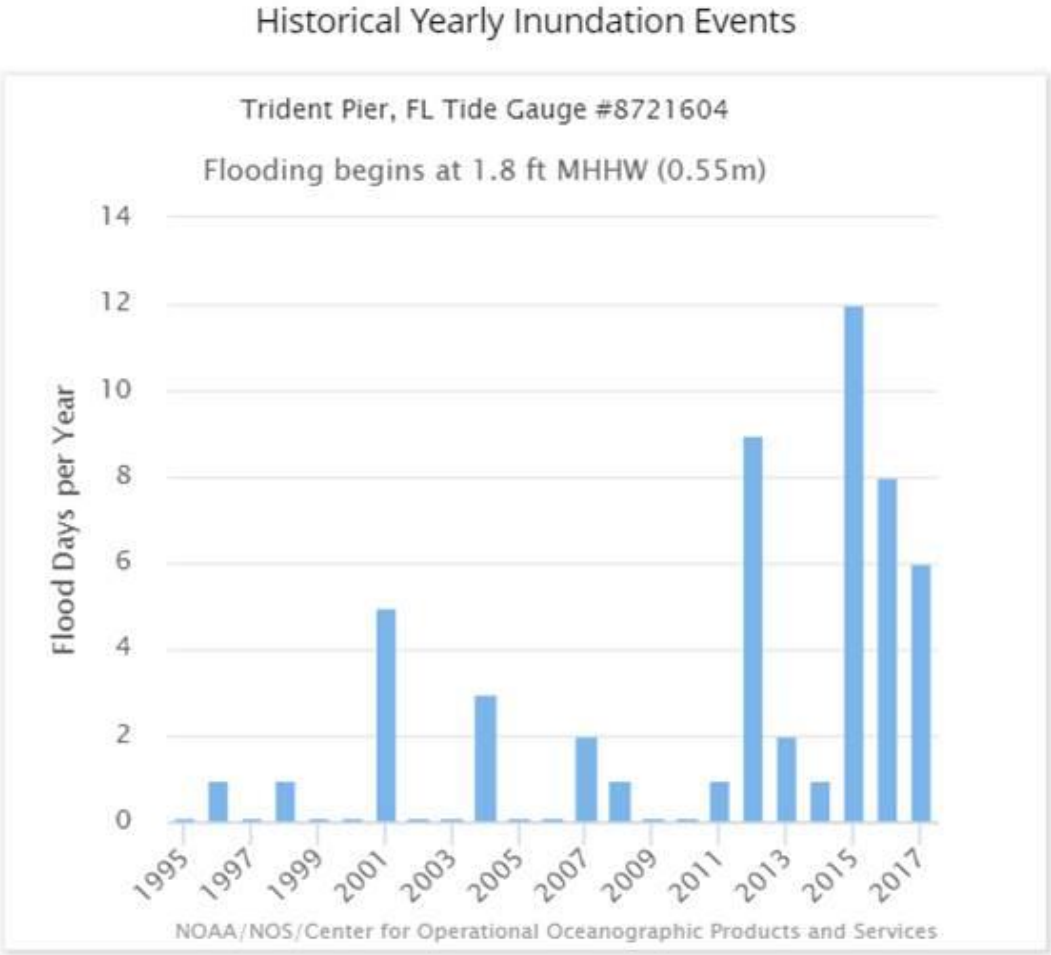
Nuisance Flooding

- FEMA Flood Zones
- Nuisance/Frequent Flood Areas
- Other areas known to flood

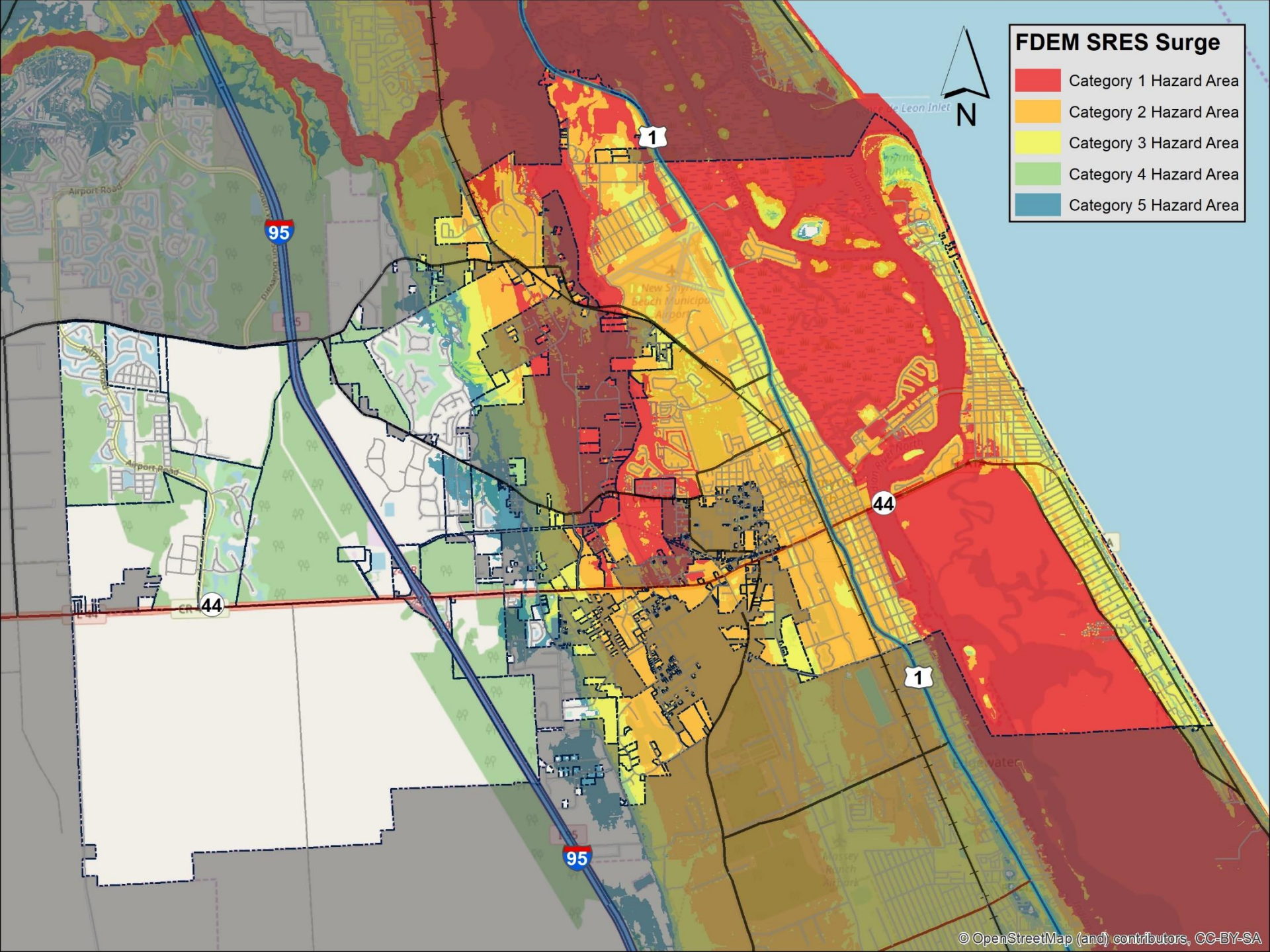


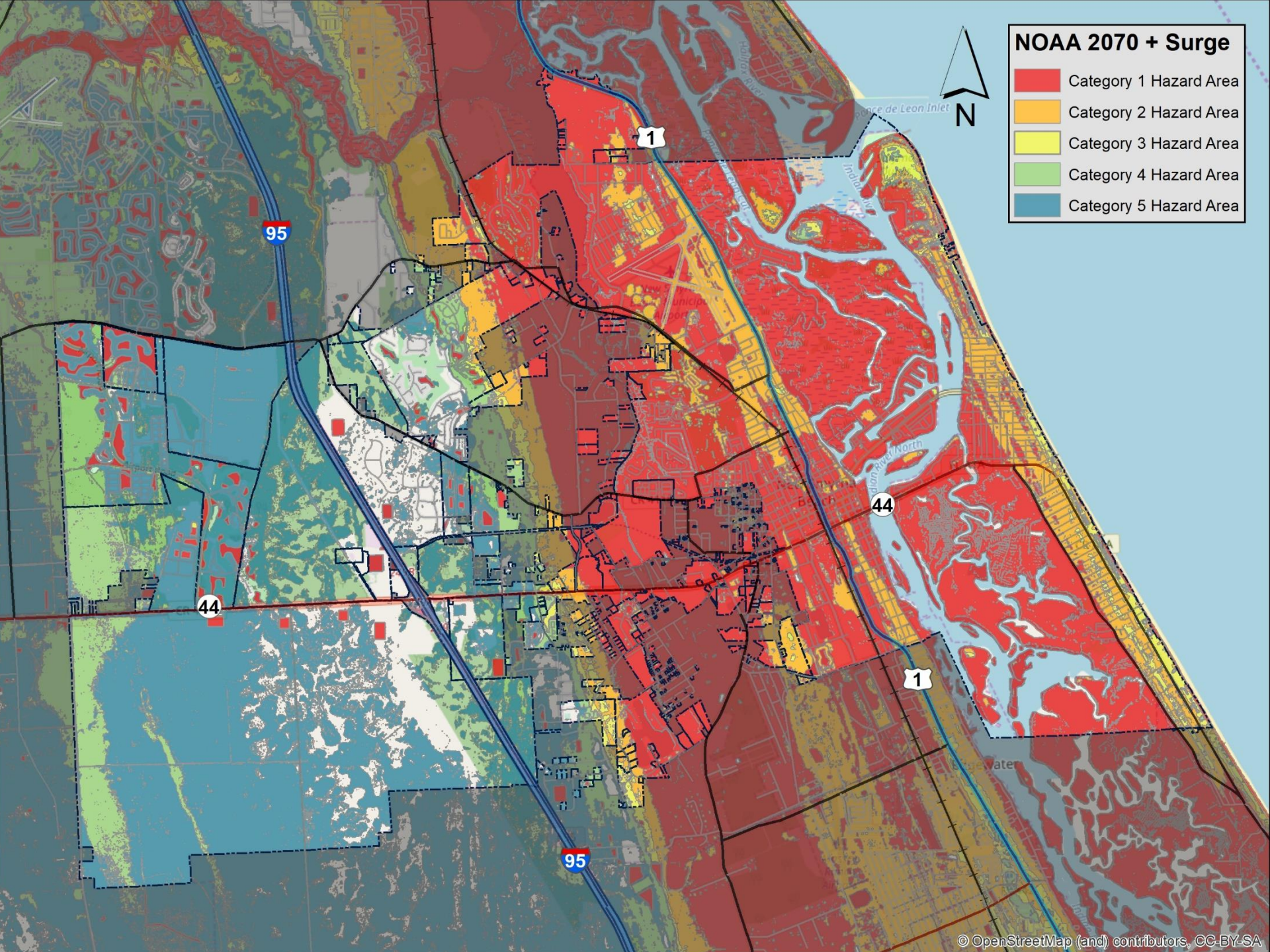
This map is intended to be used for planning purposes only and is not to be construed as a legal document. The ECFRPC and associated agencies have taken reasonable efforts to ensure the accuracy of this map.

High Tide Flooding



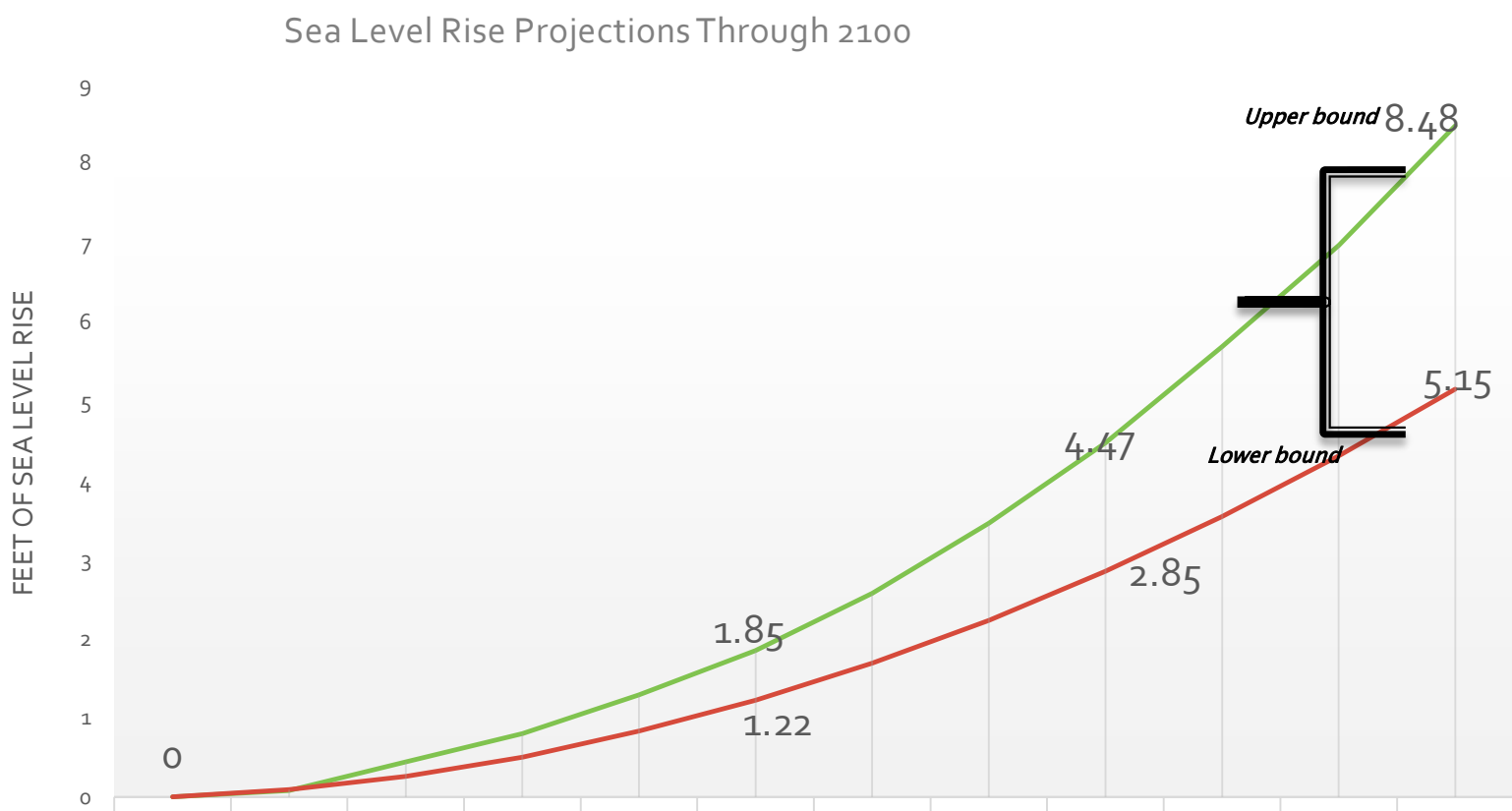
Data from Brevard County shows a spike of flooding events, especially in the last three years.


FDEM SRES Surge
Category 1 Hazard Area
Category 2 Hazard Area
Category 3 Hazard Area
Category 4 Hazard Area
Category 5 Hazard Area
N
95
1
44
Airport Road
© OpenStreetMap (and) contributors, CC-BY-SA


NOAA 2070 + Surge
Category 1 Hazard Area
Category 2 Hazard Area
Category 3 Hazard Area
Category 4 Hazard Area
Category 5 Hazard Area
N
95
1
44
44
1
95
© OpenStreetMap (and) contributors, CC-BY-SA

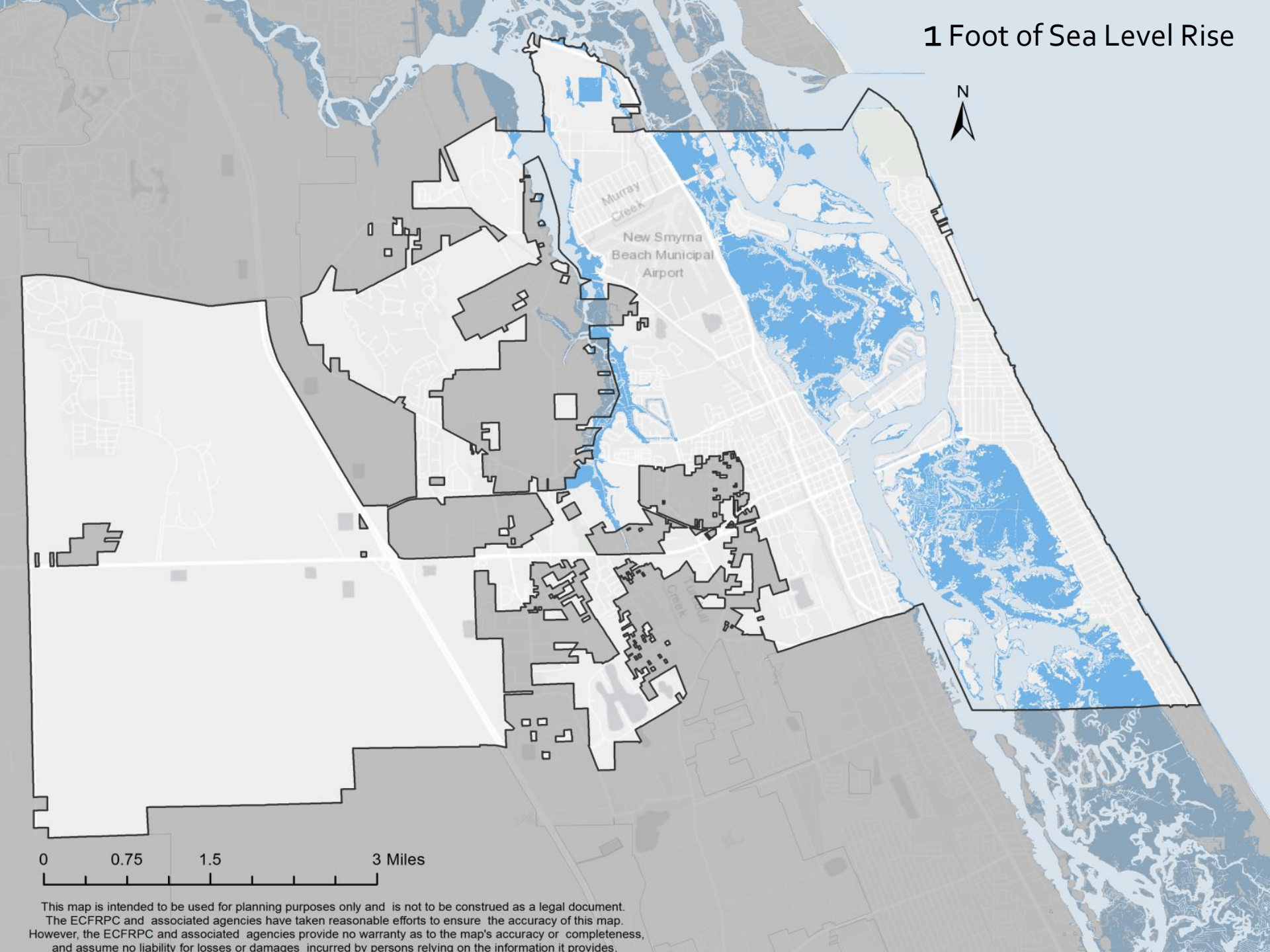
ECF Regional Resiliency Action Plan Recommended Bounds for Planning for Sea Level Rise

Daytona Beach Shores Tidal Gauge

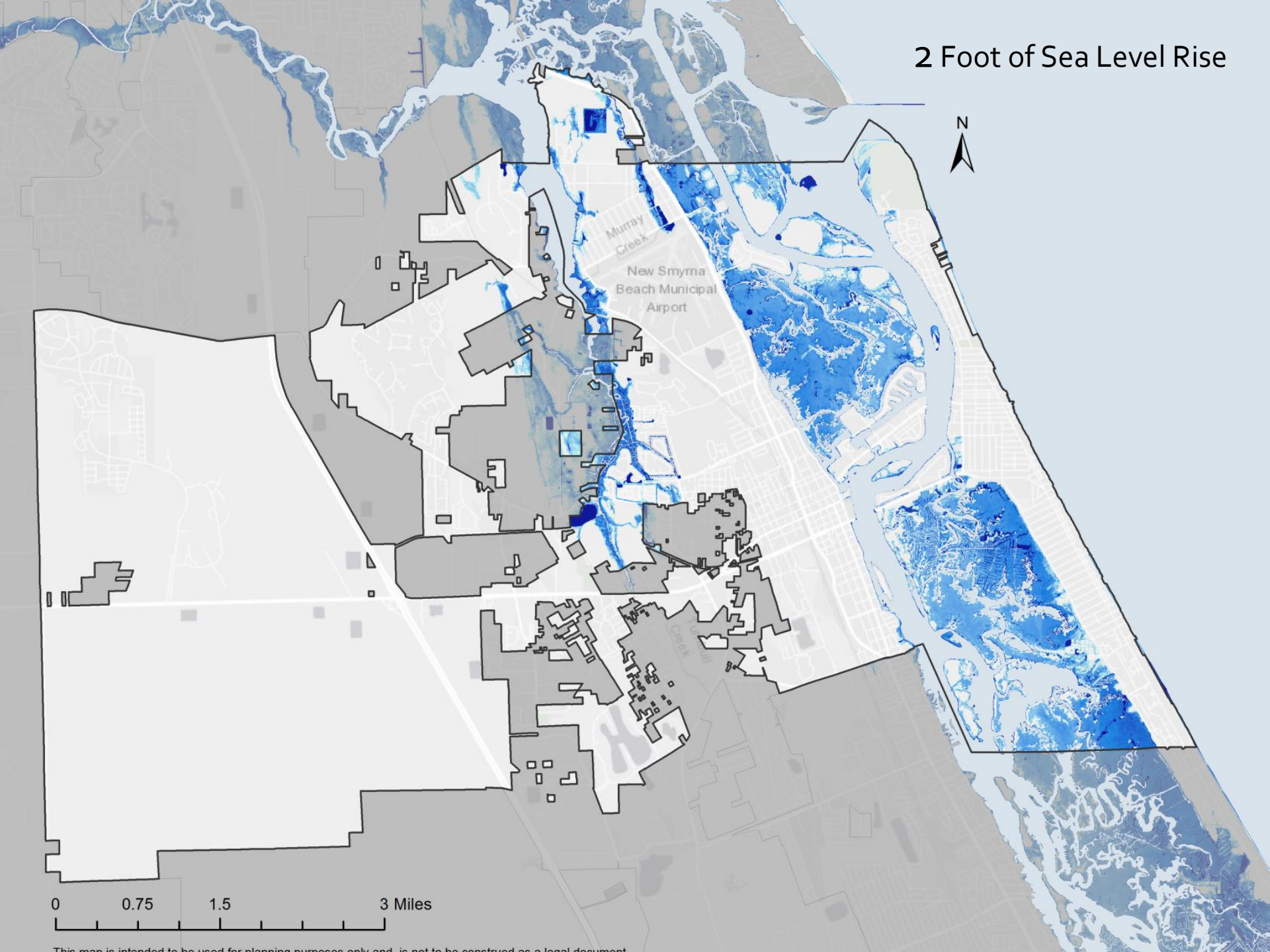


	1992	2000	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100
NOAA 2017 High	0	0.08	0.44	0.8	1.29	1.85	2.57	3.46	4.47	5.69	6.97	8.48
USACE 2013 High	0	0.09	0.26	0.5	0.83	1.22	1.69	2.23	2.85	3.54	4.31	5.15

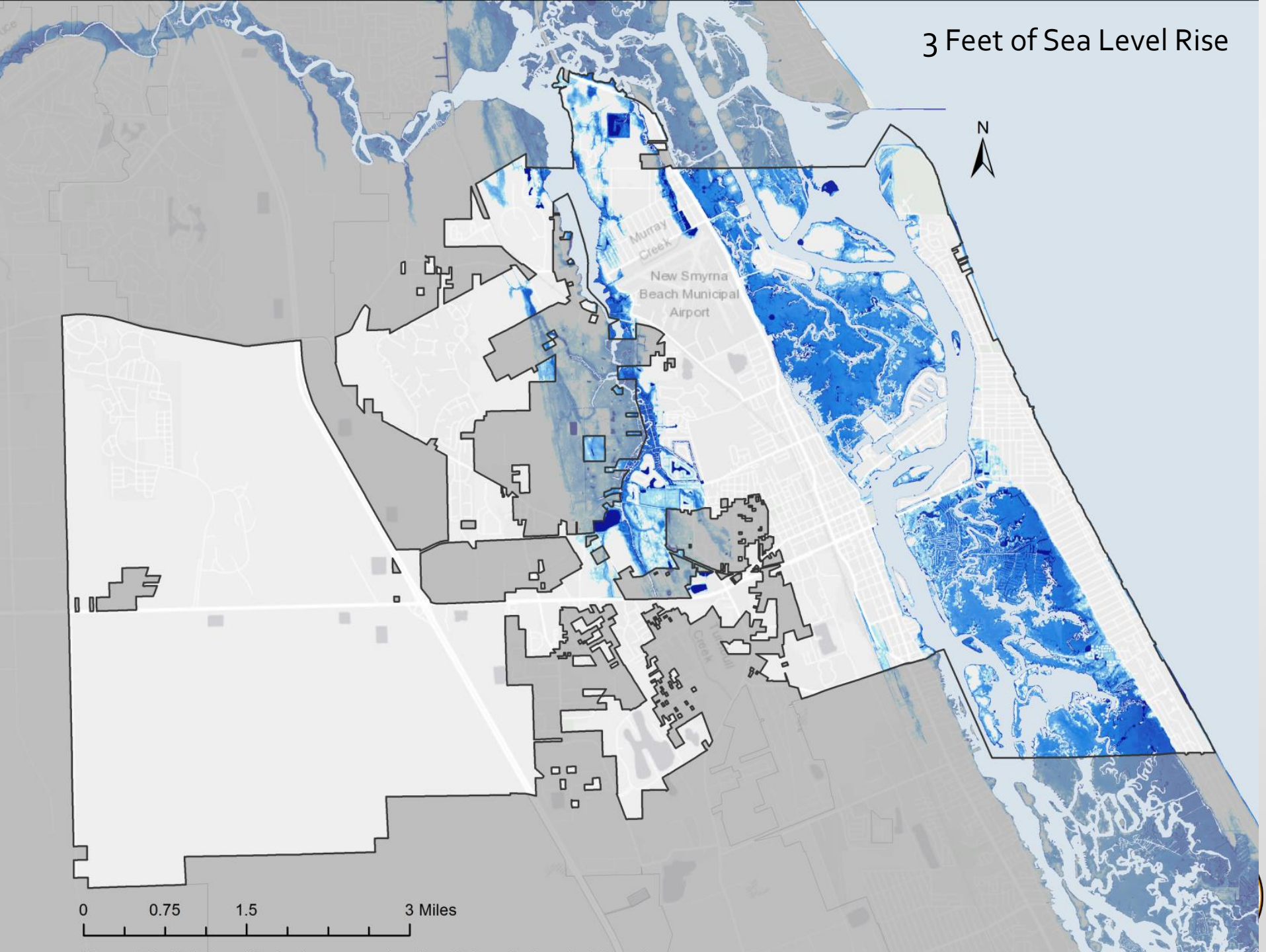
1 Foot of Sea Level Rise

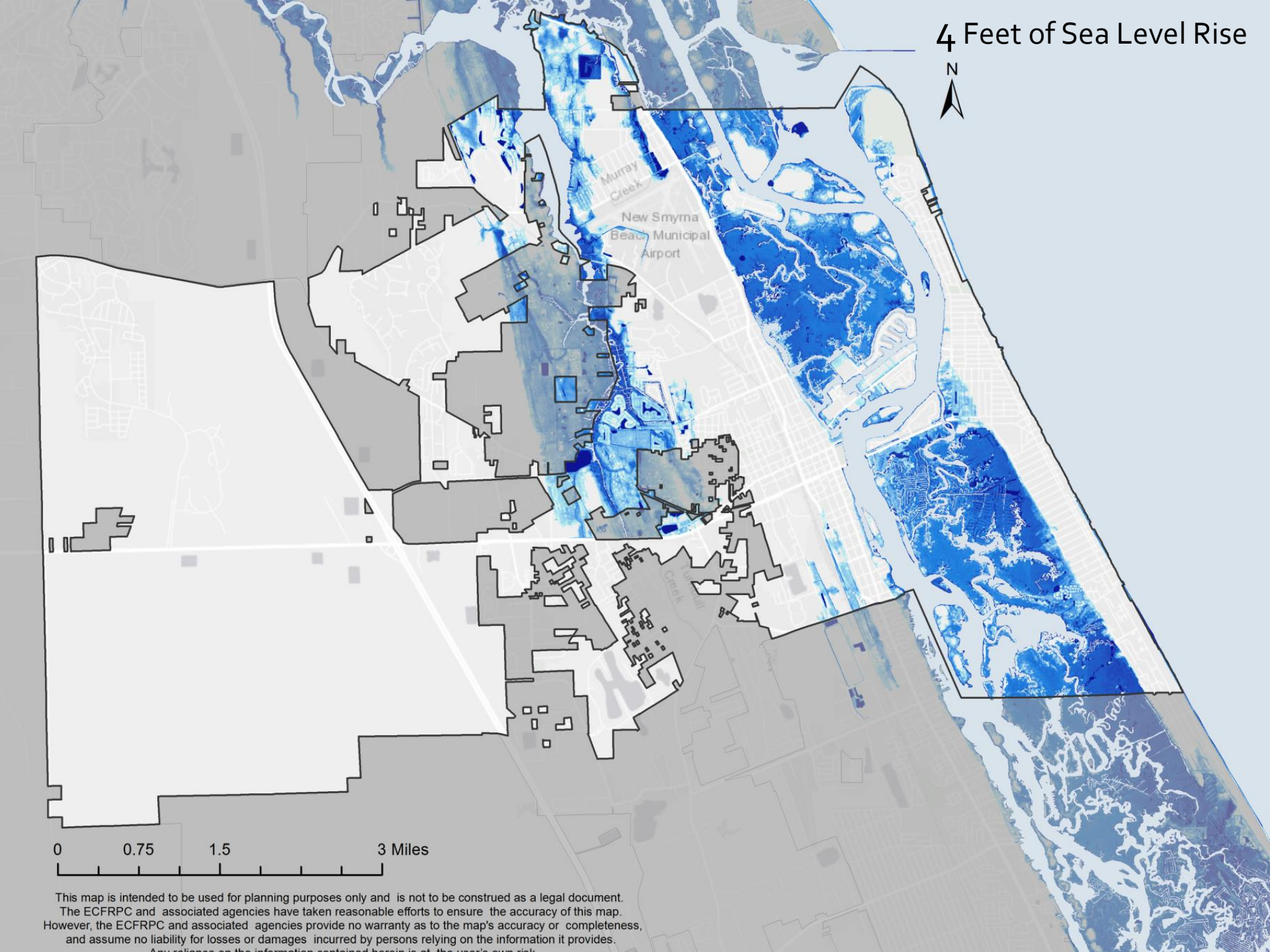


This map is intended to be used for planning purposes only and is not to be construed as a legal document. The ECFRPC and associated agencies have taken reasonable efforts to ensure the accuracy of this map. However, the ECFRPC and associated agencies provide no warranty as to the map's accuracy or completeness, and assume no liability for losses or damages incurred by persons relying on the information it provides.

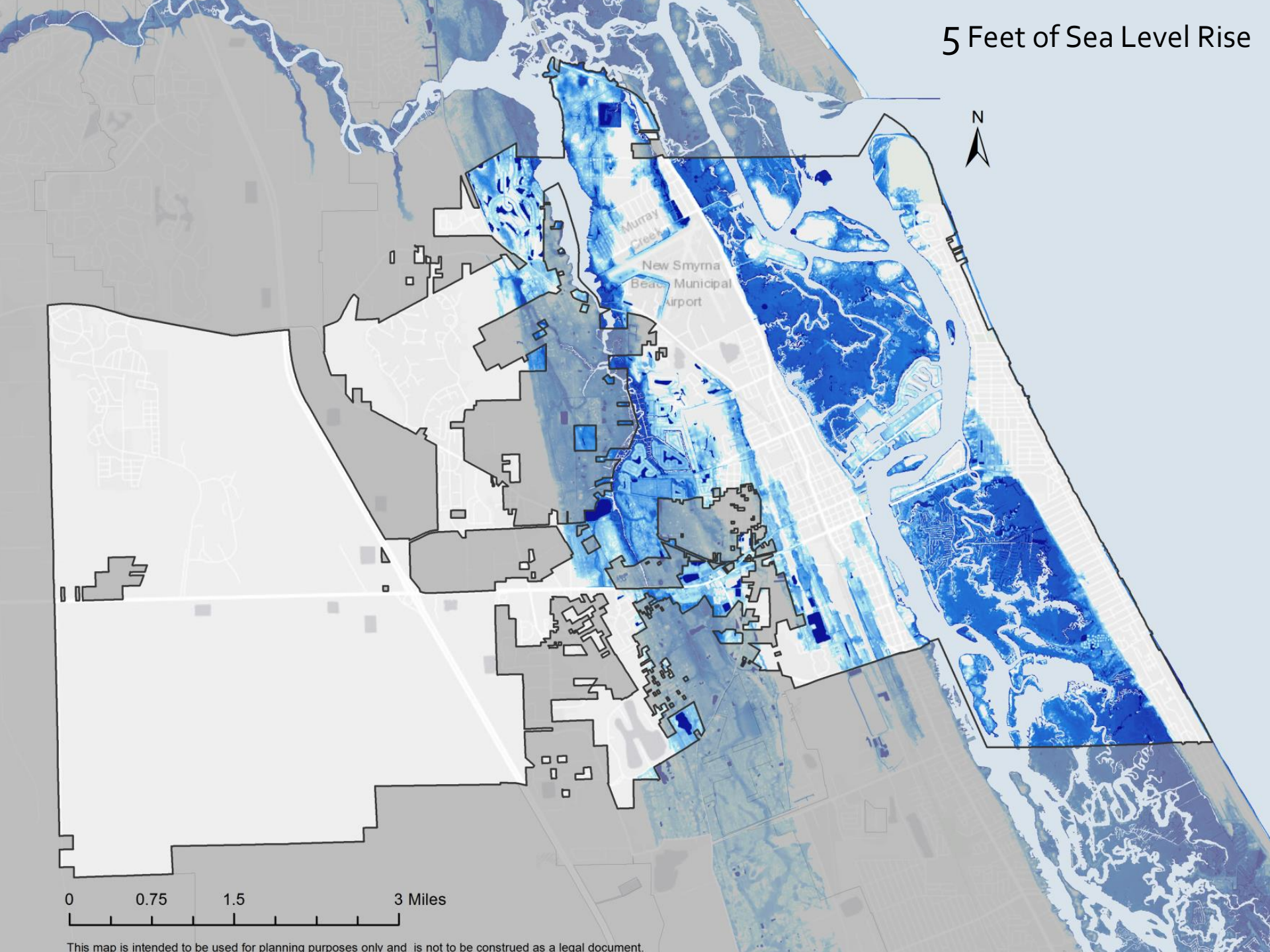


This map is intended to be used for planning purposes only and, is not to be construed as a legal document

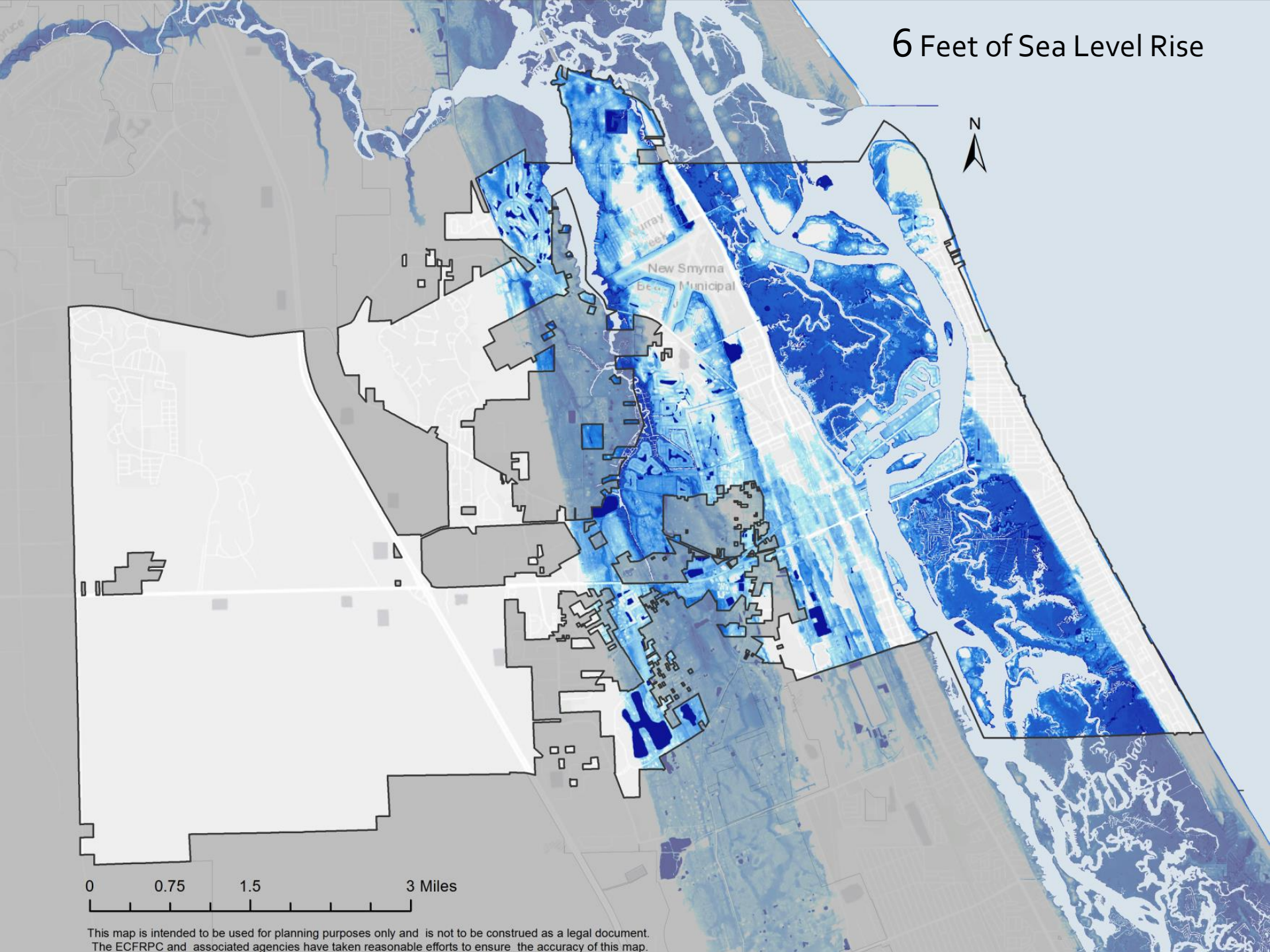

3 Feet of Sea Level Rise
N
Murray Creek
New Smyrna Beach Municipal Airport
0
0.75
1.5
3 Miles



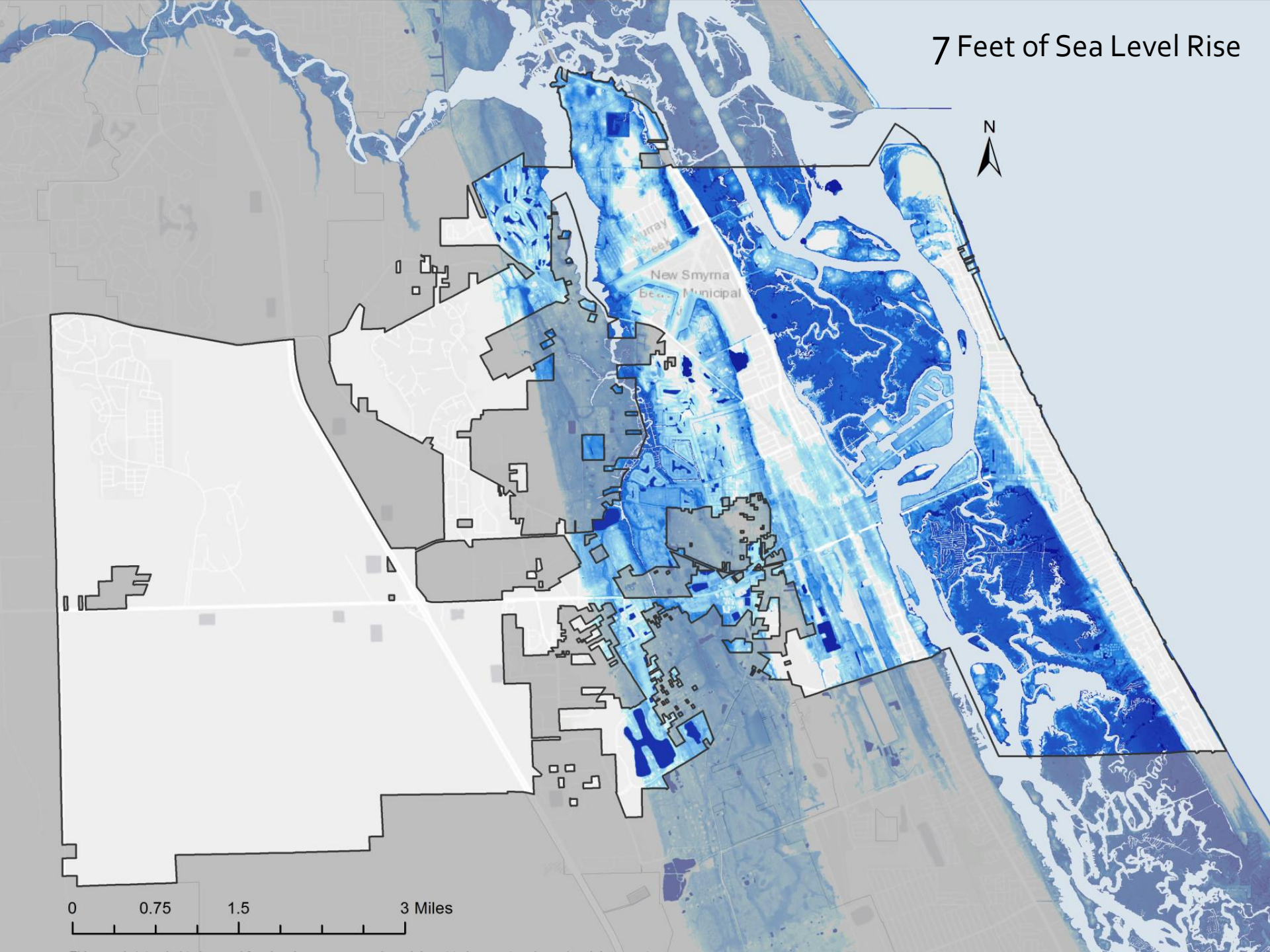
This map is intended to be used for planning purposes only and is not to be construed as a legal document. The ECFRPC and associated agencies have taken reasonable efforts to ensure the accuracy of this map. However, the ECFRPC and associated agencies provide no warranty as to the map's accuracy or completeness, and assume no liability for losses or damages incurred by persons relying on the information it provides.


5 Feet of Sea Level Rise
N
Murray Creek
New Smyrna Beach Municipal Airport
0
0.75
1.5
3 Miles
This map is intended to be used for planning purposes only and is not to be construed as a legal document.

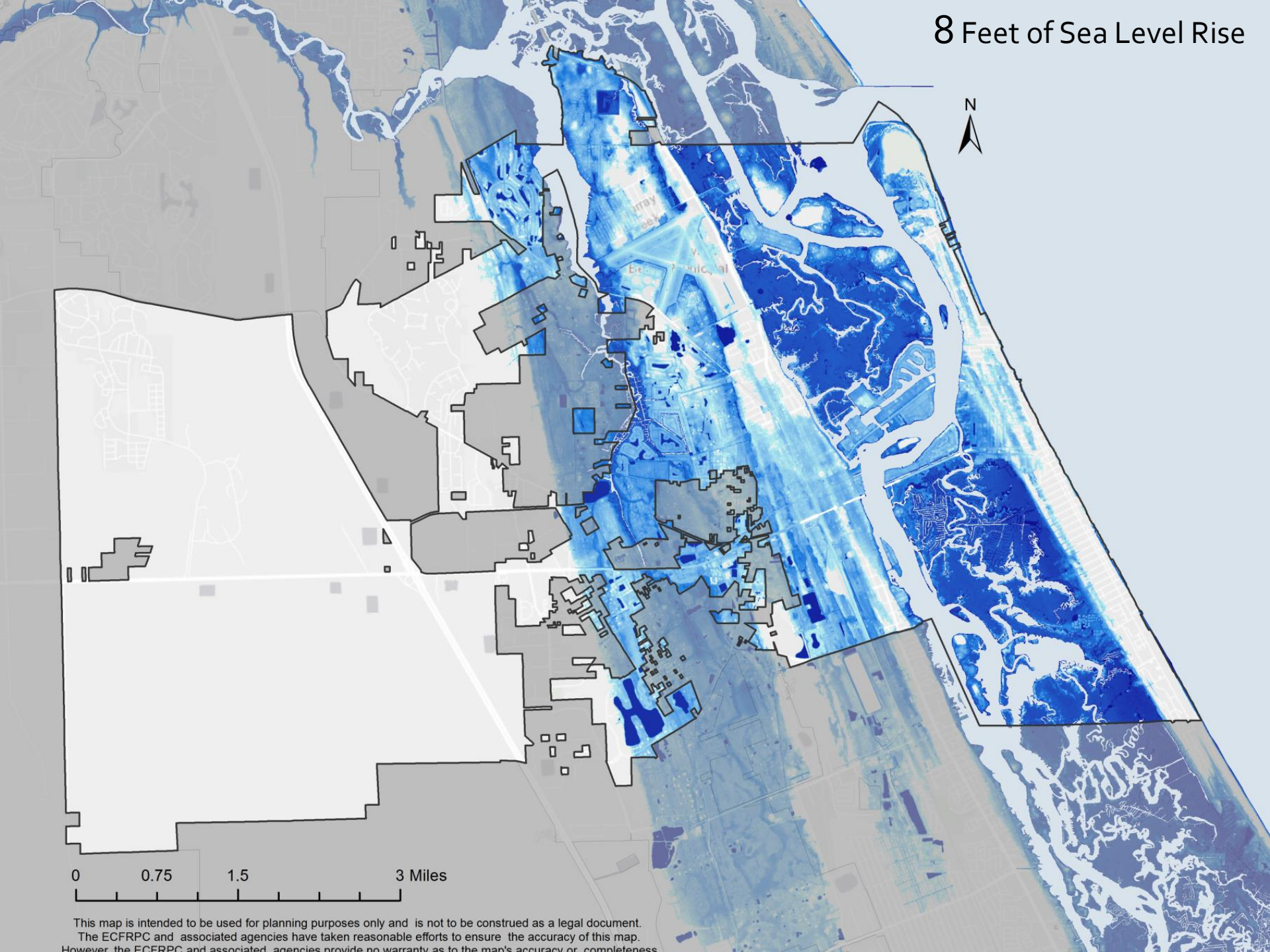
6 Feet of Sea Level Rise



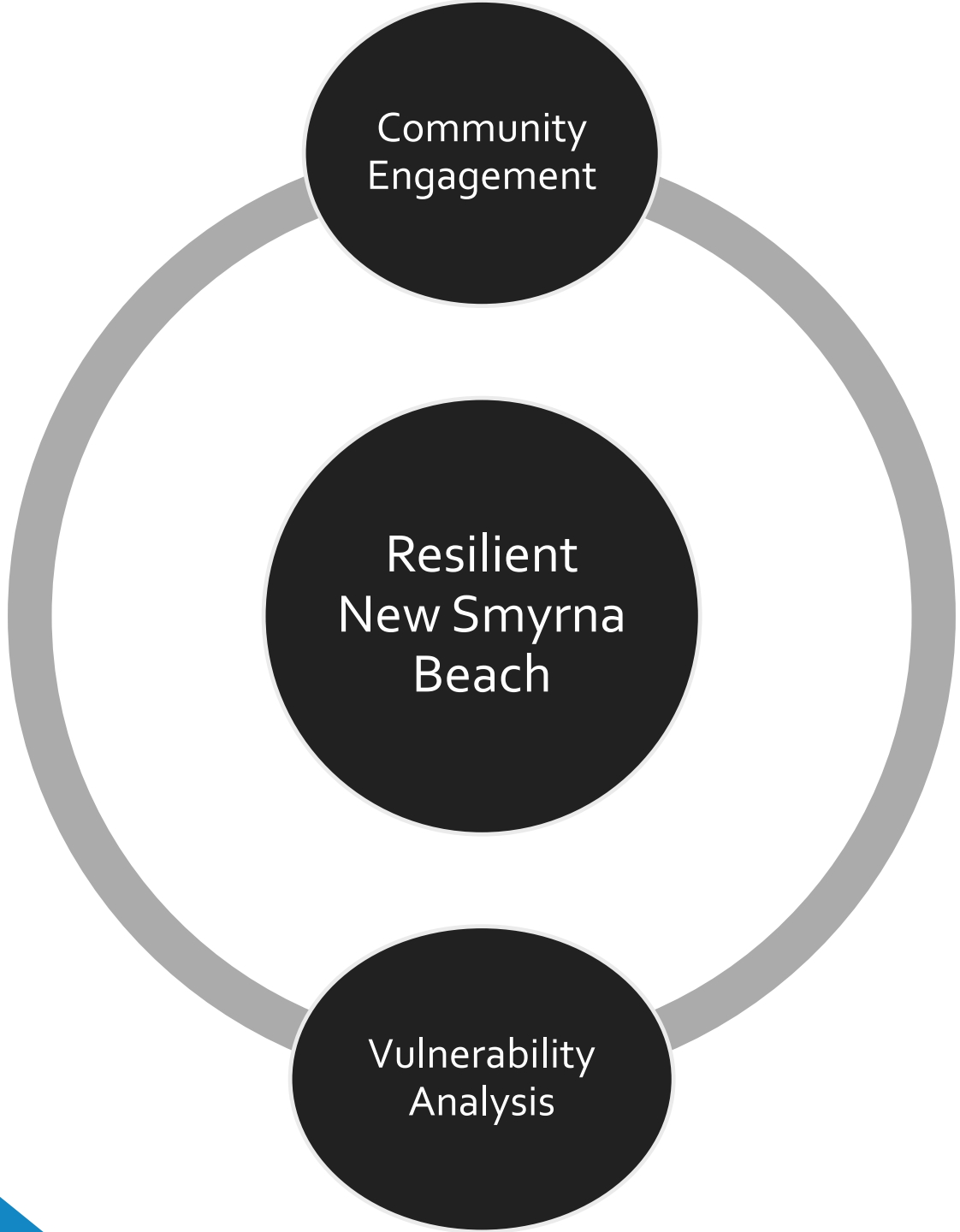
This map is intended to be used for planning purposes only and is not to be construed as a legal document. The ECFRPC and associated agencies have taken reasonable efforts to ensure the accuracy of this map.


7 Feet of Sea Level Rise
N
New Smyrna
Municipal
0
0.75
1.5
3 Miles

8 Feet of Sea Level Rise



This map is intended to be used for planning purposes only and is not to be construed as a legal document.
The ECFRPC and associated agencies have taken reasonable efforts to ensure the accuracy of this map.
However, the ECFRPC and associated agencies provide no warranty as to the map's accuracy or completeness

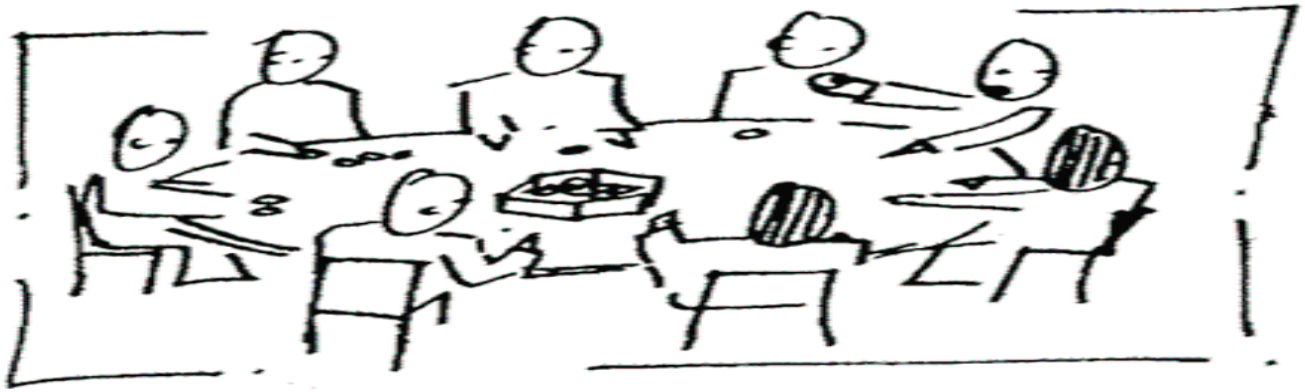

Community Engagement
Resilient New Smyrna Beach
Vulnerability Analysis

Community Engagement
Resilient New Smyrna Beach
Strategy Development
Vulnerability Analysis

Community Engagement
Vulnerability Analysis
Strategy Development
Policy Updates
Resilient New Smyrna Beach

Public Engagement
Vulnerability Analysis
Strategy Development
Policy Updates
Implementation
Resilient New Smyrna Beach

Community Engagement Activities



60 Minutes

Groups A and B – mapping exercises- identify assets and areas of focus; strategies (15 Min. each)

Group C – identify vulnerabilities and associated strategies (30 Min)

Next Steps and Public Survey

MetroQuest
Engagement...optimized

Closing Remarks

Fred Milch, AICP
Project Manager
fmilch@ecfrpc.org

Tara McCue, AICP
Director of Planning and Community Development
Tara@ecfrpc.org

www.ecfrpc.org
www.perilofflood.net/NewSmyrnaBeach