

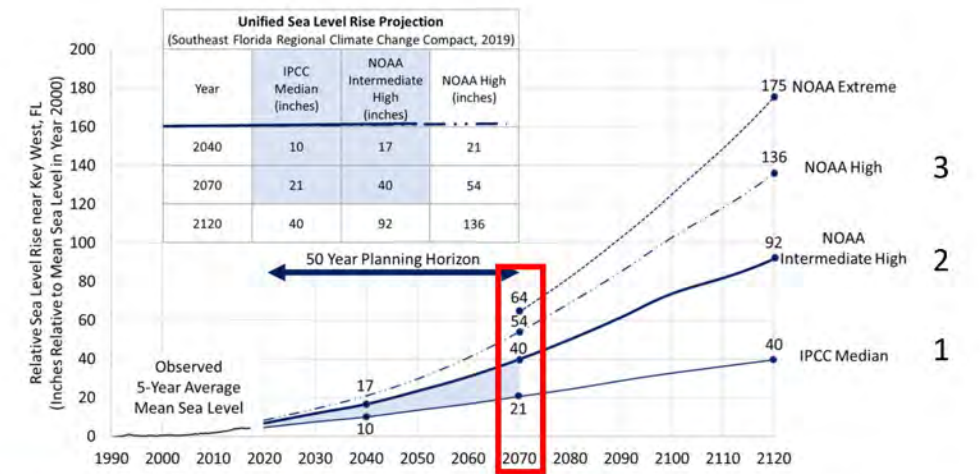


Resilient Martin

Project Summary

- Continues partnership with the Florida Department of Environmental Protection (FDEP) to plan for sea level rise
- Creates Resiliency and Watershed Management Plan for Martin County consistent with the National Flood Insurance Program's Community Rating System (CRS)
 - Analyzes sea level rise projections for 2040, 2070, and 2100 based on the NOAA Intermediate High Projection (2) with an emphasis on 2070 planning horizon
- Assesses vulnerability for critical facilities, public works, utilities, roads, other infrastructure
- Identifies economic and business impacts

The image to the right shows the 2019 Southeast Florida Regional Climate Change Compact Unified Sea Level Rise Projections, developed by Palm Beach, Broward, Miami-Dade, and Monroe Counties to plan for sea level rise. Martin County has adopted these projections for use as a tool to predict future impacts, identify potential vulnerabilities, and prioritize capital project planning efforts. The Projections incorporate four sea level rise curves from the Intergovernmental Panel on Climate change and NOAA: the difference in the curves for a given year demonstrates the variability in potential scenarios. Each curve is generated using different assumptions about the future including land use, ice melt, population growth and atmospheric conditions.



About the County: Martin County sits on the east-central coast of Florida where it occupies 543 square miles and approximately 22 miles of Atlantic Ocean. The County has a complex of interior waterways, with the main system draining from Lake Okeechobee in the west and flowing through the St. Lucie Inlet to the east. Many smaller rivers and creeks flow through the County and also connect to this main waterway. The interconnection of these extensive waterways to the Atlantic ocean make large areas in Martin County especially vulnerable to the effects of climate change and sea level rise. With the majority of the County's 160,000 residents and businesses concentrated along these waterfront areas, the need to establish a resilient path forward is essential.

Planning Efforts: In 2018, the County applied for and was awarded a grant from FDEP's Office of Resilience and Coastal Protection, CM933, to begin its resilience efforts. This second Resilience Planning Grant R1911, awarded in 2019, builds upon that work. The County has now completed extensive vulnerability analysis and planning, as well as resident engagement and community education. The culmination of this work is a Resilience and Watershed Management Plan, which will integrate current and future projects using an interdisciplinary resiliency-based approach.

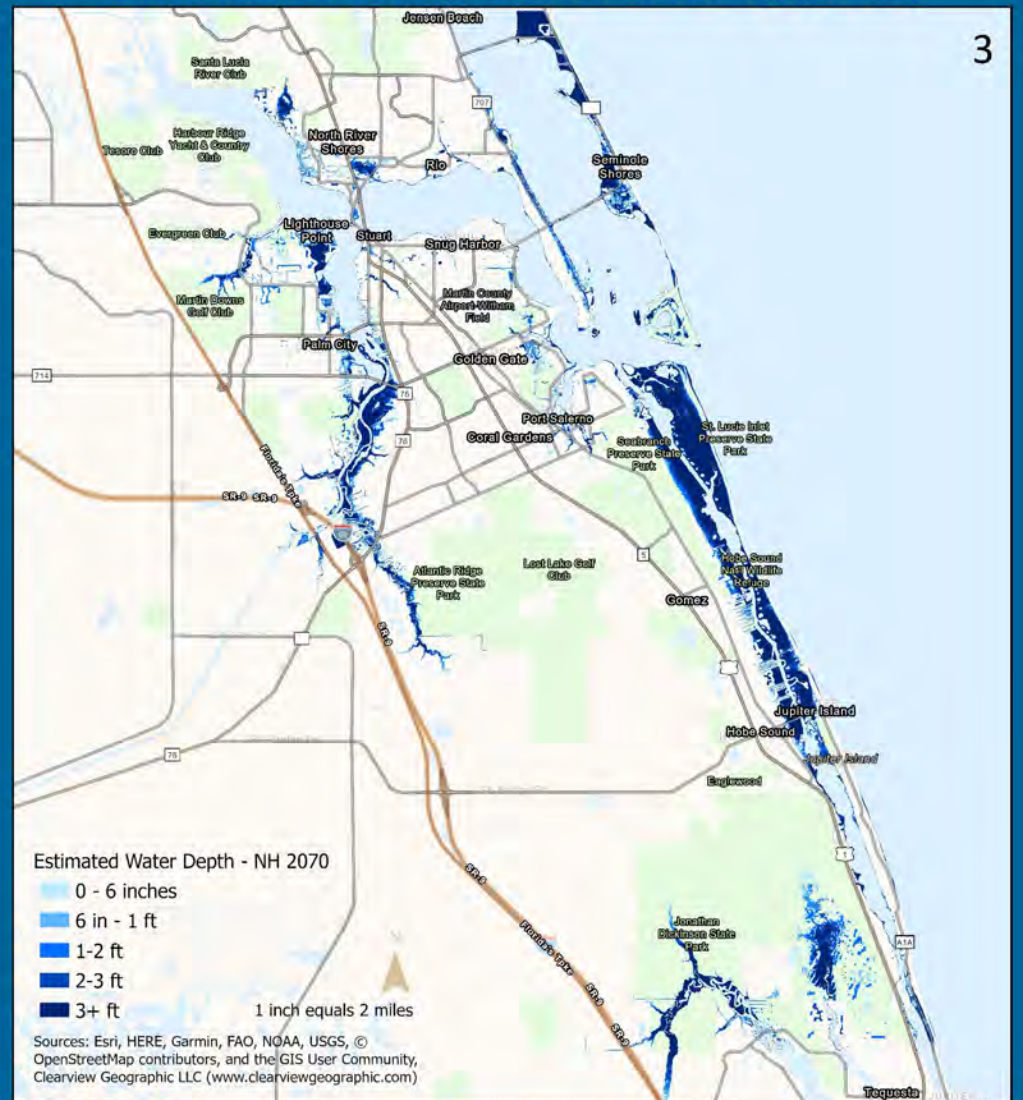
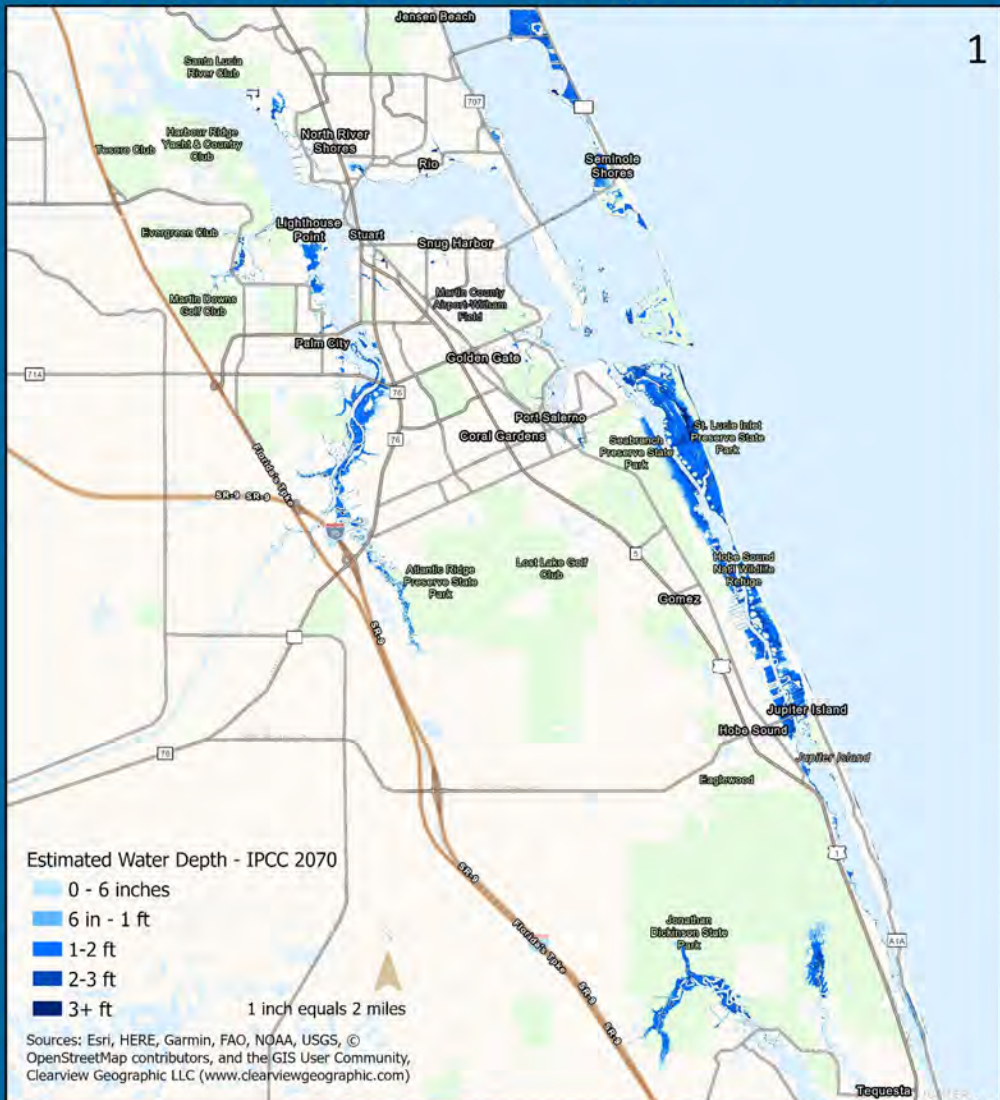
Goals: The County aims to reduce flood insurance rates for its residents by improving its score in the National Flood Insurance Program Community Rating System (CRS) administered by the Federal Emergency Management Agency (FEMA). The sea level rise planning efforts described in this graphic are compliant with program requirements and will earn the County credits toward its ranking in the program. The associated Resilience and Watershed Management Plan is the product of the two grant awards from FDEP's Office of Resilience and Coastal Protection; accordingly, the County continues to coordinate with its partners at FDEP, NOAA, the South Florida Water Management District, and other relevant agencies to work toward meeting the challenges presented by climate change.

Southeast Florida Regional Climate Change Compact 2019 Unified Sea Level Projections for Martin County in 2070

Intergovernmental Panel on Climate Change - Median (21" Rise)

National Oceanic and Atmospheric Administration - Intermediate High (40" Rise)

National Oceanic and Atmospheric Administration - High (54" Rise)

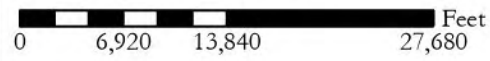


Additional, site-specific, information like flood-proofing measures, drainage improvements, and building height are required to determine the vulnerability of a particular property, parcel, building or other physical feature.

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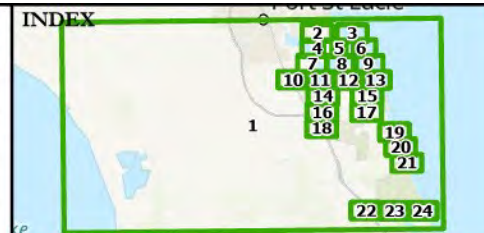
Martin County, Florida



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Projection: NOAA Intermediate High
 Year: 2070
 Water Rise (Inches): Approx. 40
 Scenario: MHHW
 Page: 1 of 24



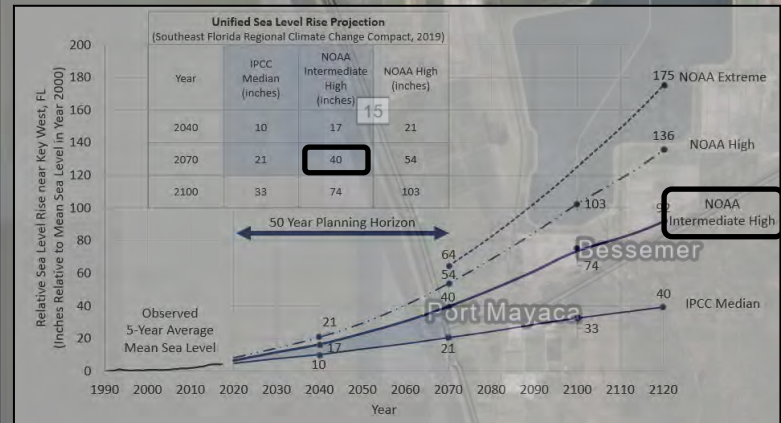
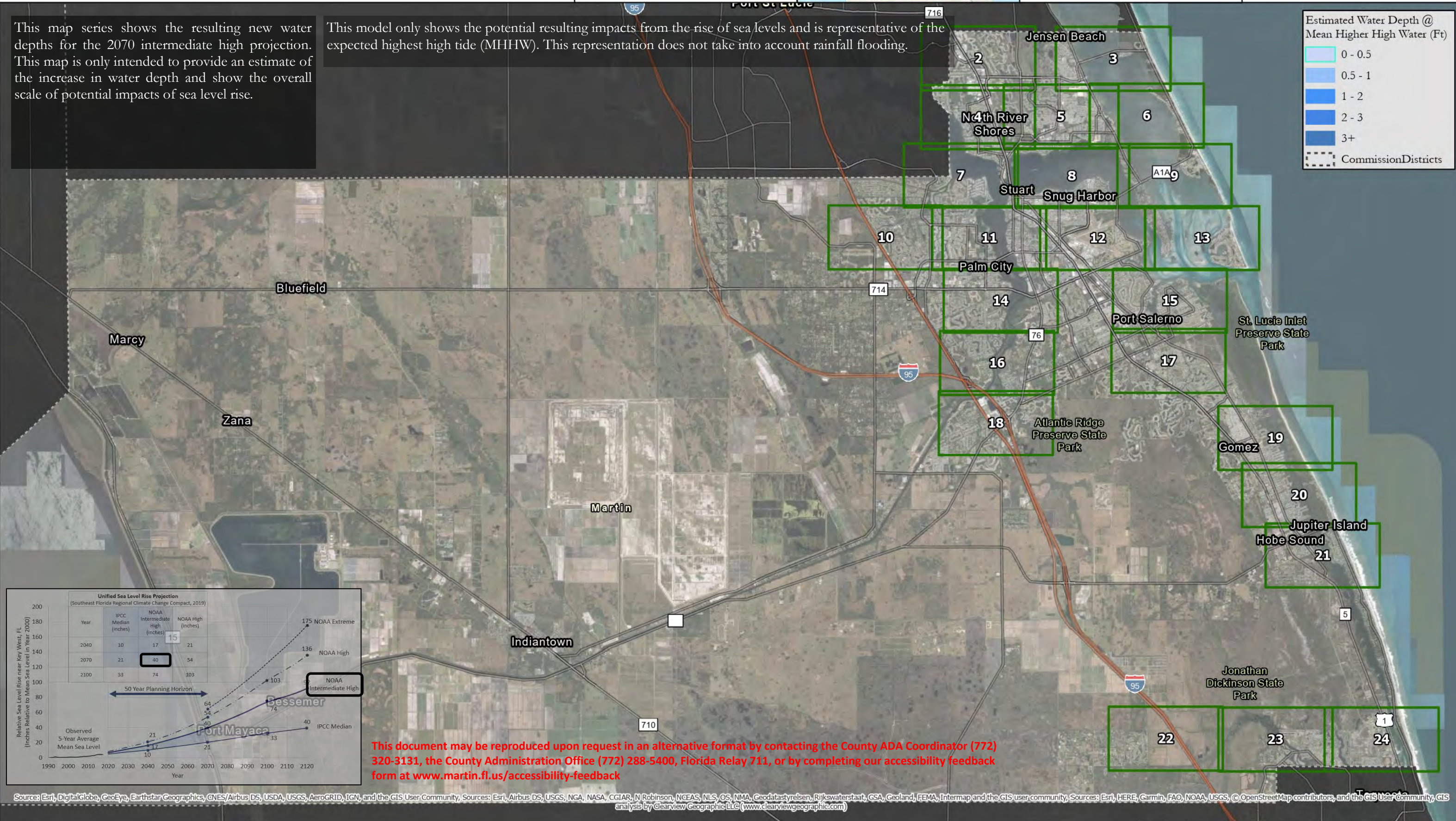
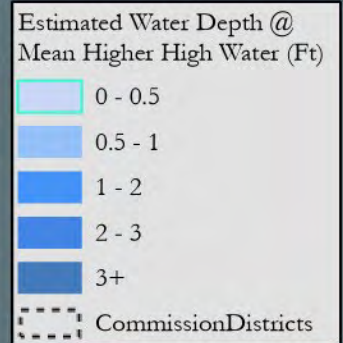
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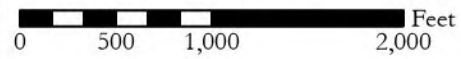


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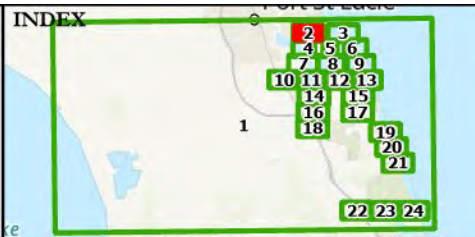
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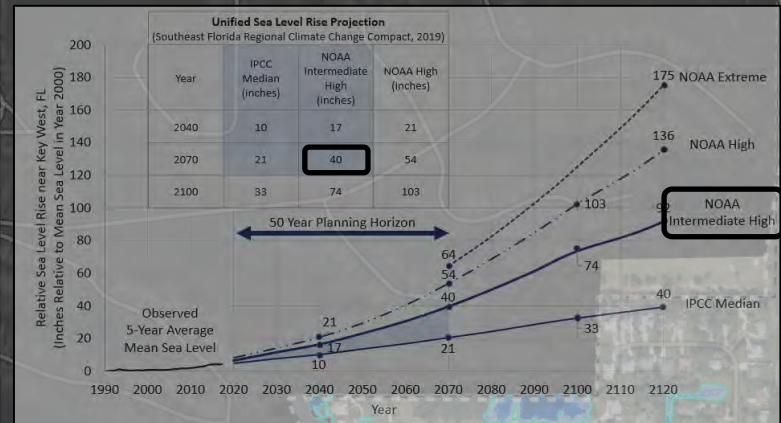
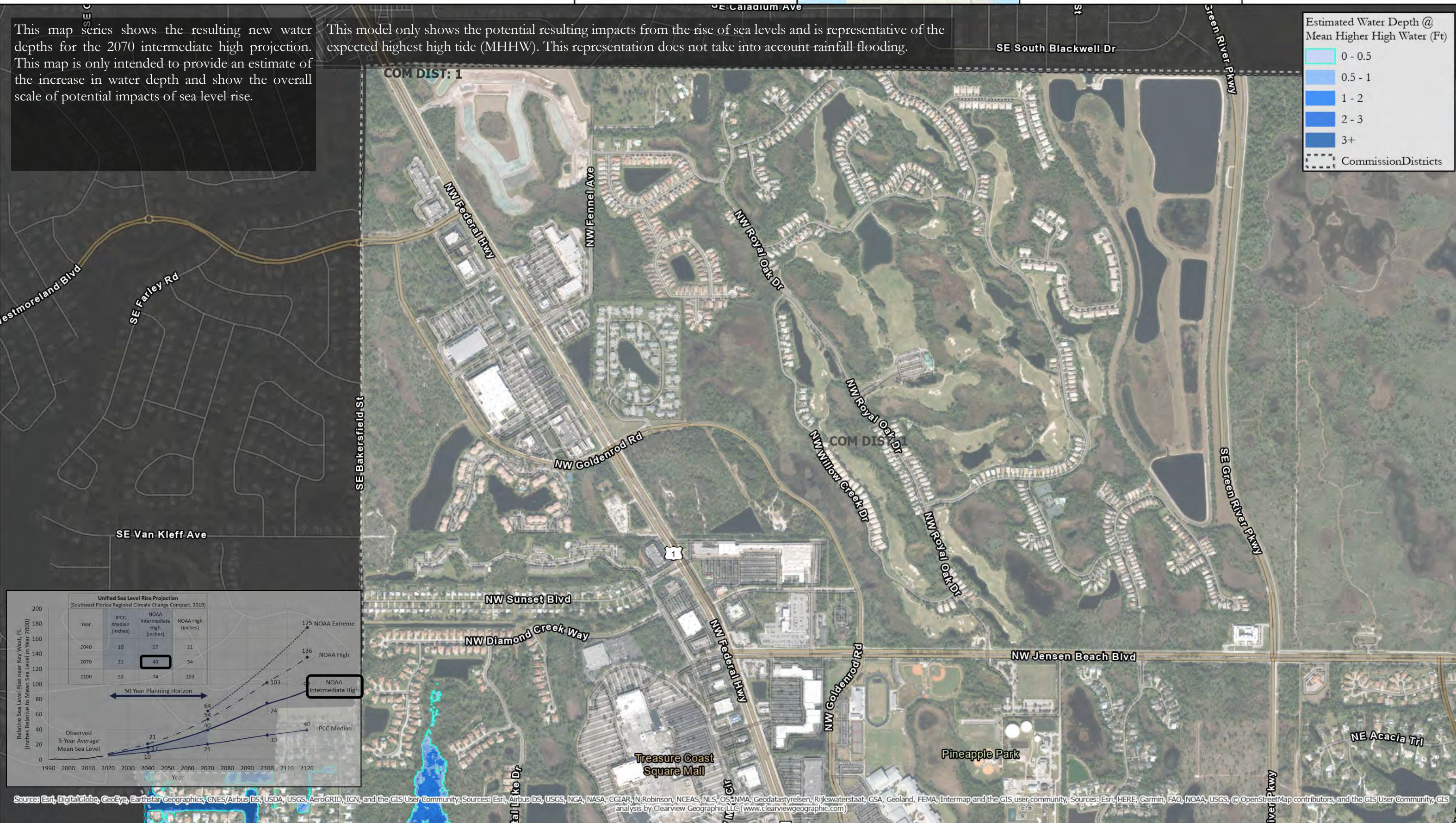
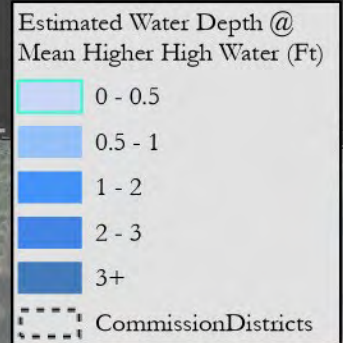
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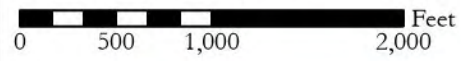


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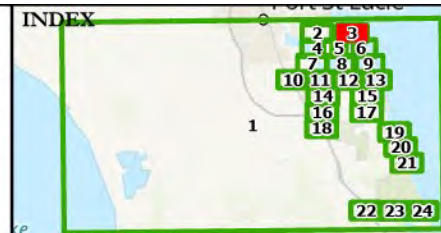
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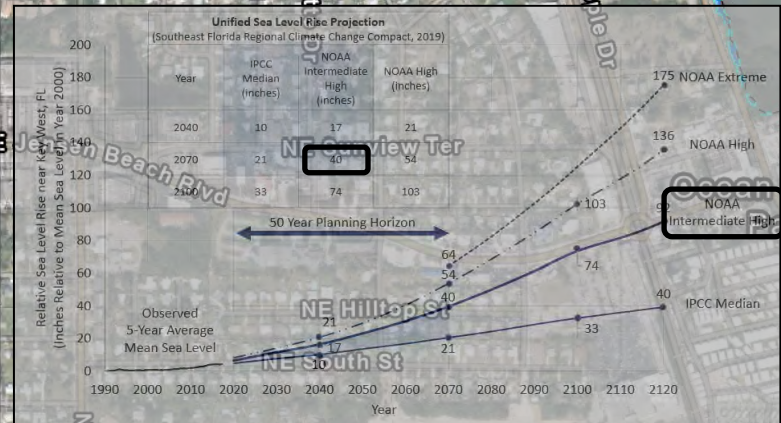
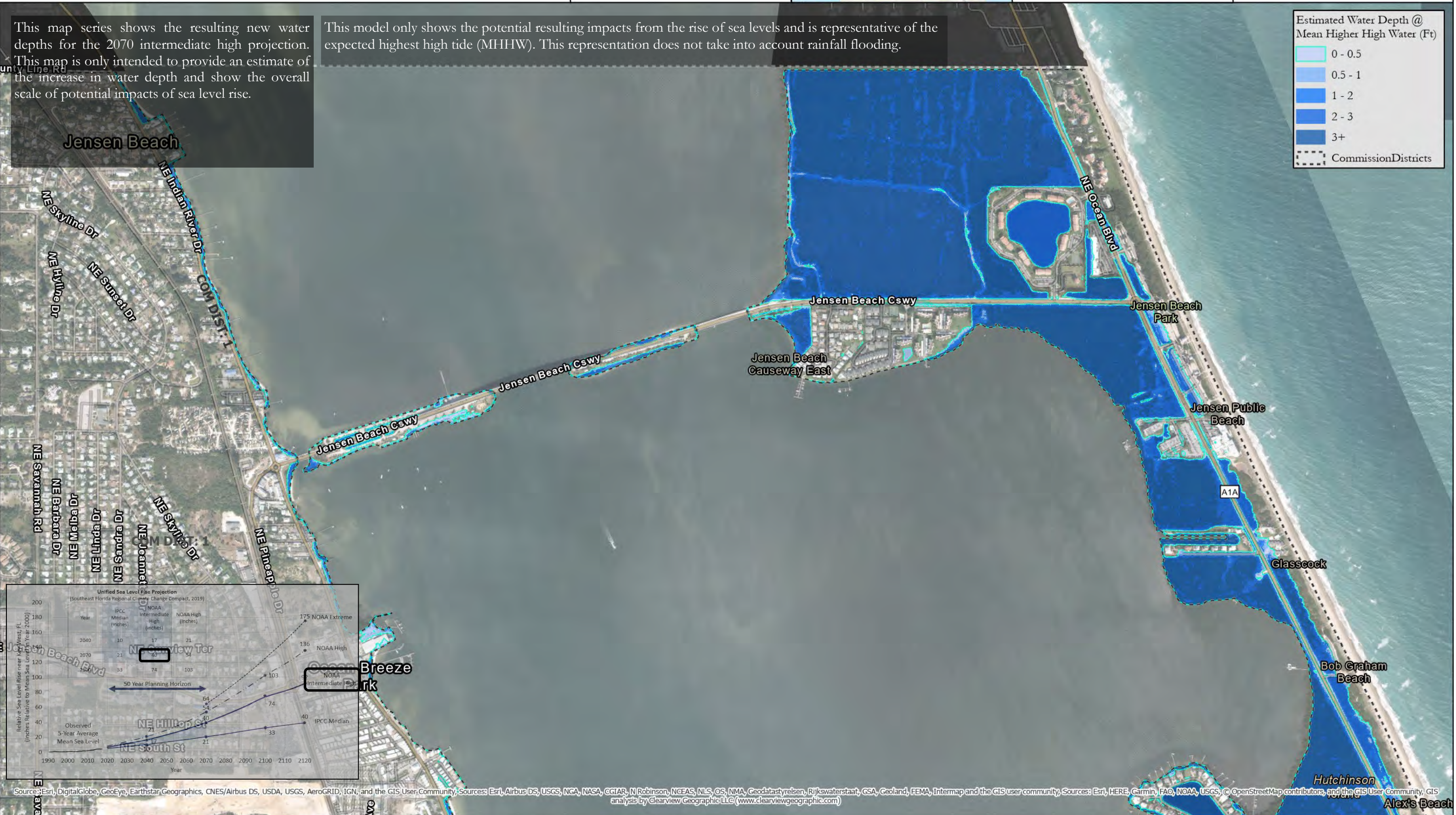
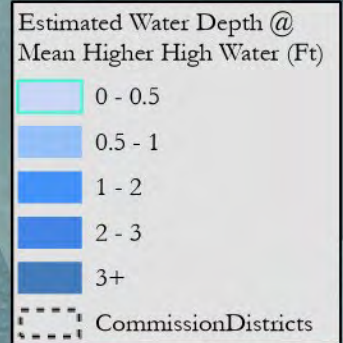
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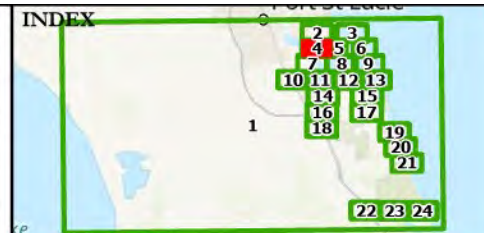
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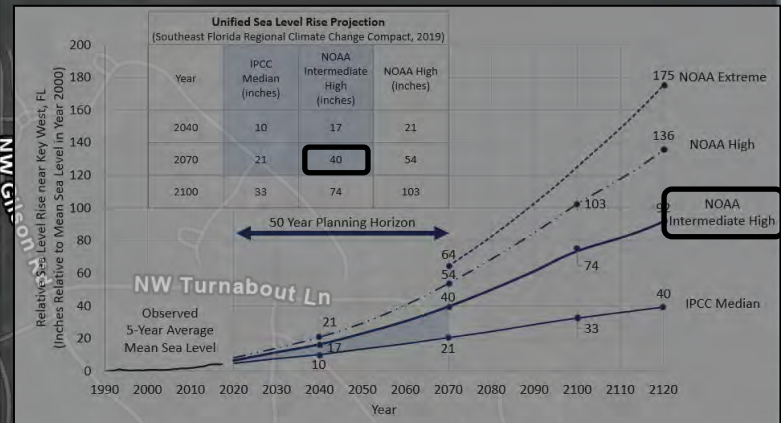
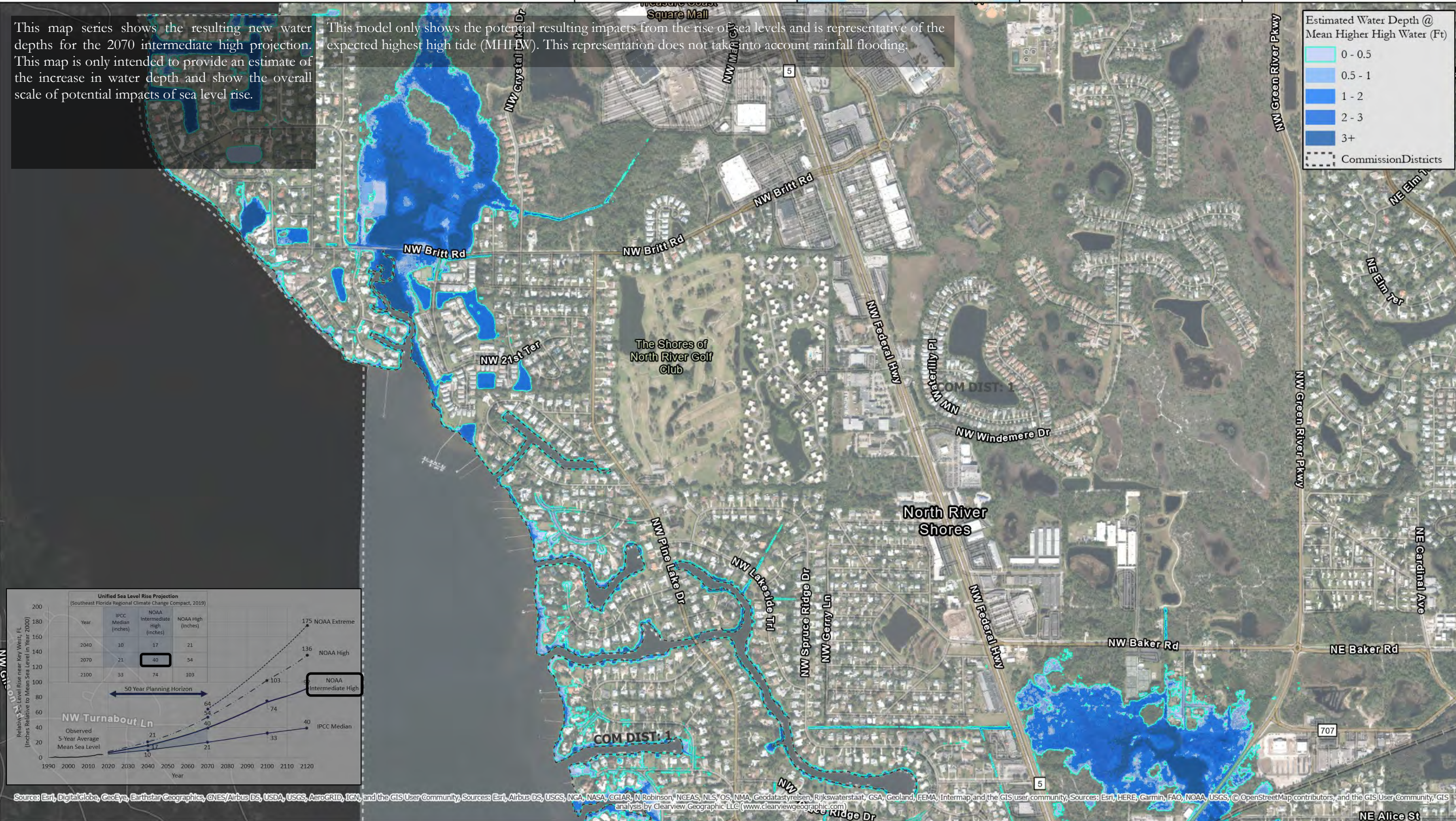
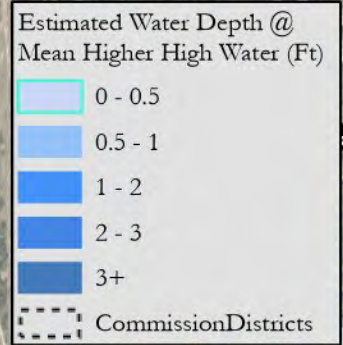
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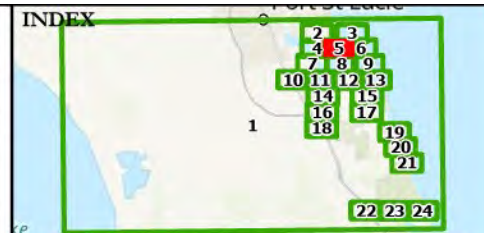
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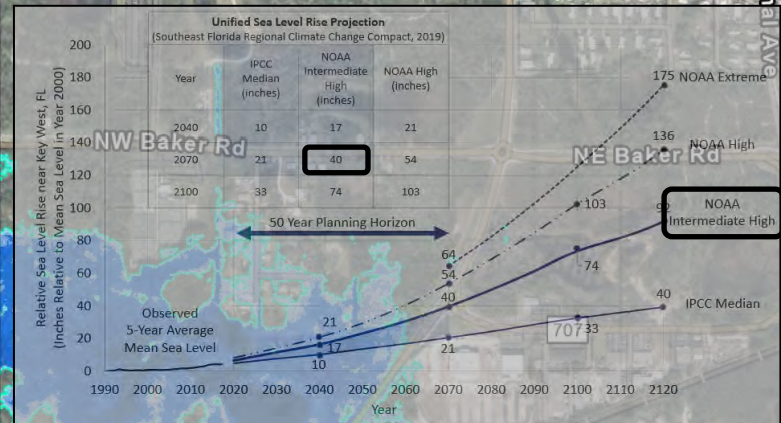
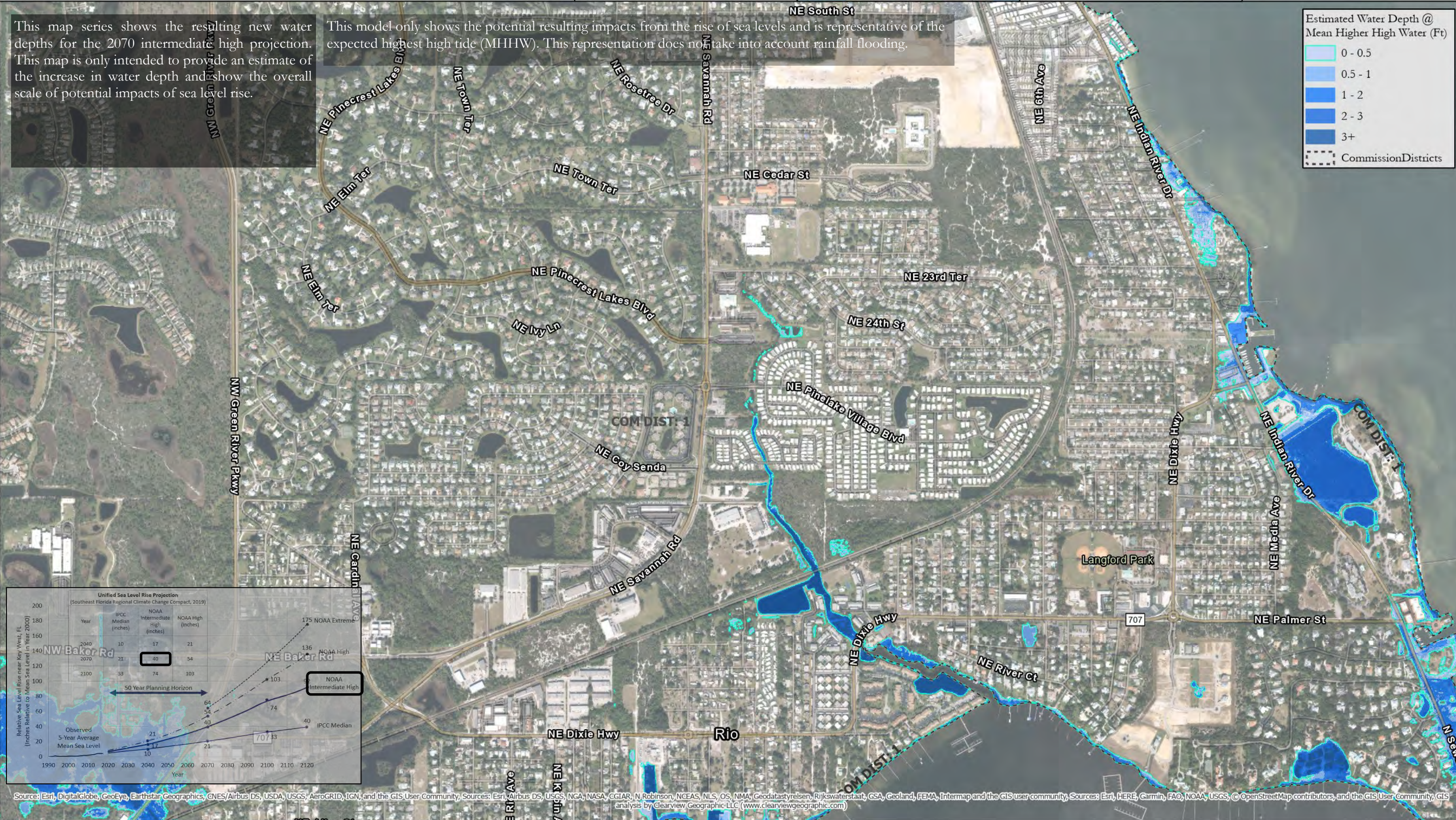
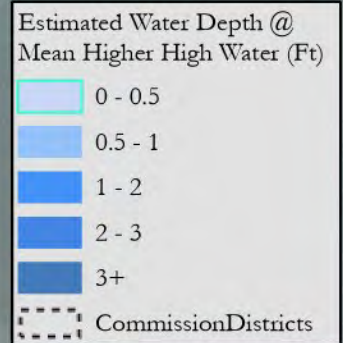
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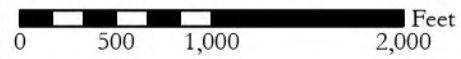


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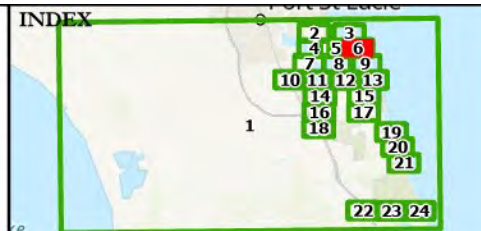
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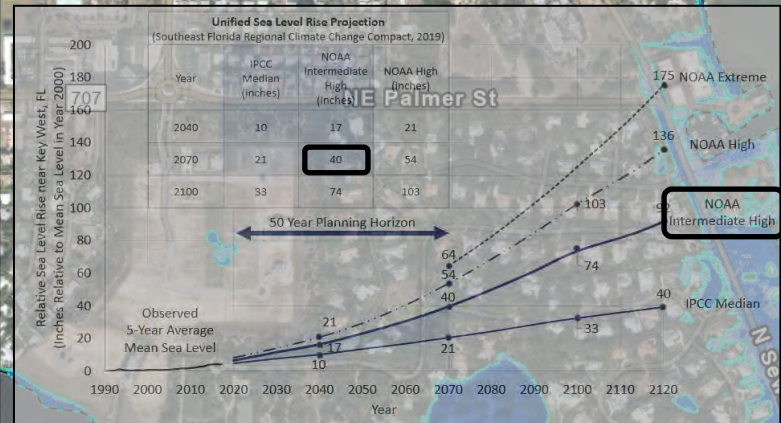
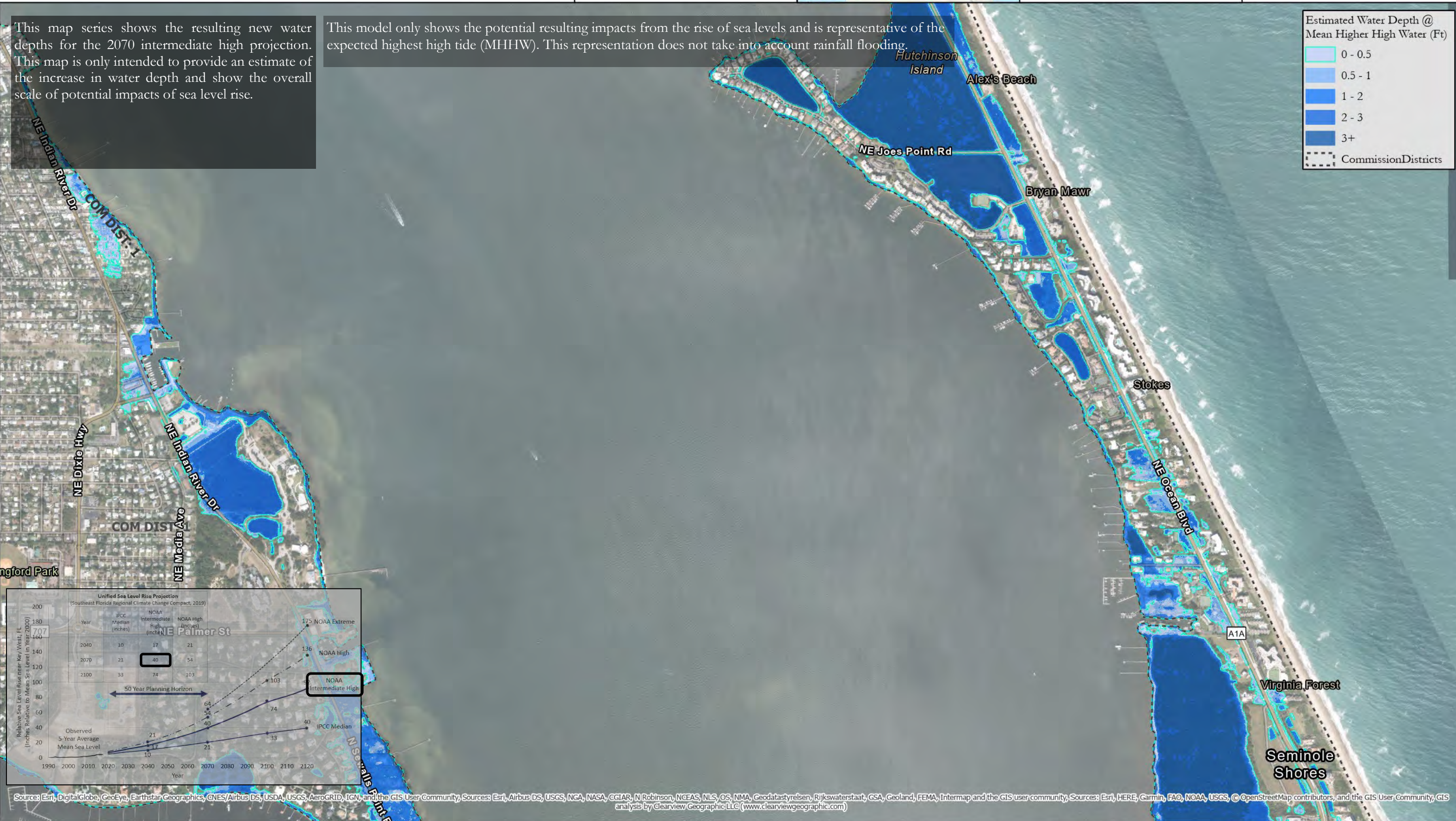
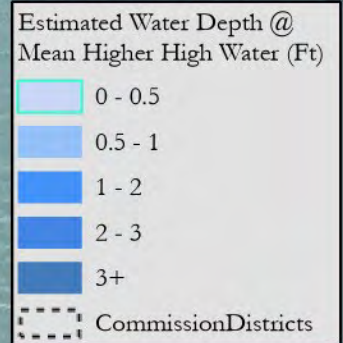
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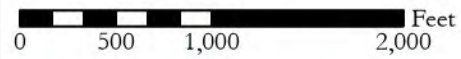


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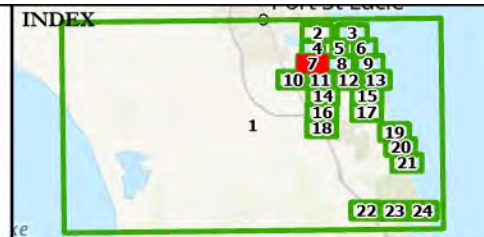
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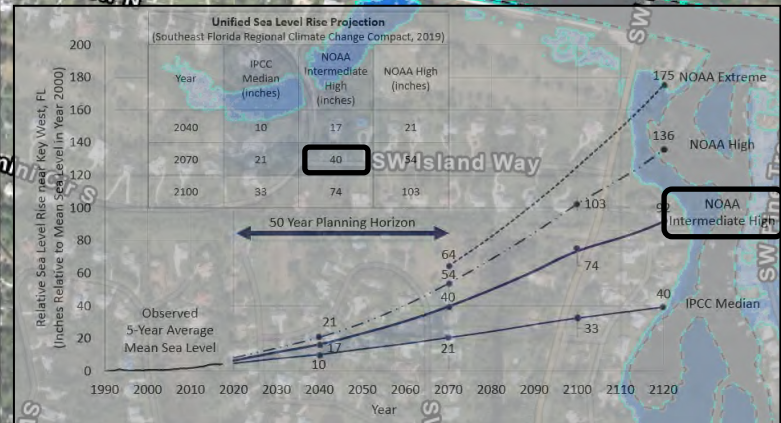
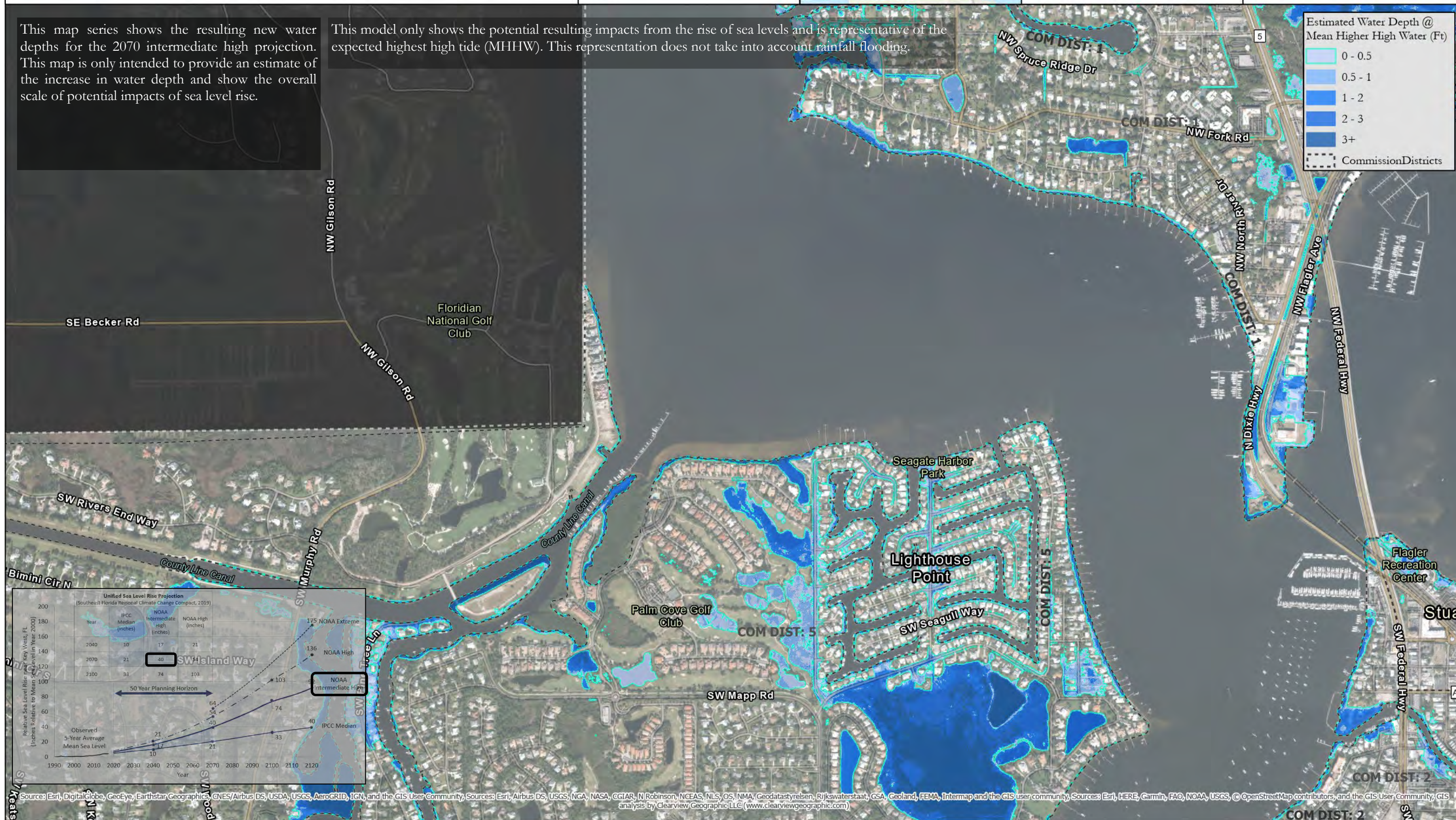
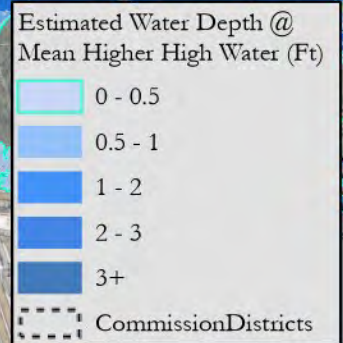
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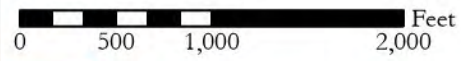


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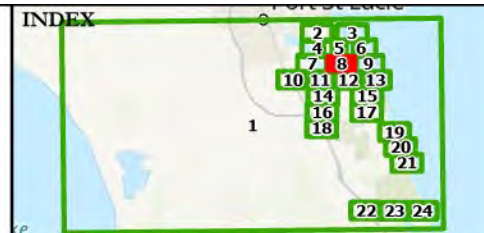
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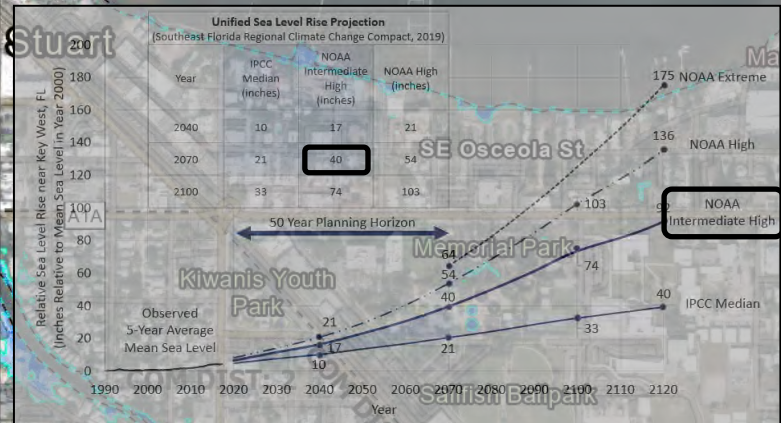
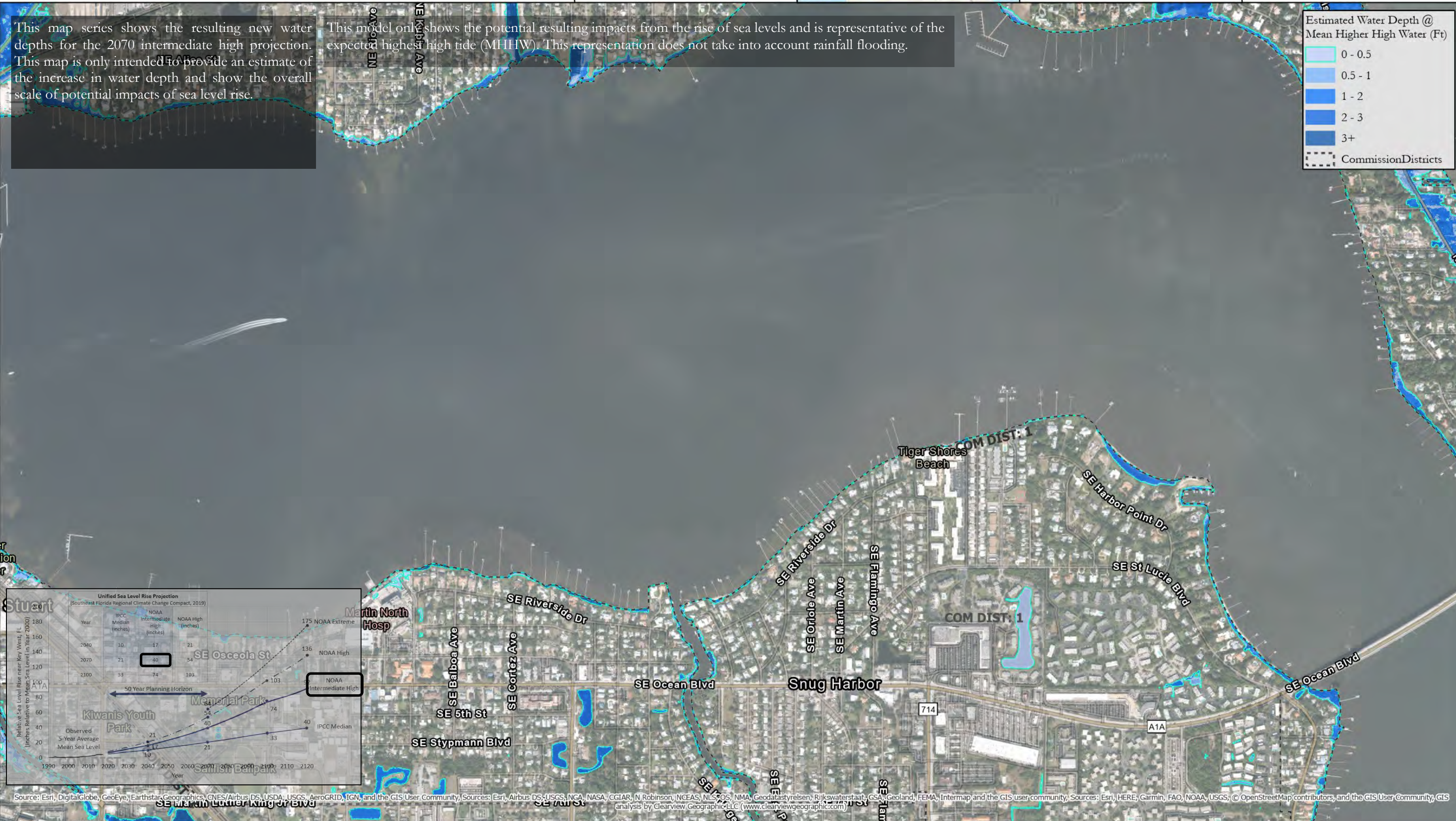
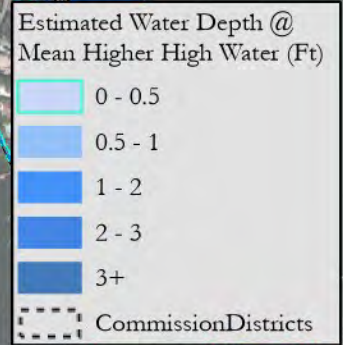
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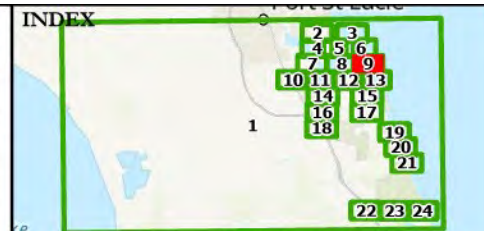
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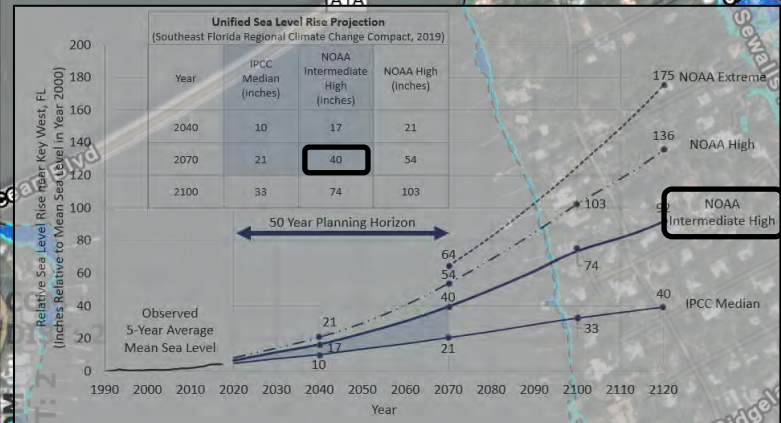
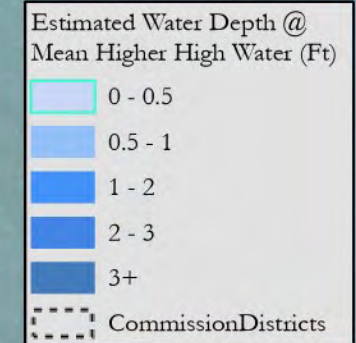
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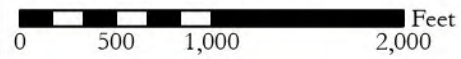


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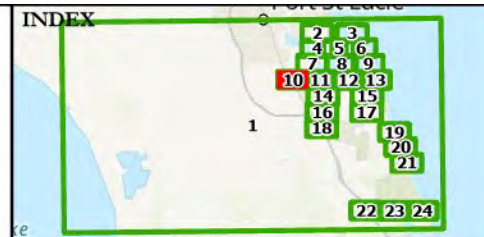
Martin County, Florida



AClark 06/03/2020 Z:/1836B



Projection: NOAA Intermediate High
 Year: 2070
 Water Rise (Inches): Approx. 40
 Scenario: MHHW
 Page: 10 of 24



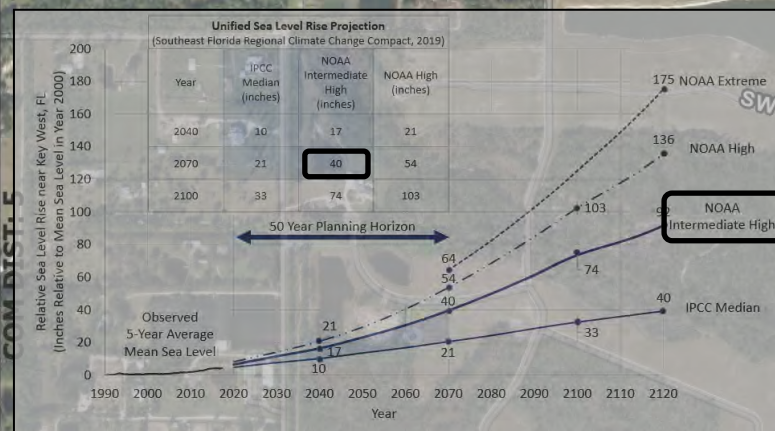
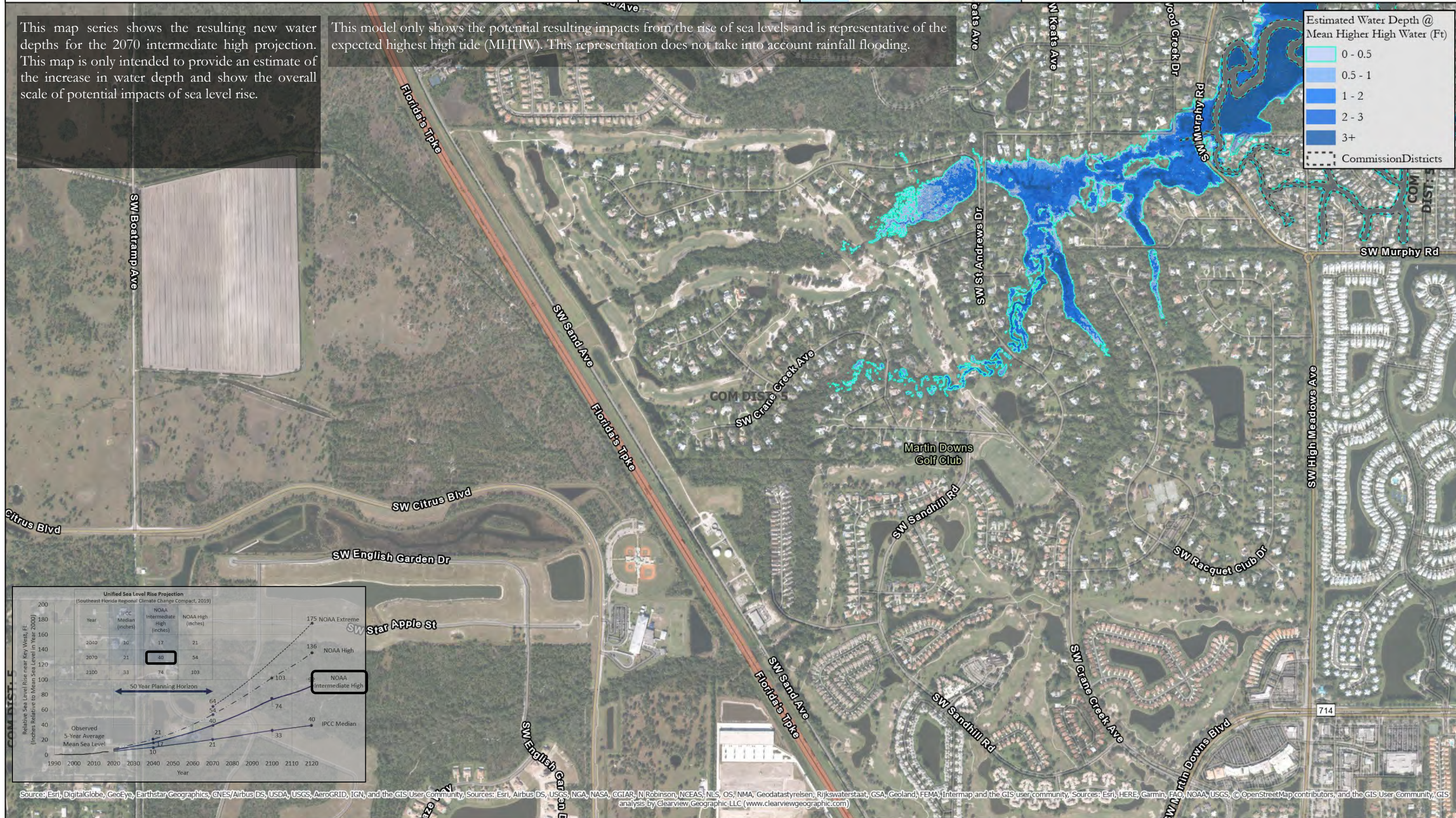
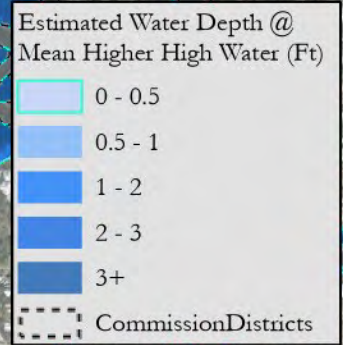
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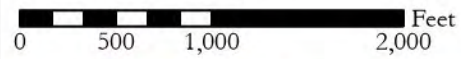


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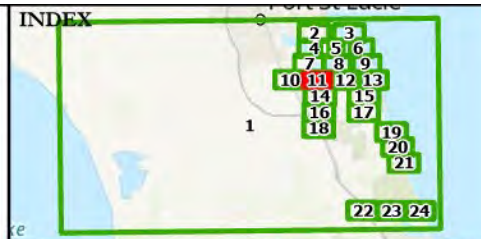
Martin County, Florida



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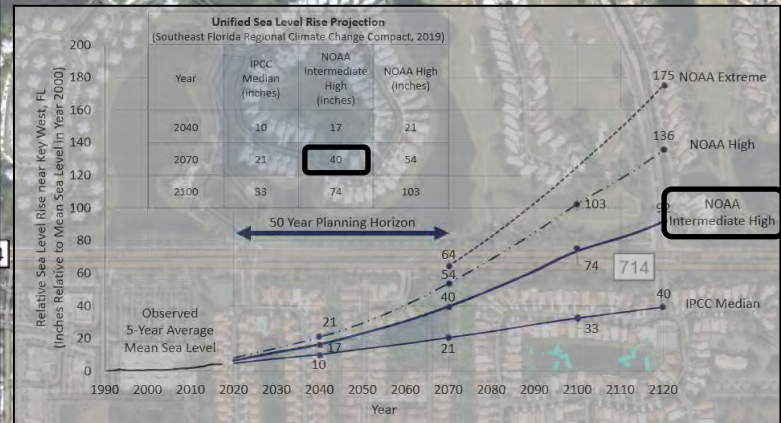
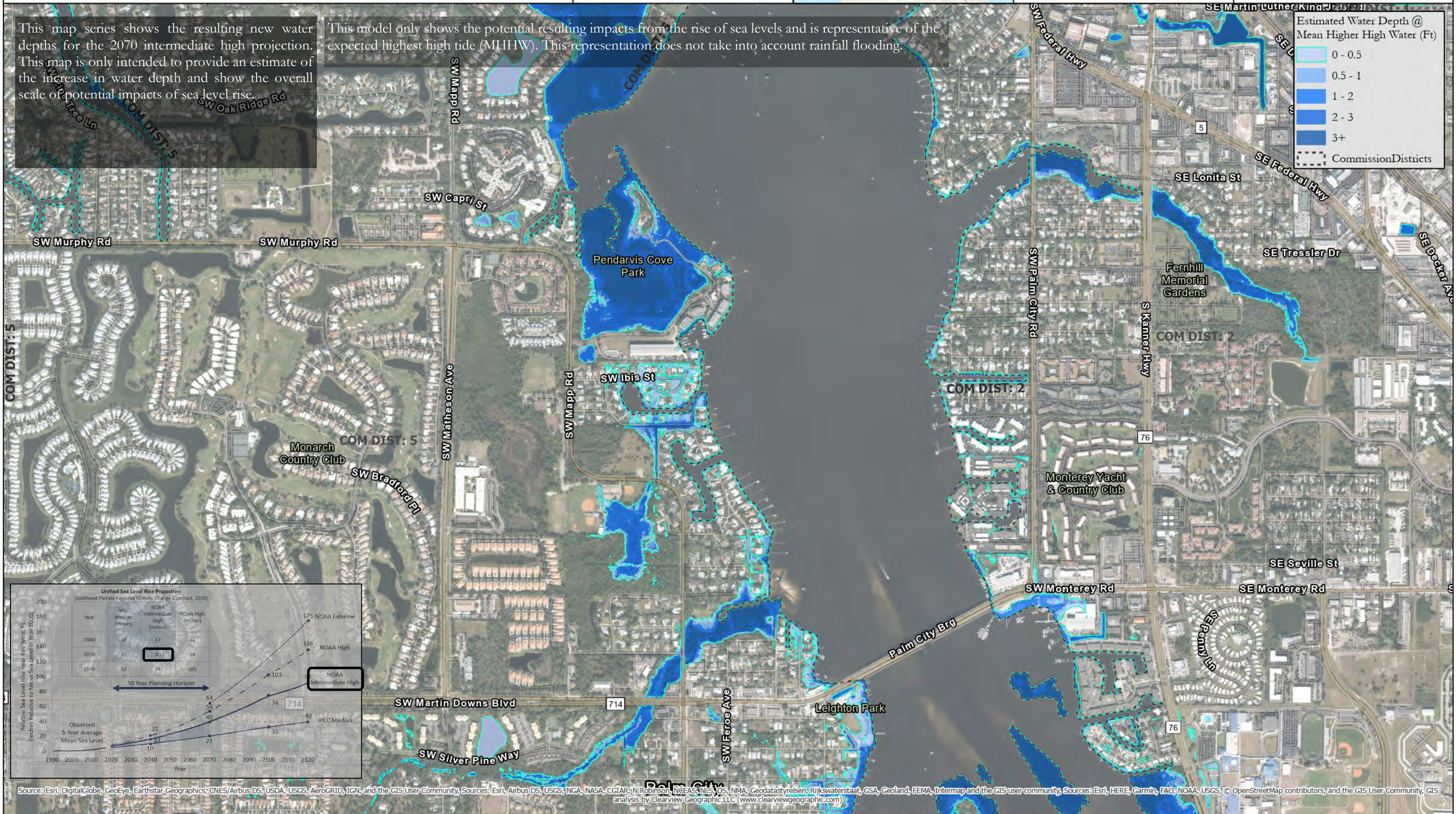
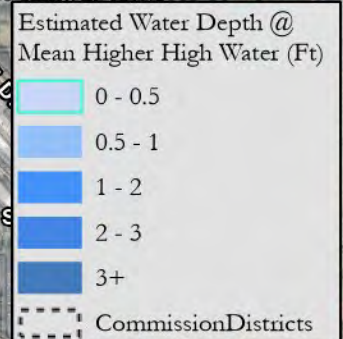
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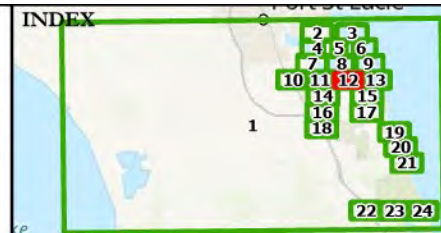
Martin County, Florida



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Projection: NOAA Intermediate High
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 Water Rise (Inches): Approx. 40
 Scenario: MHHW
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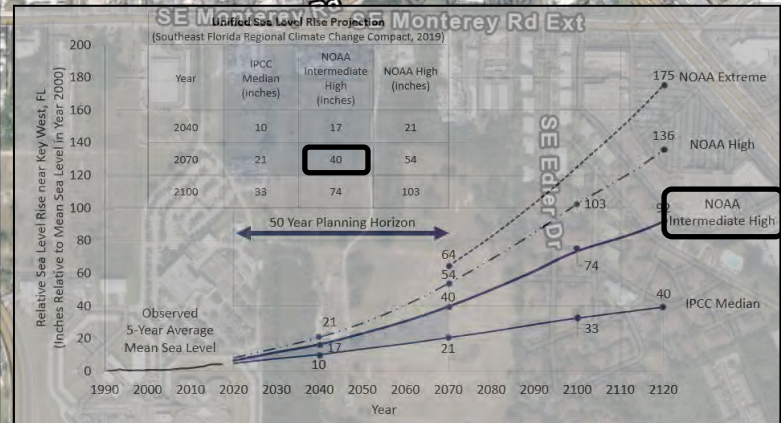
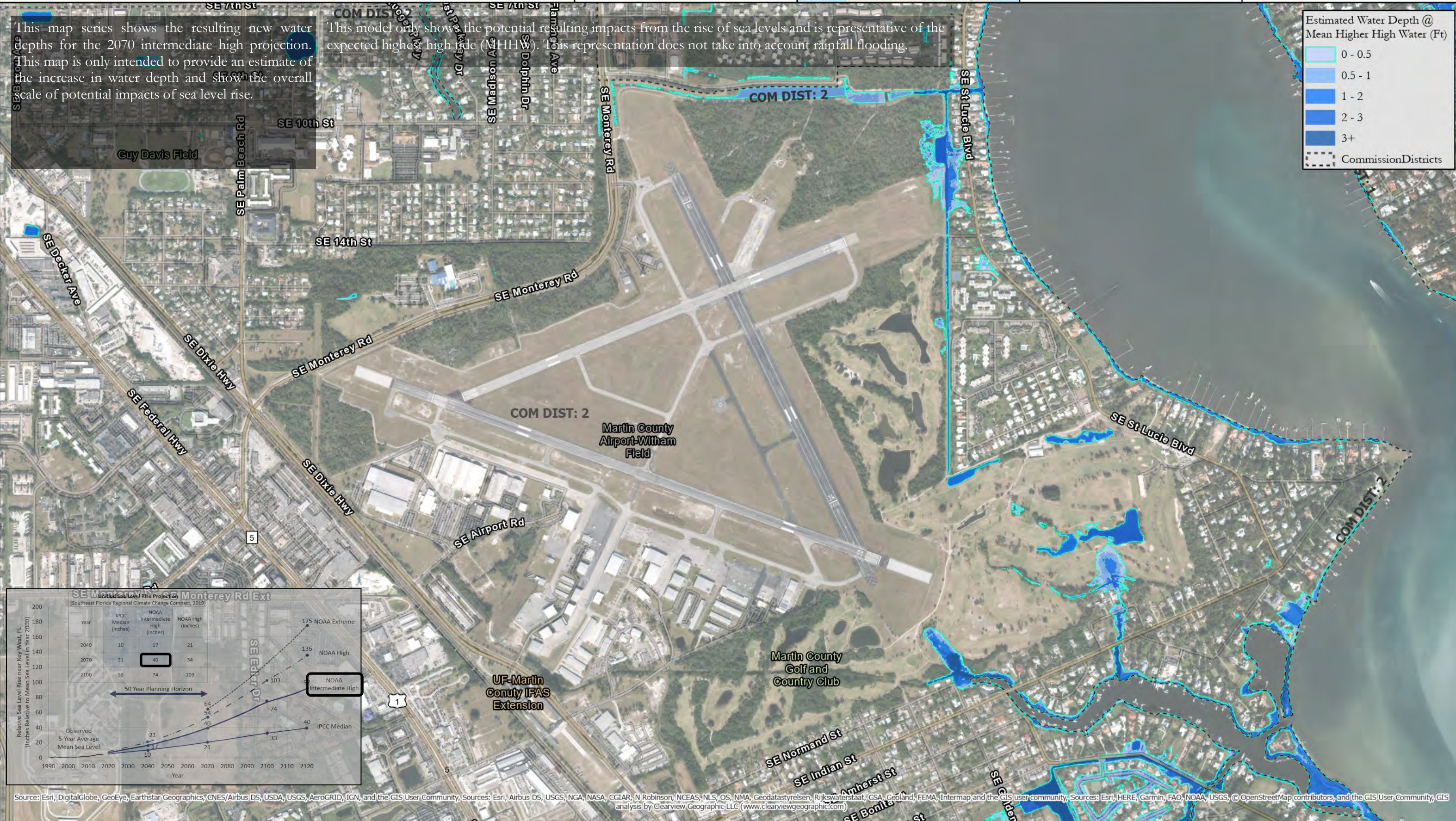
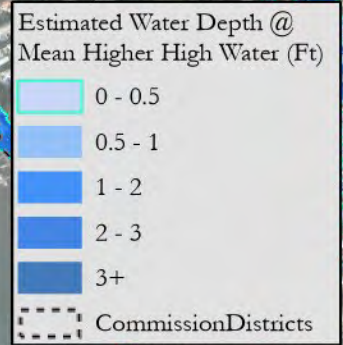
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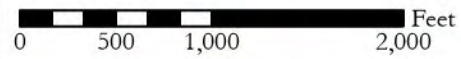


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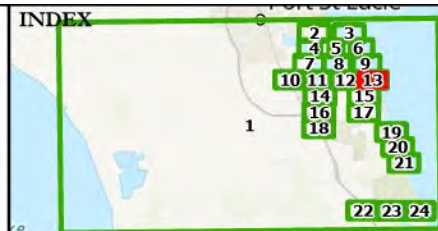
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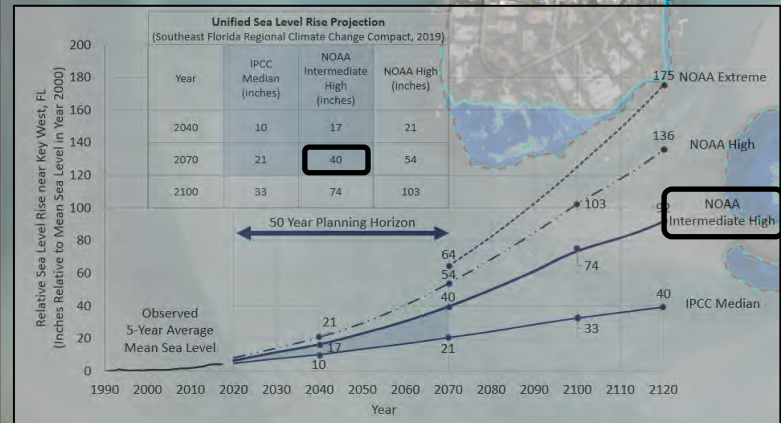
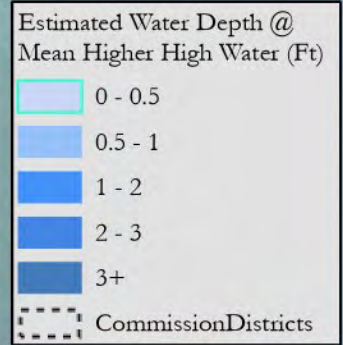
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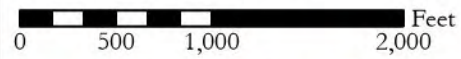


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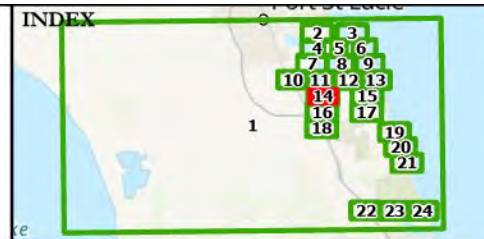
Martin County, Florida



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 Year: 2070
 Water Rise (Inches): Approx. 40
 Scenario: MHHW
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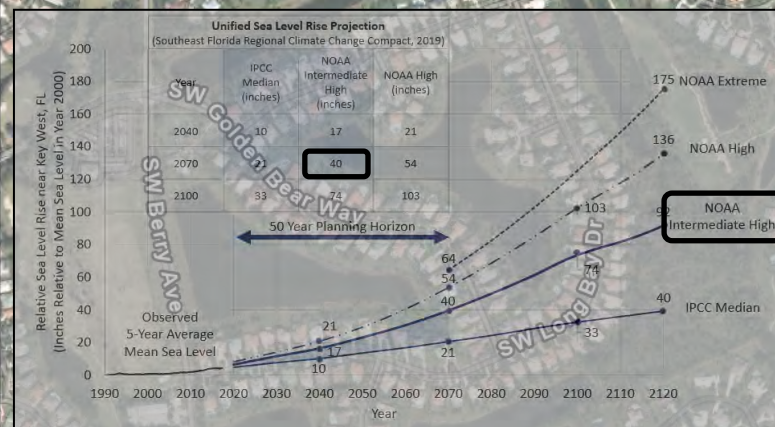
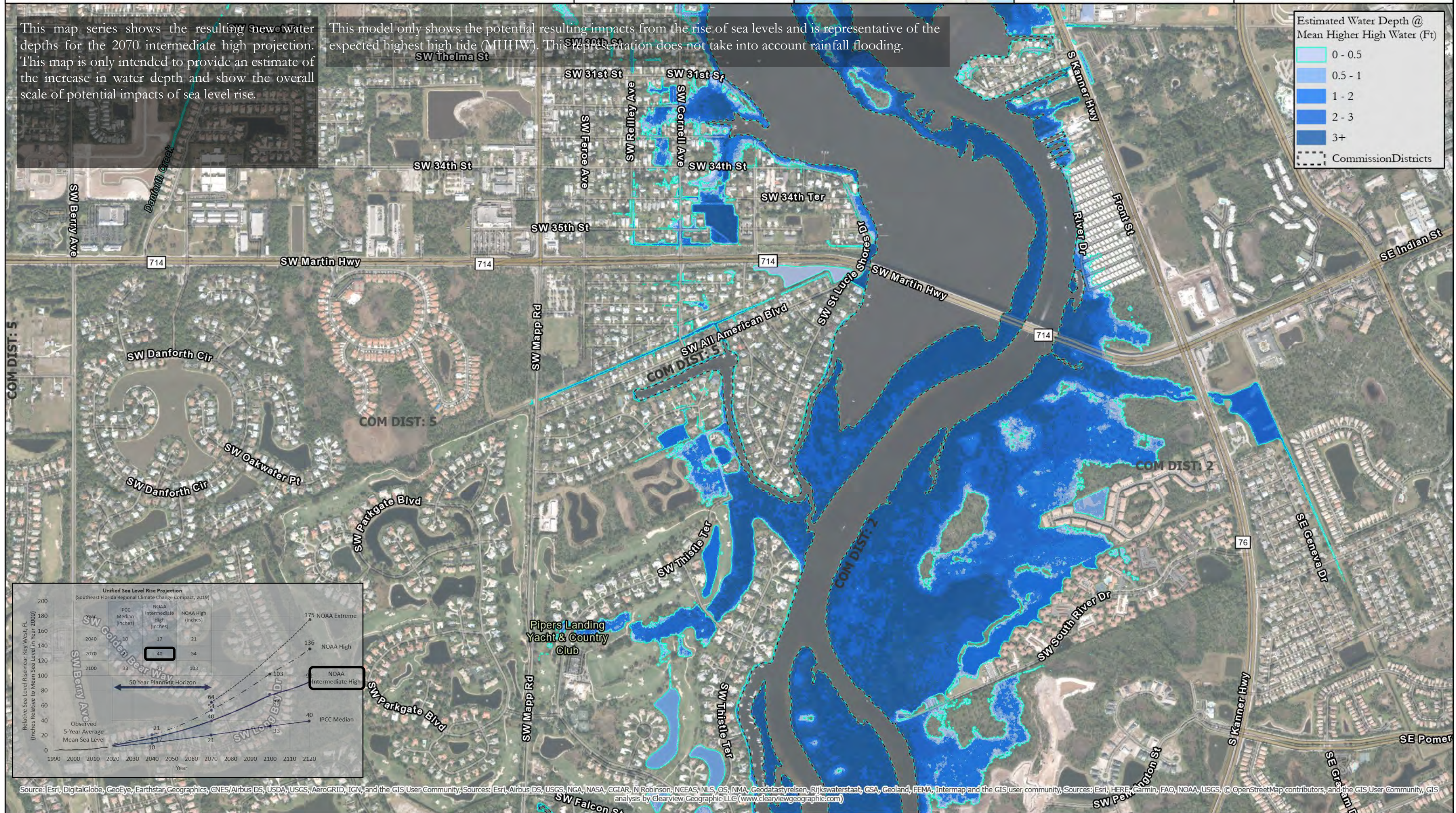
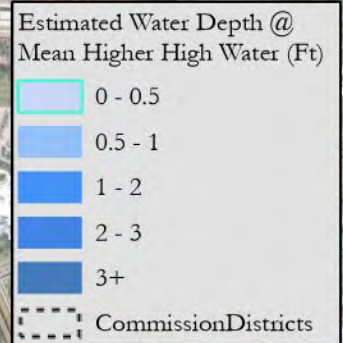
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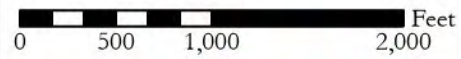


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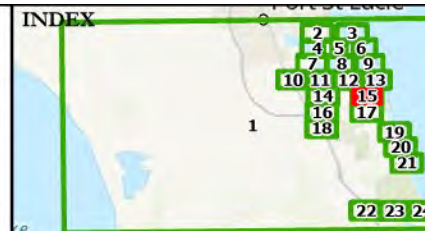
Martin County, Florida



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 Year: 2070
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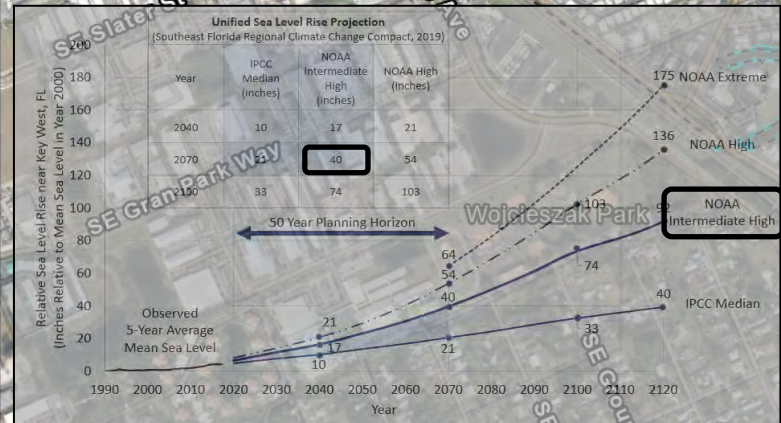
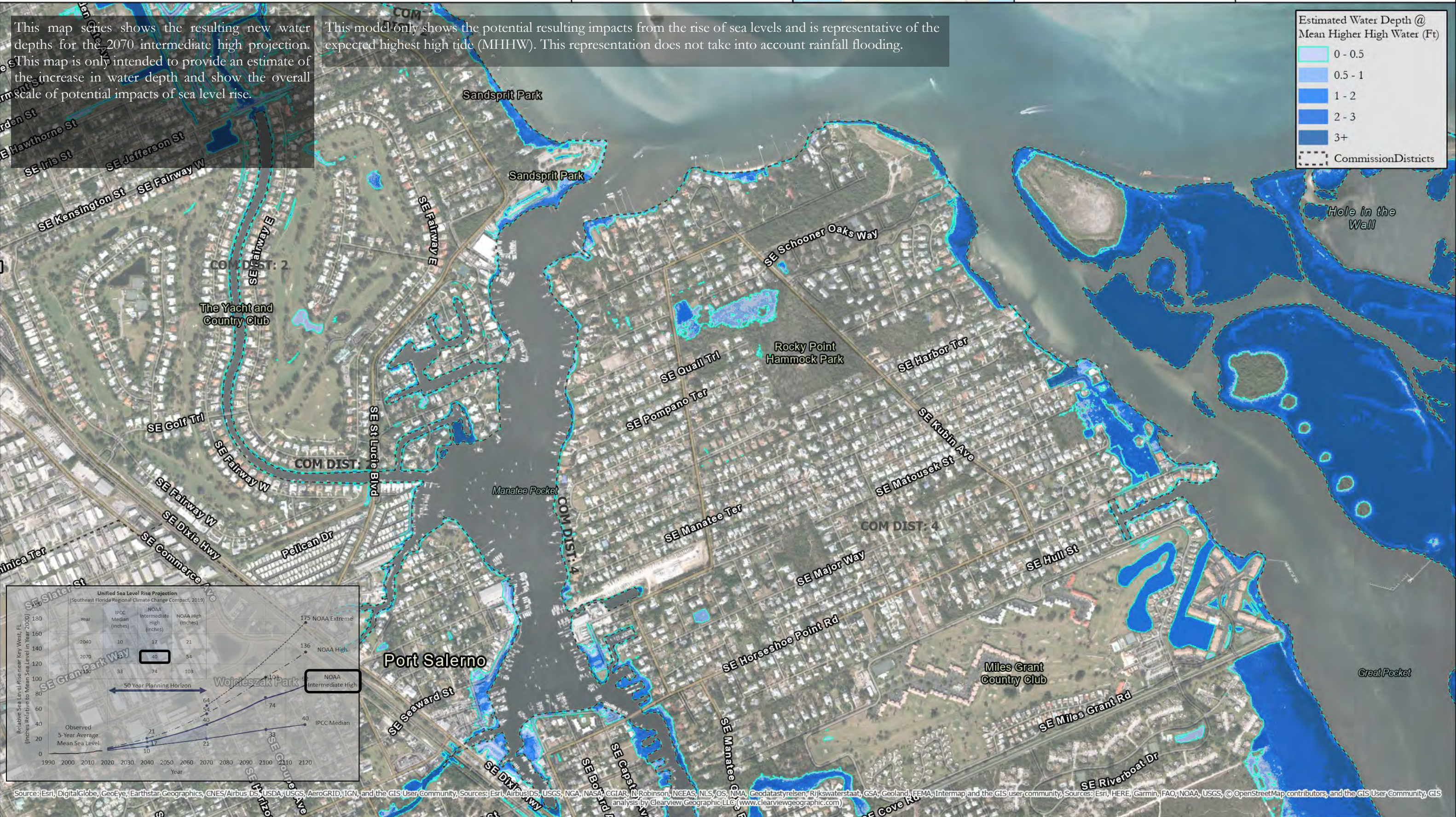
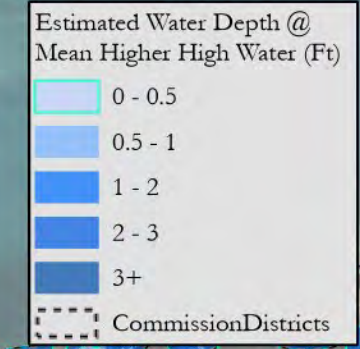
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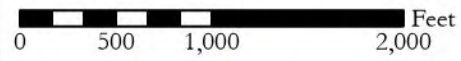


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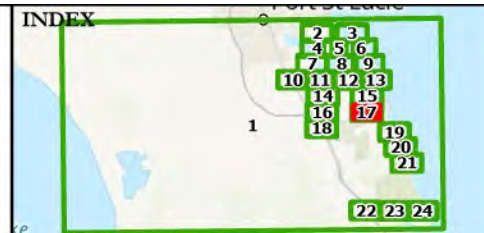
Martin County, Florida



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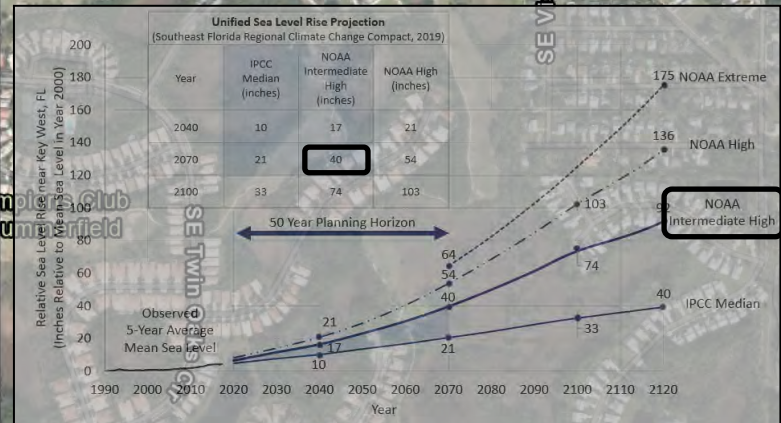
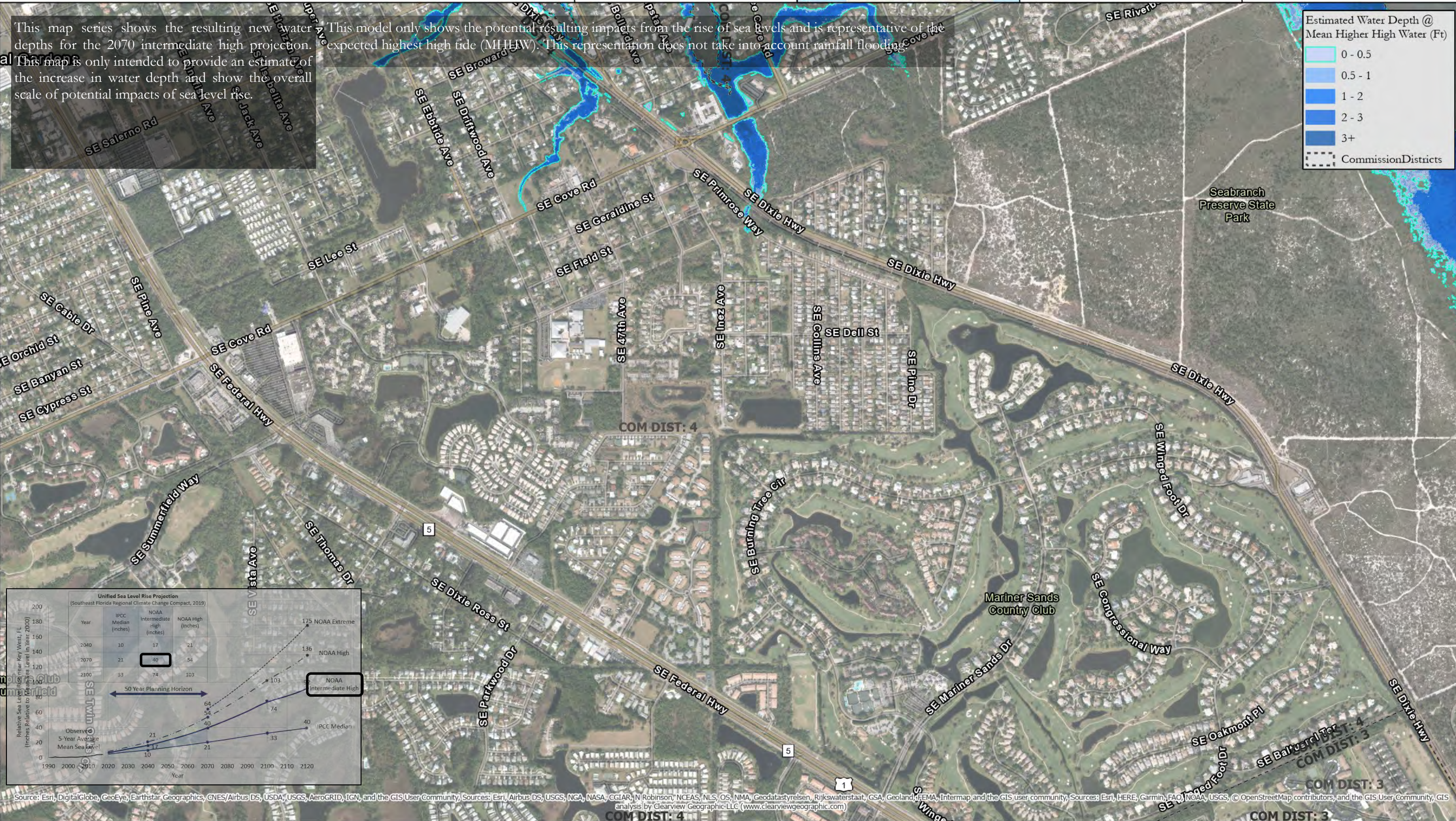
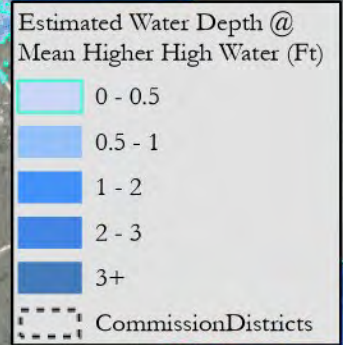
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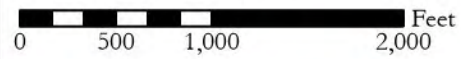


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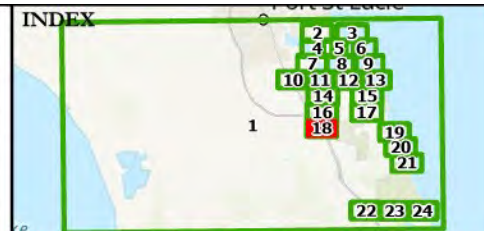
Martin County, Florida



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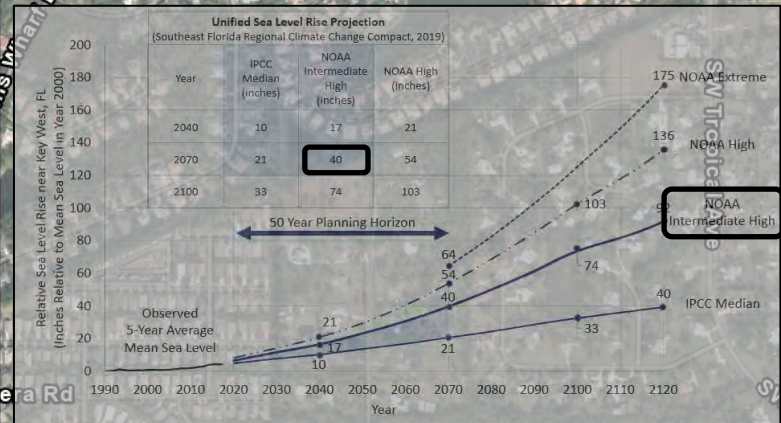
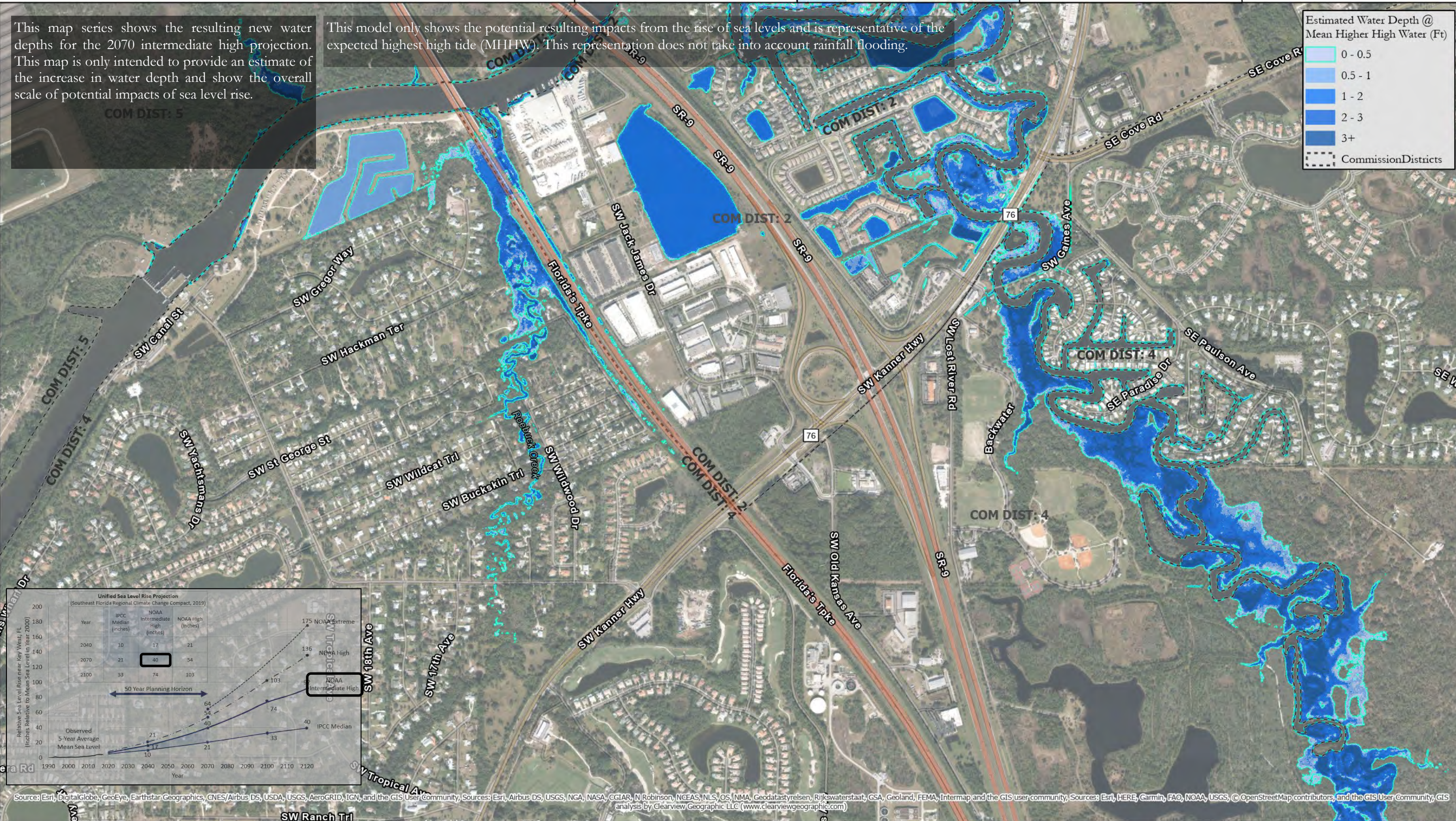
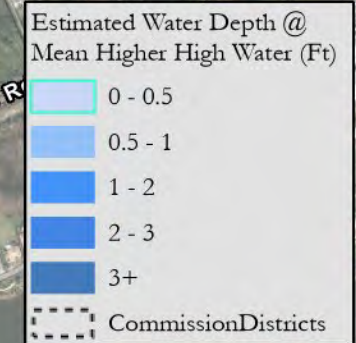
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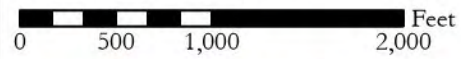


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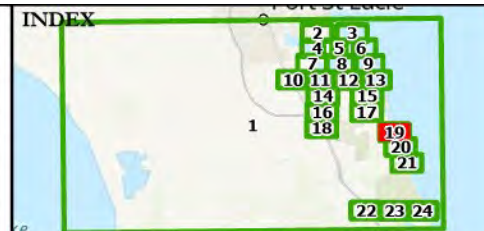
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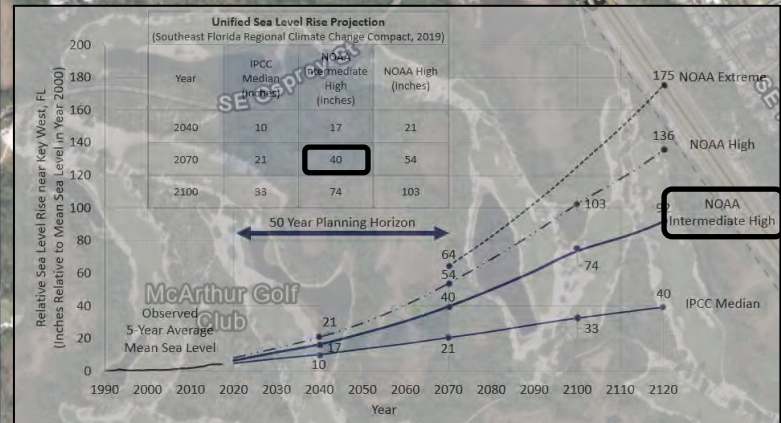
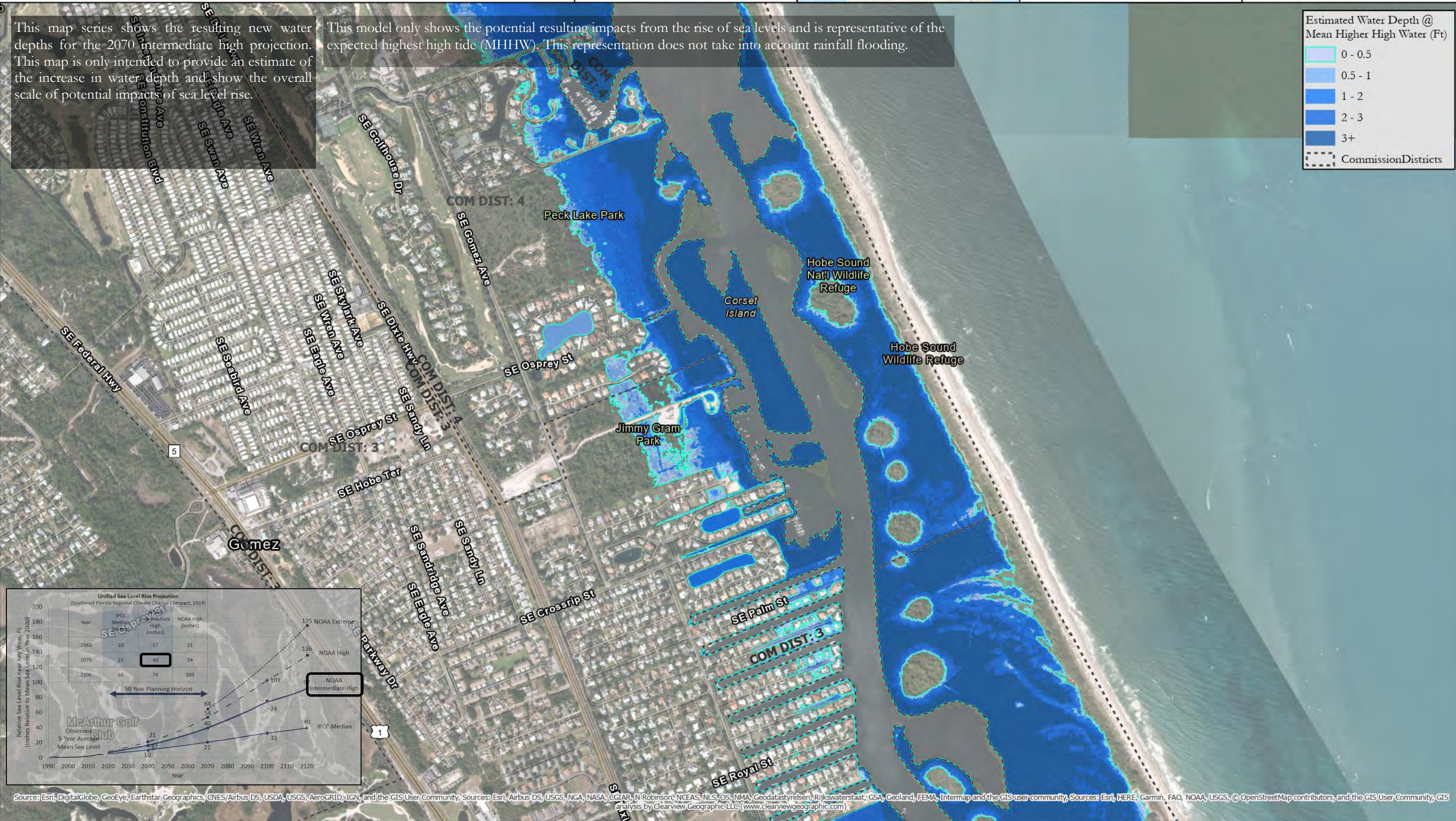
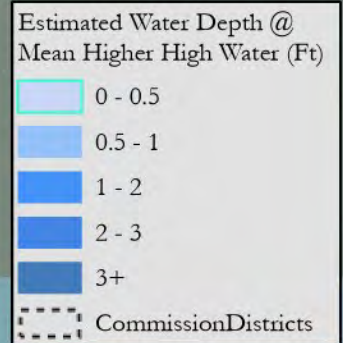
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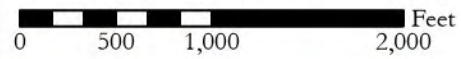


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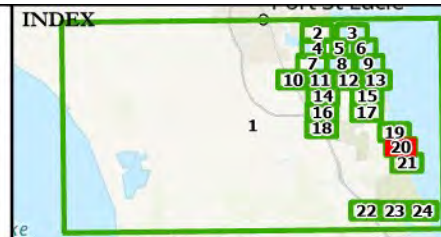
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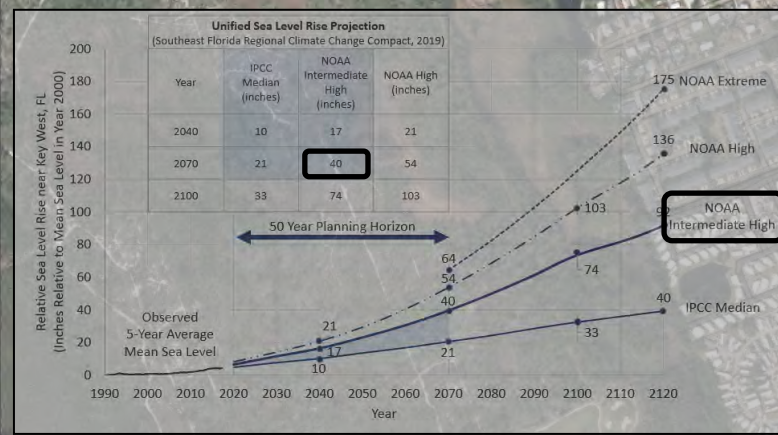
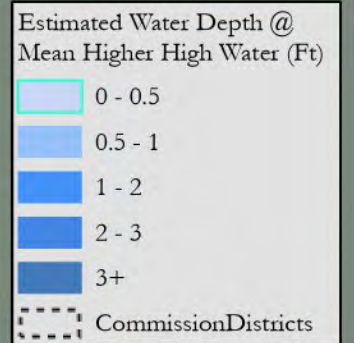
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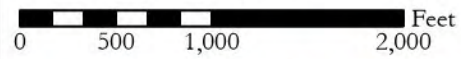


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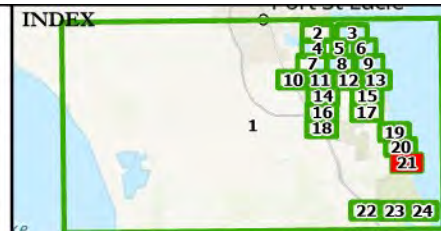
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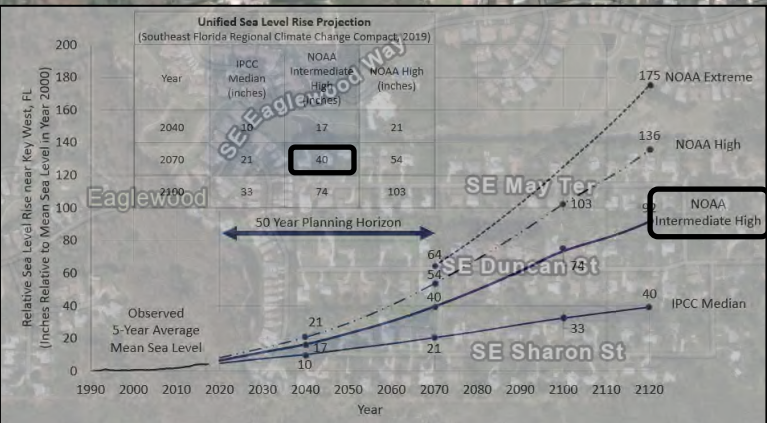
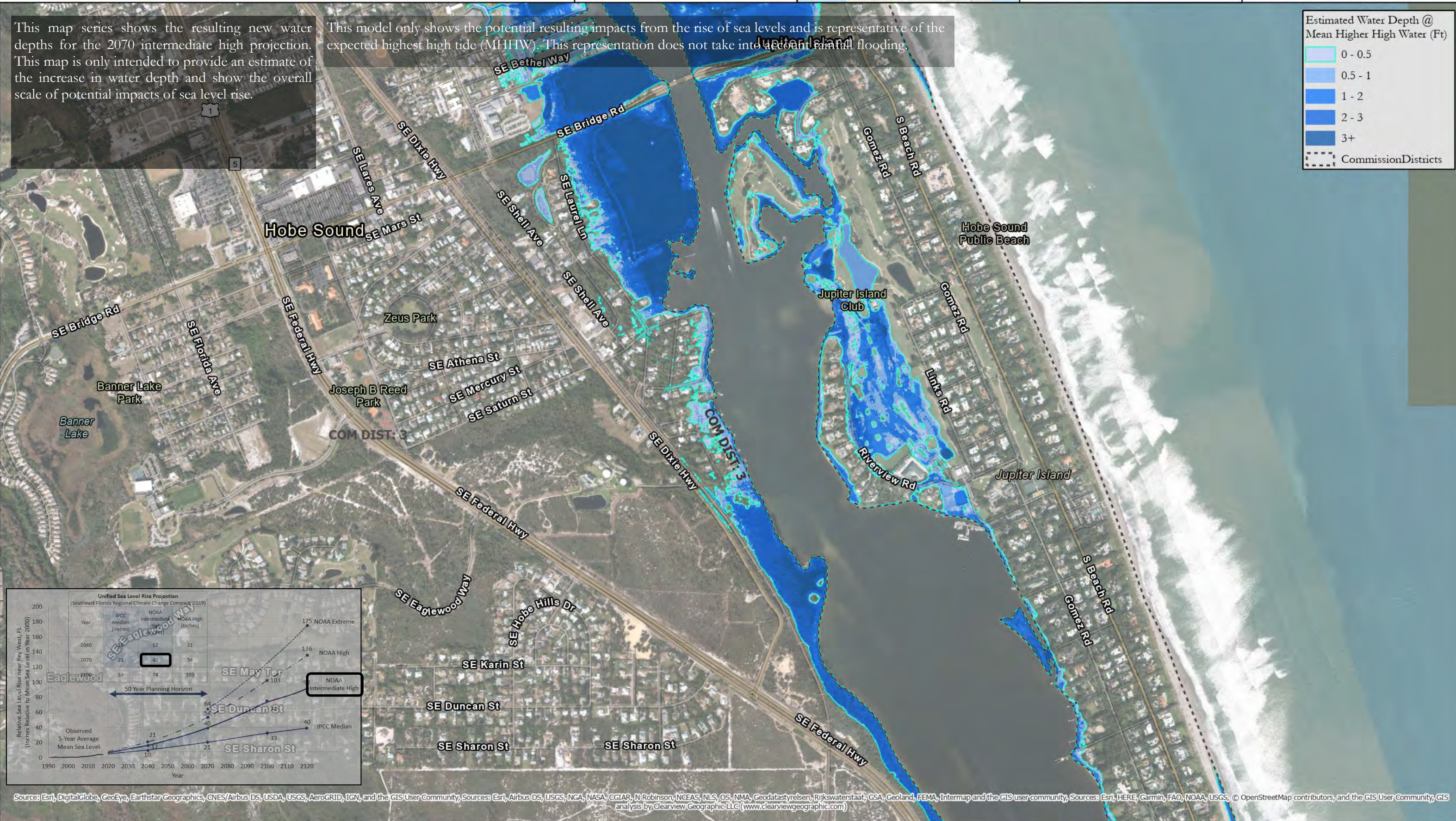
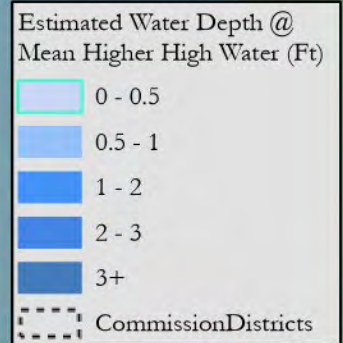
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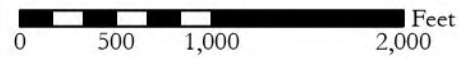


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, CSA, Geoland, FEMA, Intermap and the GIS user community; Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Generalized Inundation

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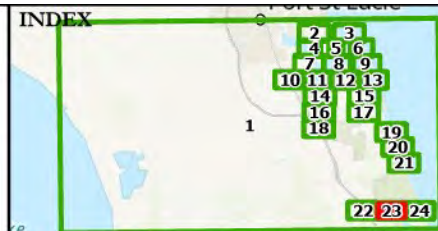
Martin County, Florida



Clark 06/03/2020 Z:/1836B



Projection: NOAA Intermediate High
 Year: 2070
 Water Rise (Inches): Approx. 40
 Scenario: MHHW
 Page: 23 of 24



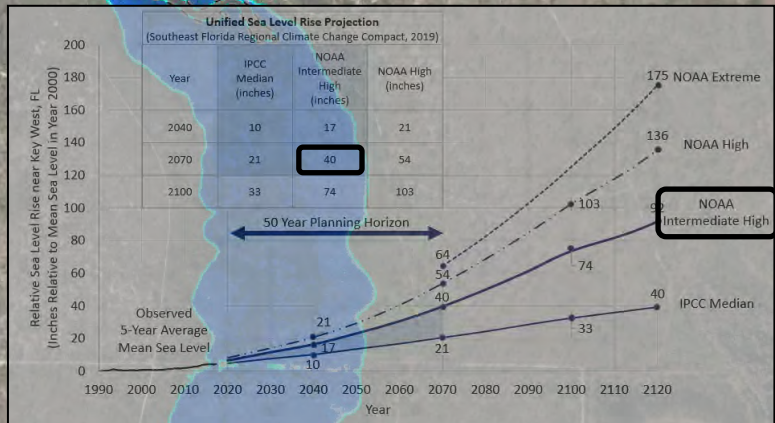
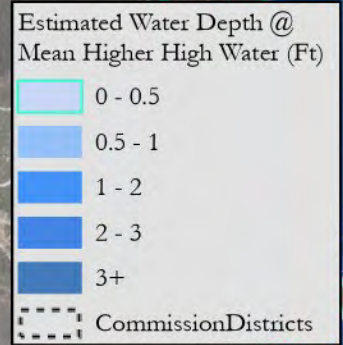
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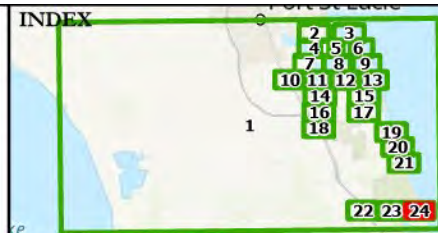
Martin County, Florida



Clark 06/03/2020 Z:/1836B



Projection: NOAA Intermediate High
 Year: 2070
 Water Rise (Inches): Approx. 40
 Scenario: MHHW
 Page: 24 of 24



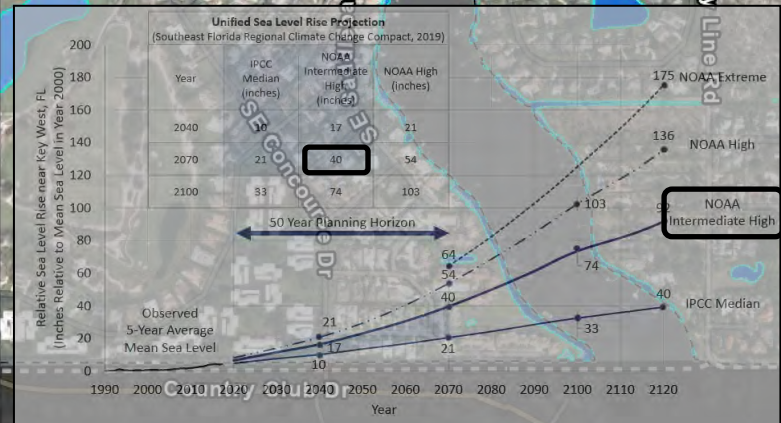
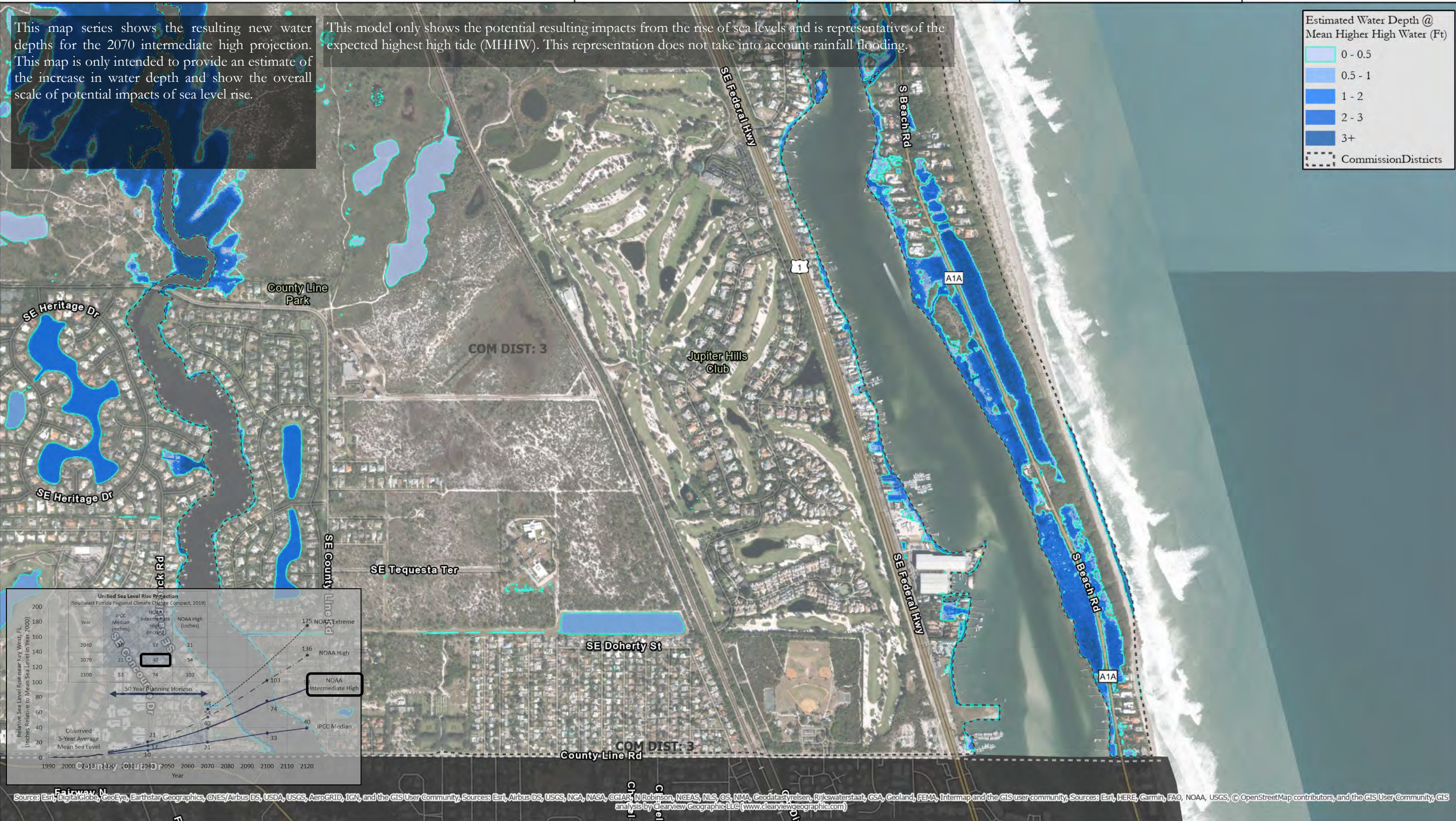
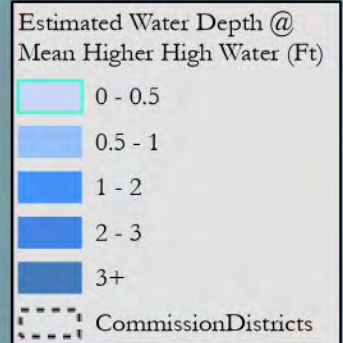
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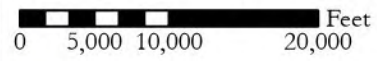
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Stormwater Infrastructure Vulnerability

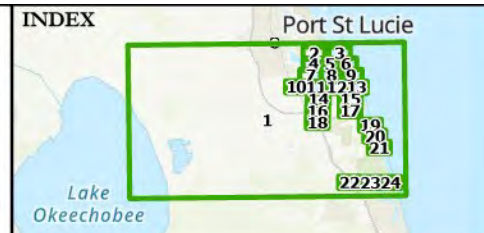
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Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
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Page: 1 of 24



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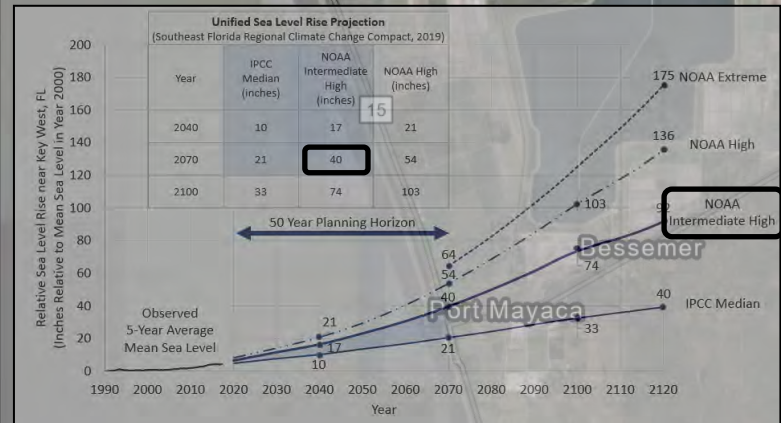
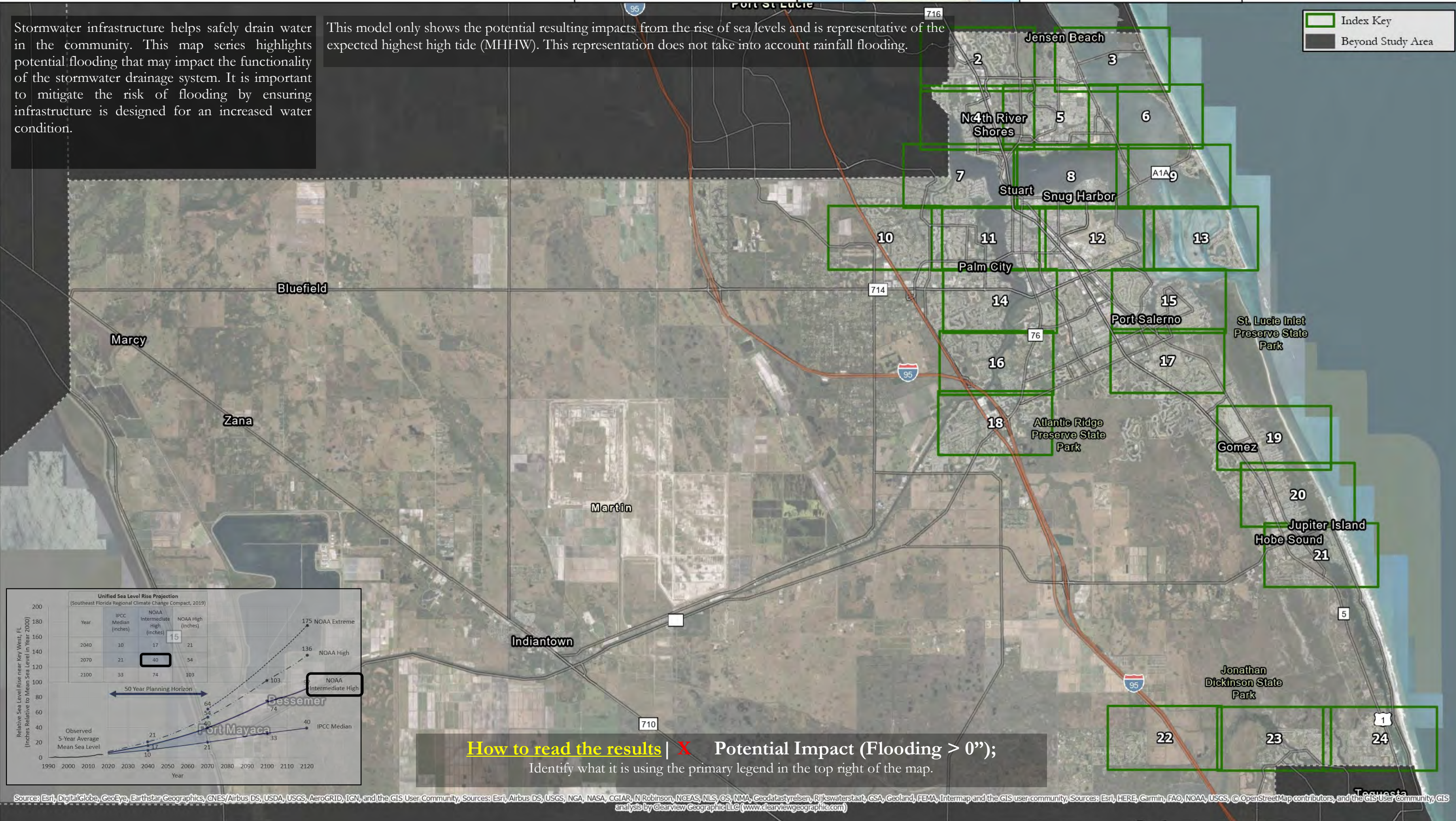


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Index Key
 Index Key
 Beyond Study Area

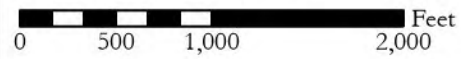


How to read the results | X Potential Impact (Flooding > 0");
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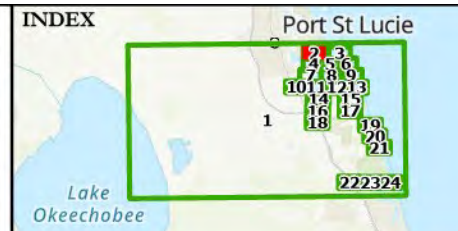
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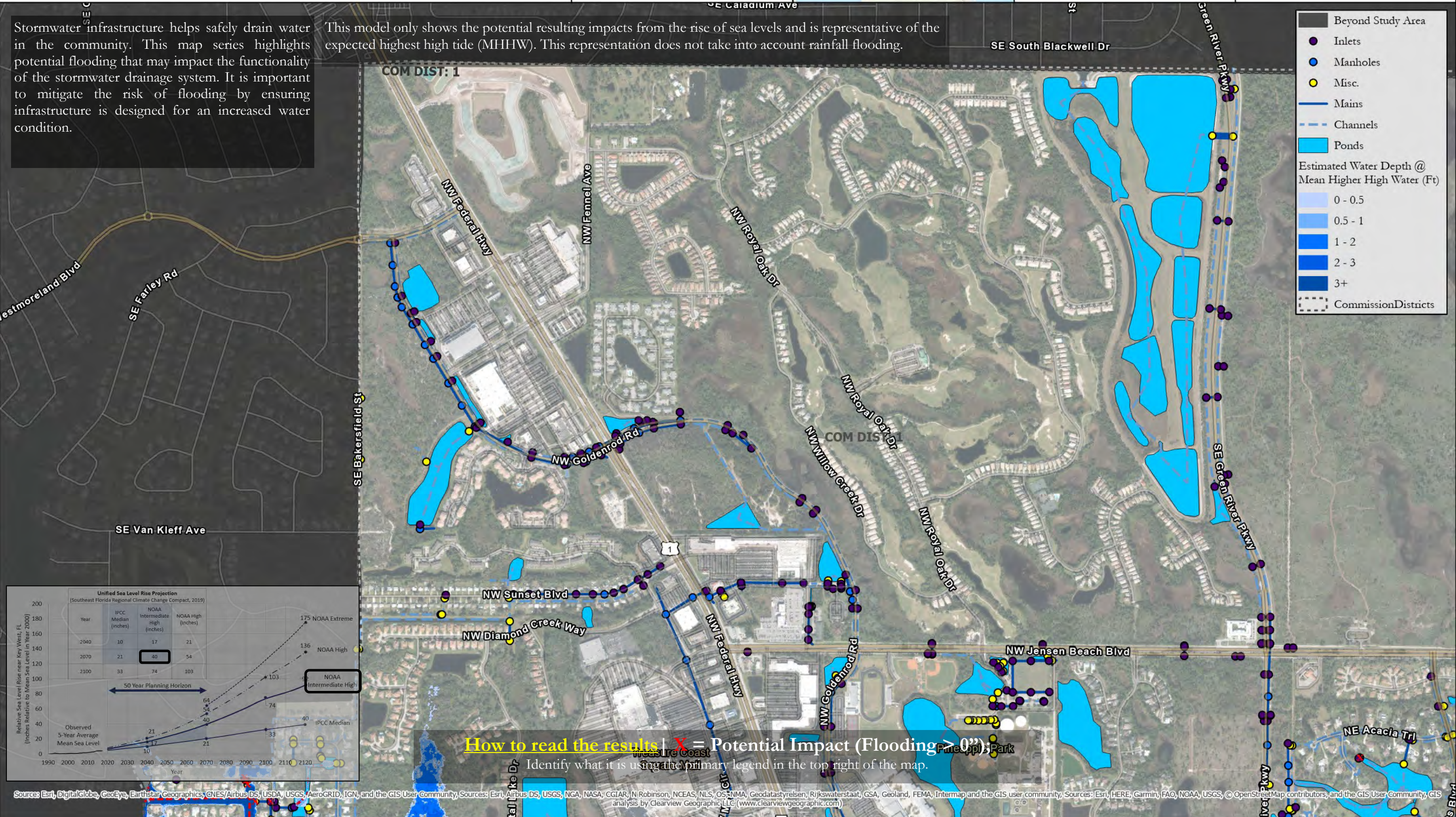
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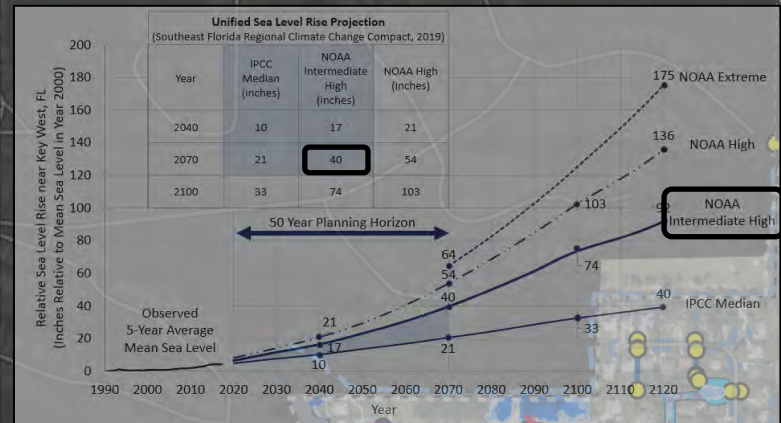
Beyond Study Area

- Inlets
- Manholes
- Misc.
- Mains
- Channels
- Ponds

Estimated Water Depth @ Mean Higher High Water (Ft)

- 0 - 0.5
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- 3+

Commission Districts

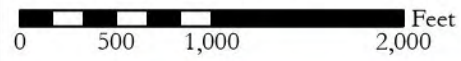


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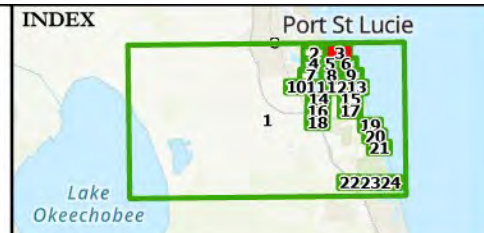
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Water Rise (Inches): Approx. 40
Scenario: MHHW
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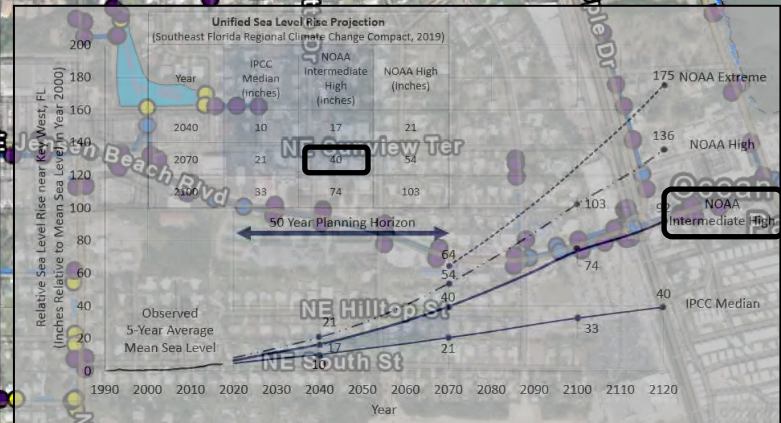
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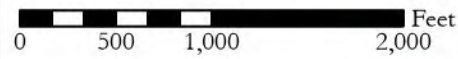
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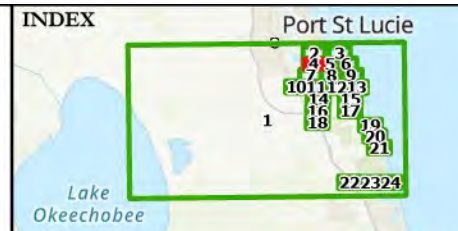
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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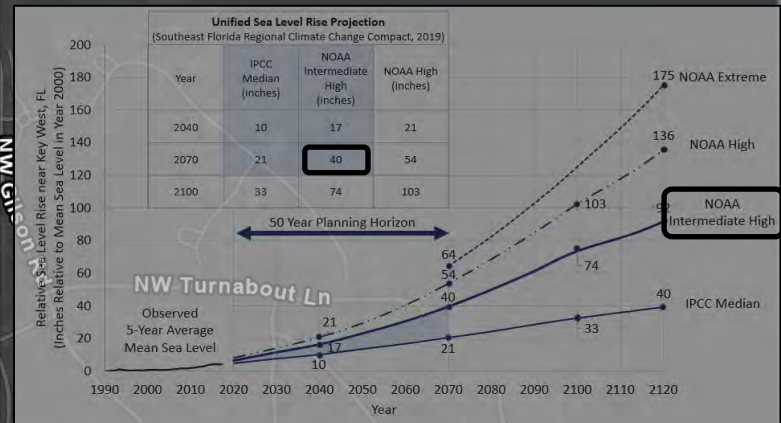
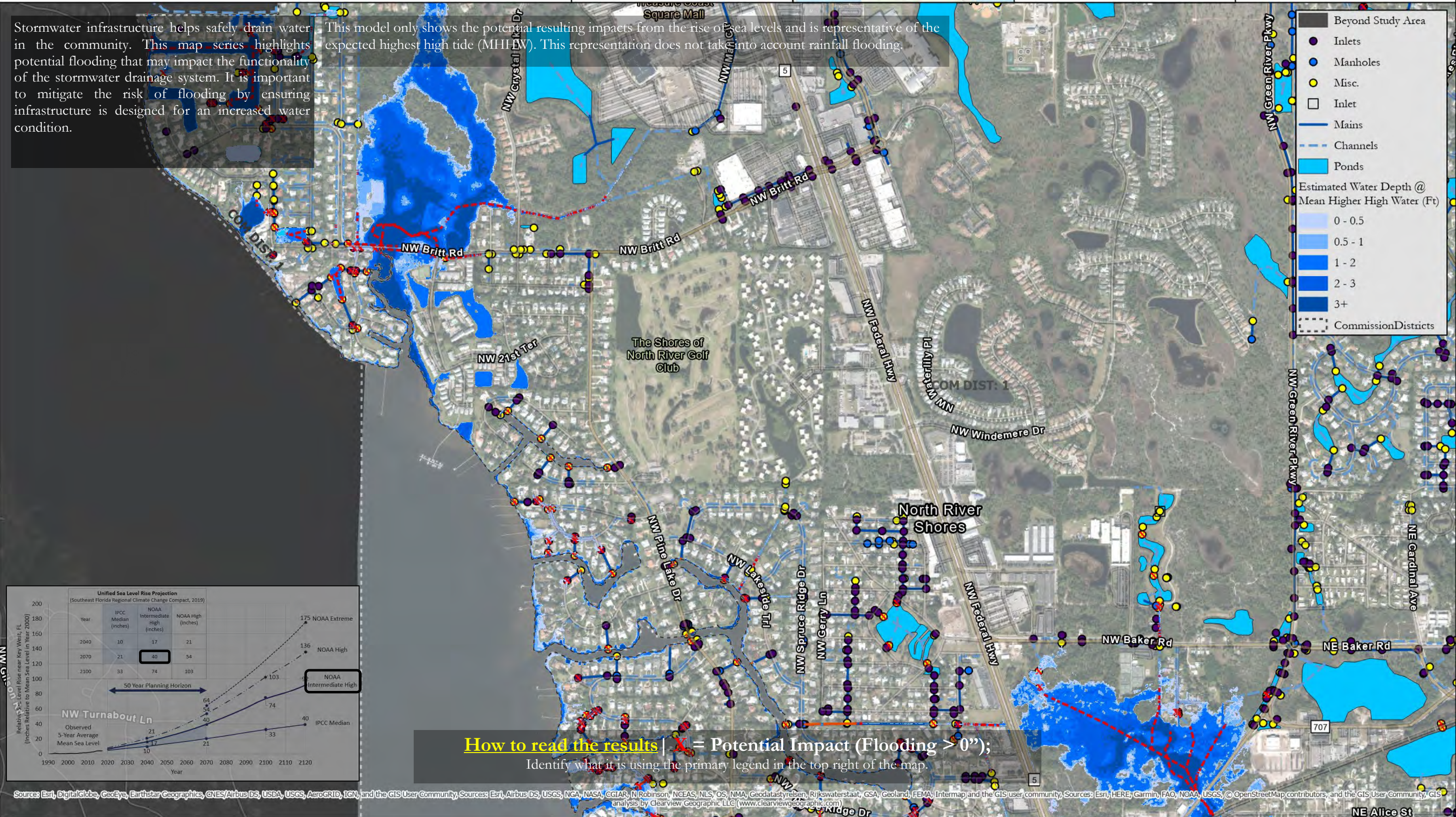


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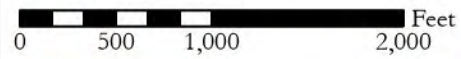
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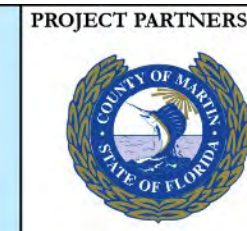
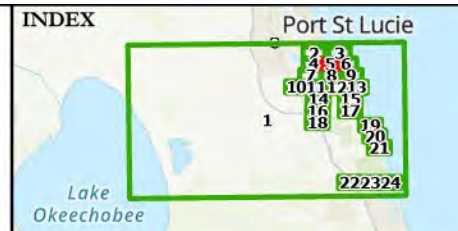
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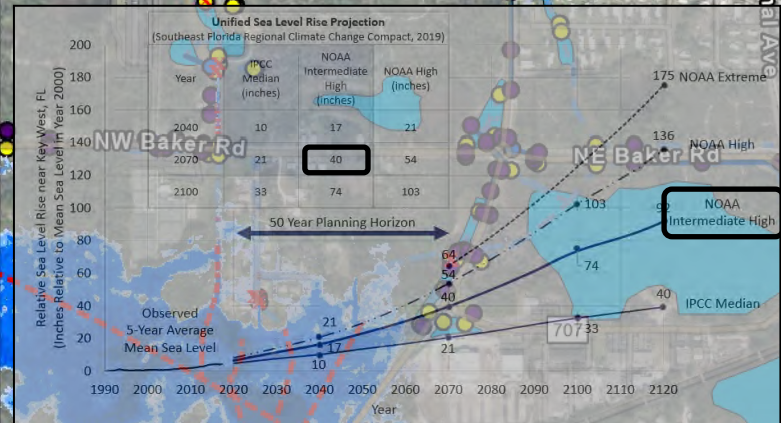
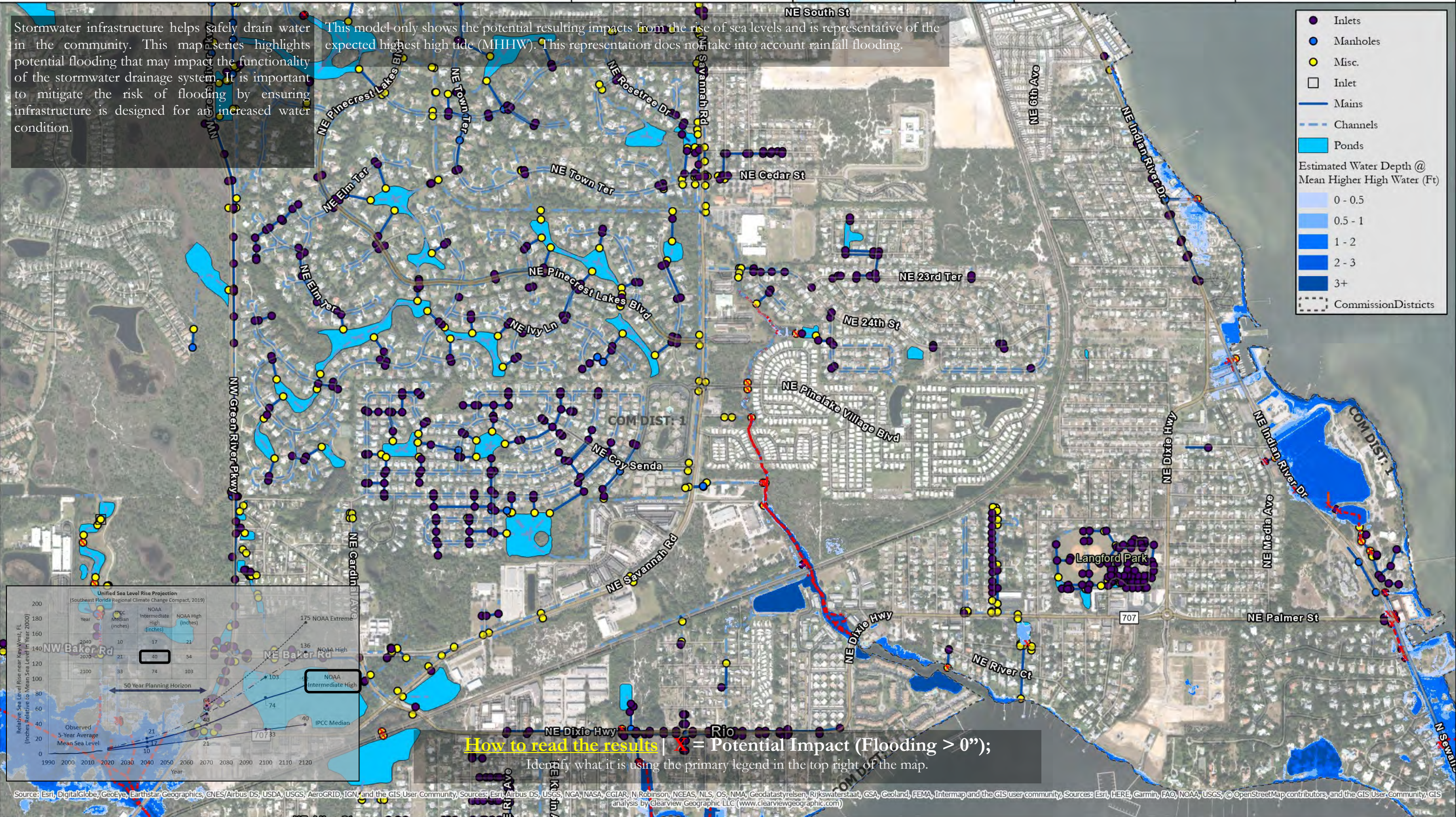


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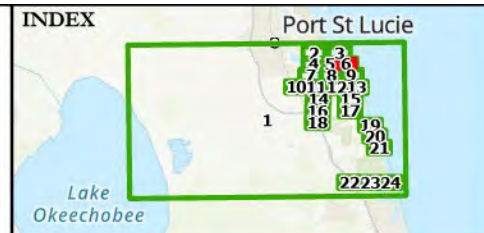
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Scenario: MHHW
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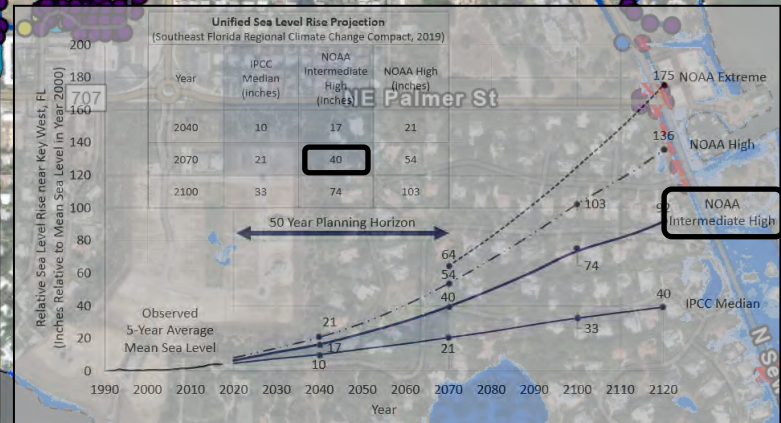
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- Inlets
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 - Misc.
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 - Ponds
- Estimated Water Depth @ Mean Higher High Water (Ft)
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 - 1 - 2
 - 2 - 3
 - 3+
- Commission Districts

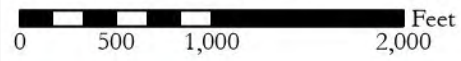


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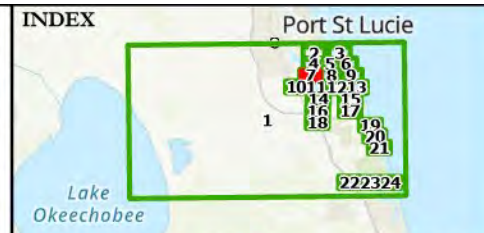
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Scenario: MHHW
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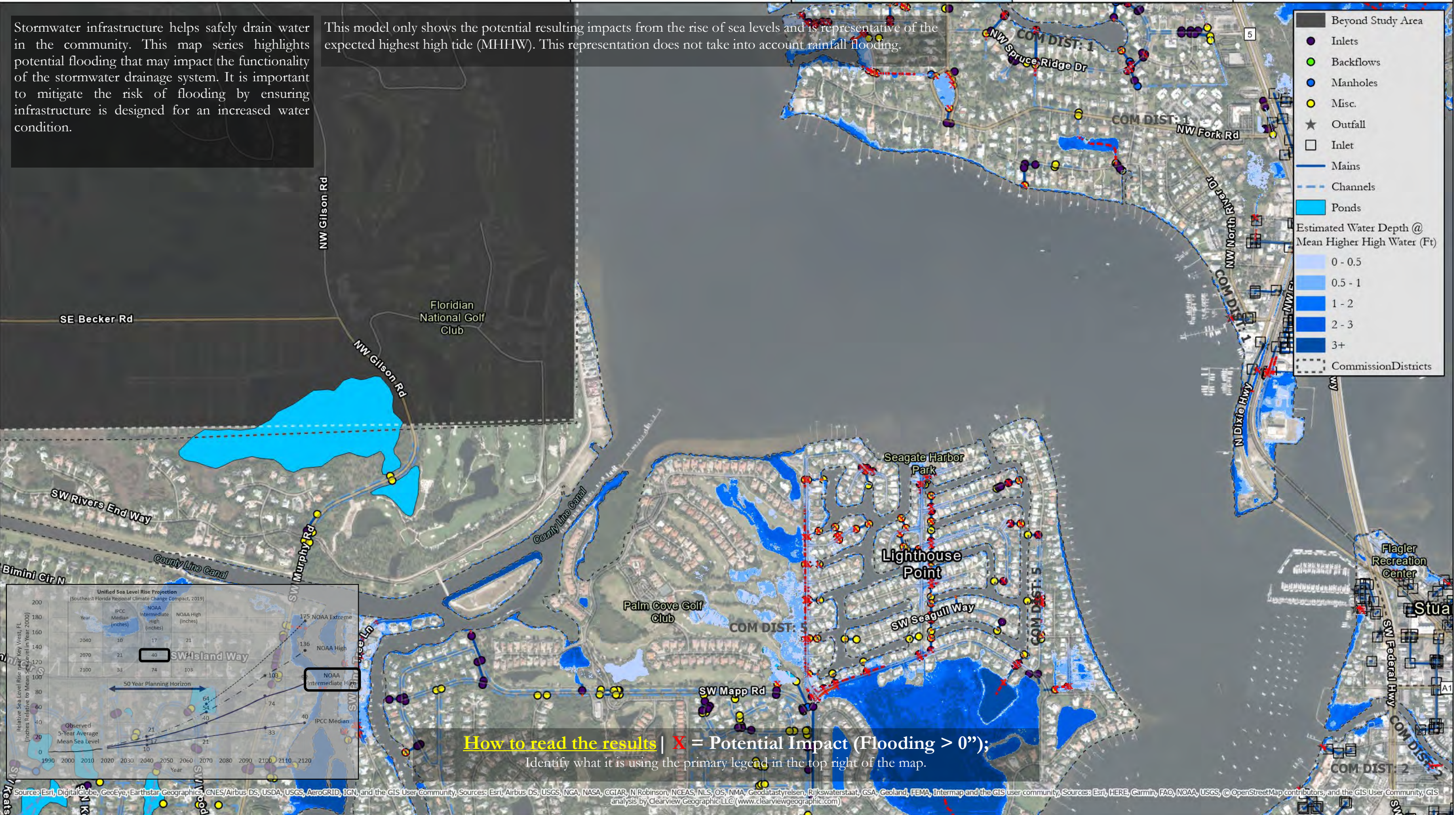
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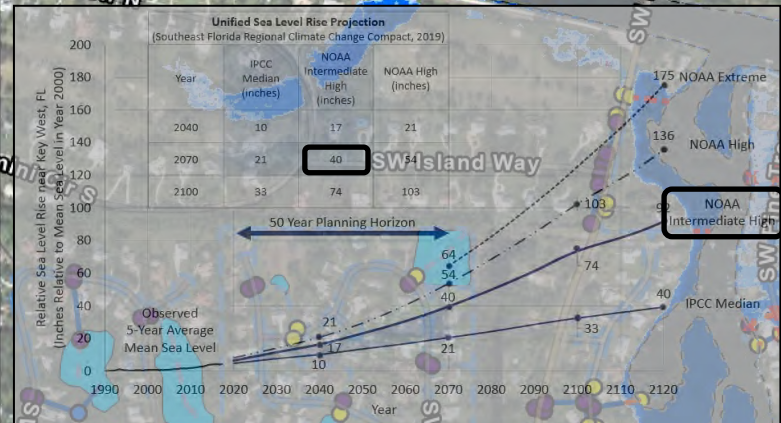
Beyond Study Area

- Inlets
- Backflows
- Manholes
- Misc.
- Outfall
- Inlet
- Mains
- Channels
- Ponds

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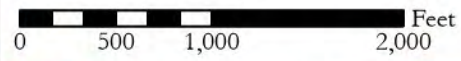


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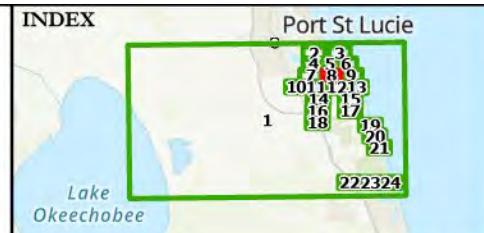
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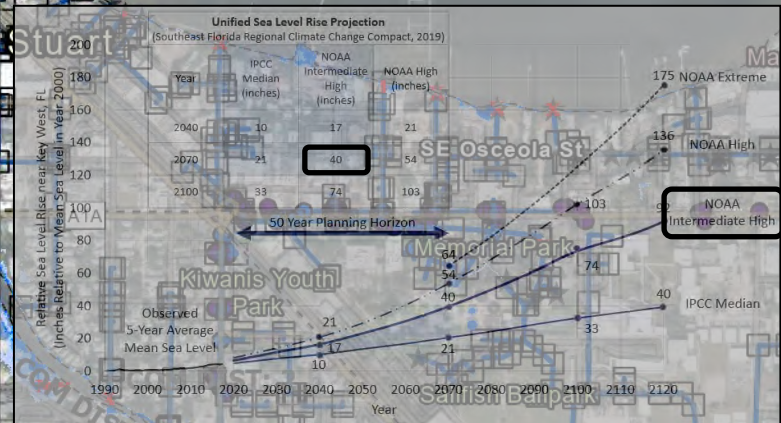
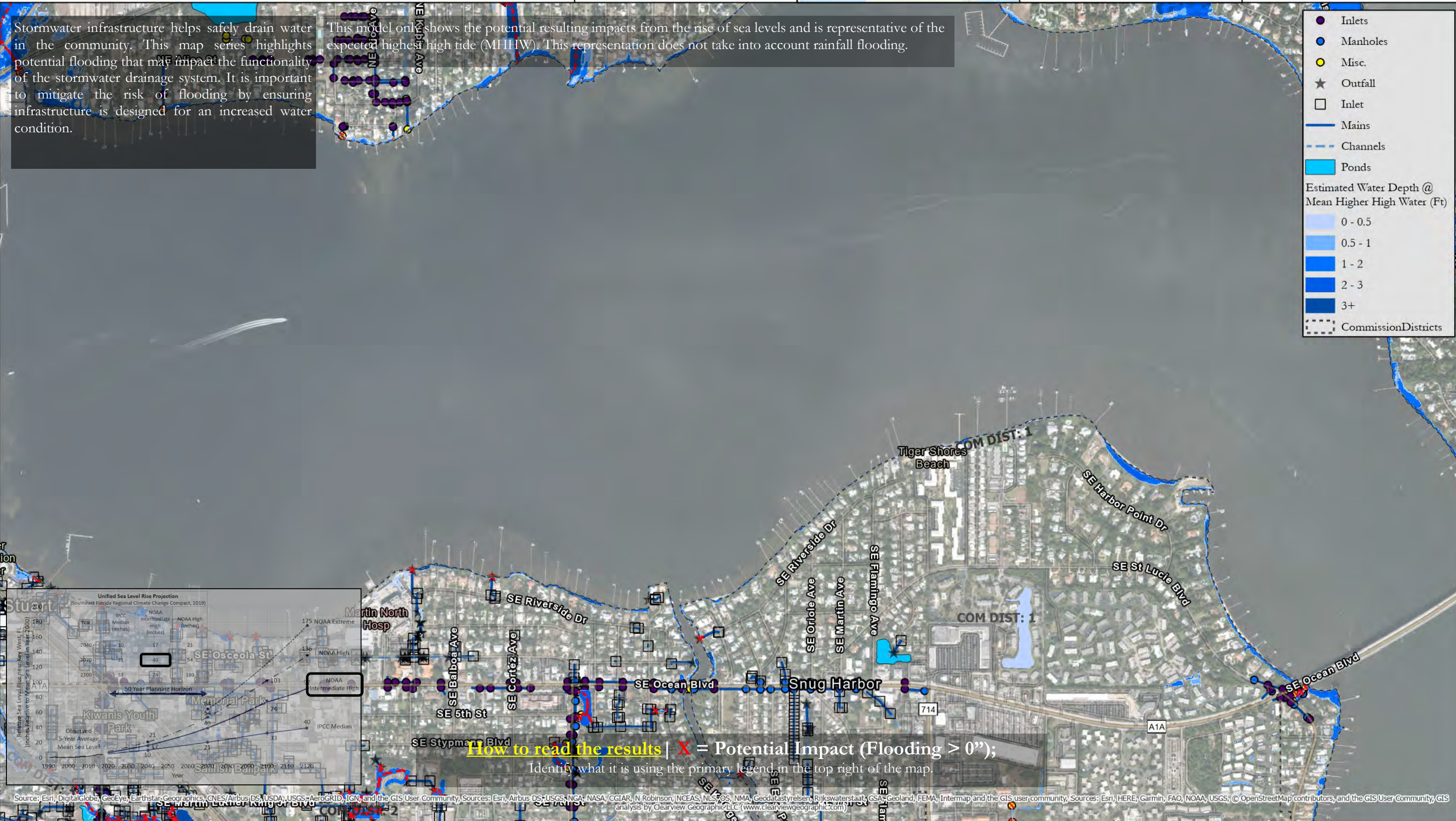


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 - 2 - 3
 - 3+
- CommissionDistricts



How to read the results | **X** = Potential Impact (Flooding > 0"); Identify what it is using the primary legend in the top right of the map.

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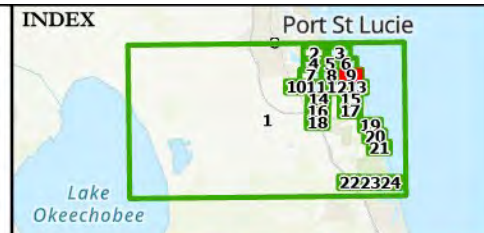
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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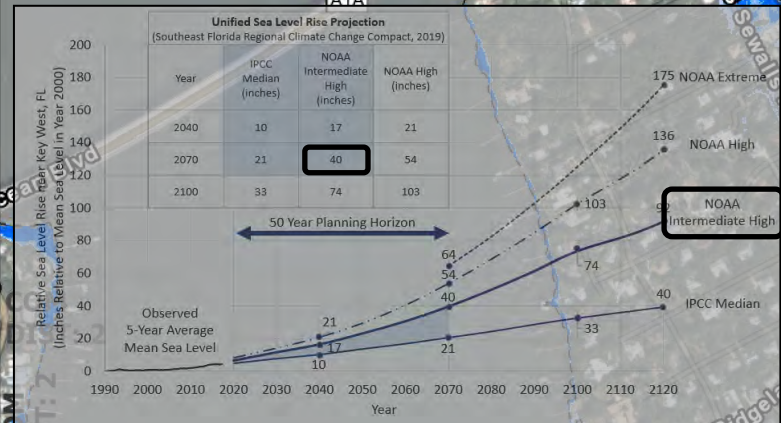
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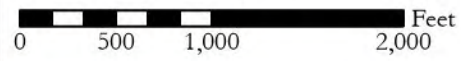


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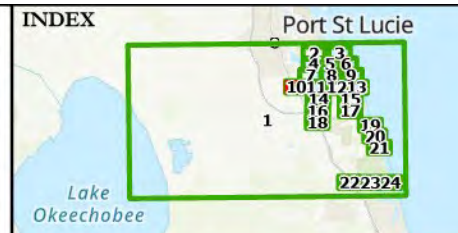
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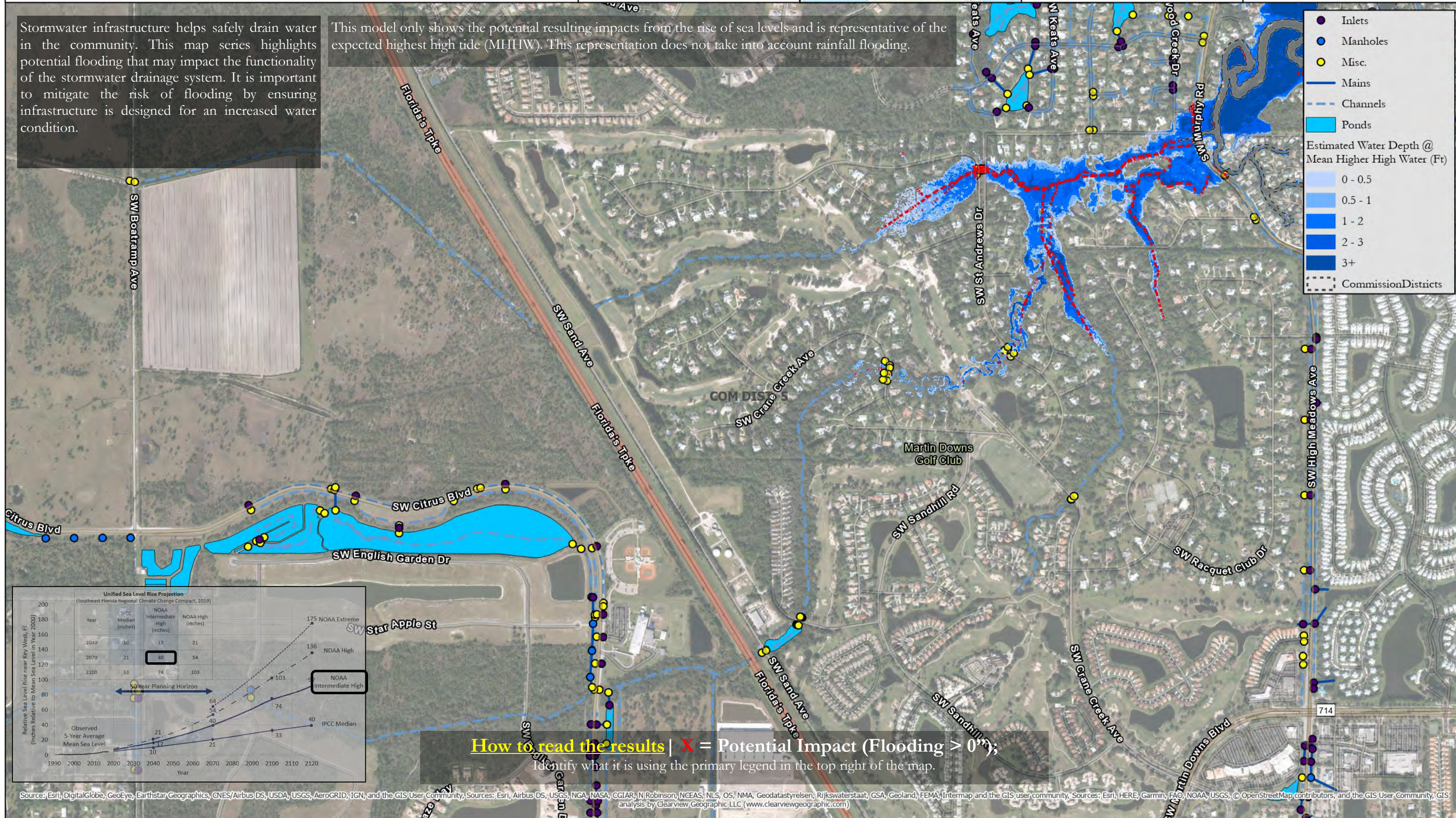
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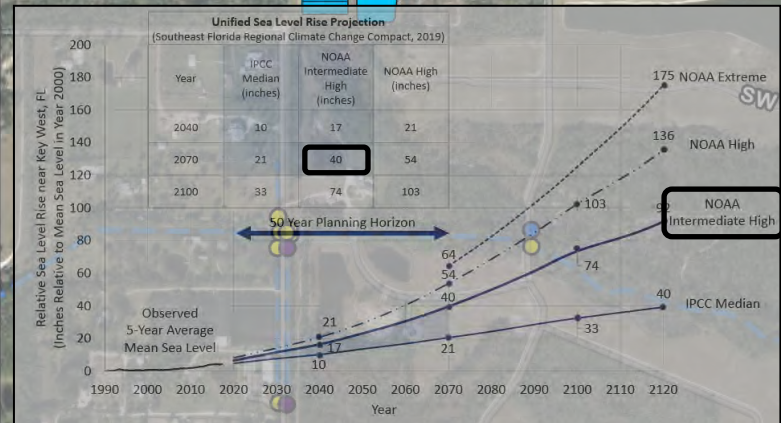


- Inlets
- Manholes
- Misc.
- Mains
- - - Channels
- Ponds

Estimated Water Depth @ Mean Higher High Water (Ft)

- 0 - 0.5
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- 2 - 3
- 3+

Commission Districts



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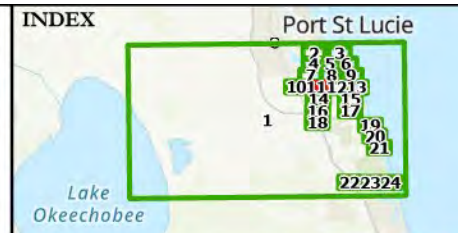
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 11 of 24



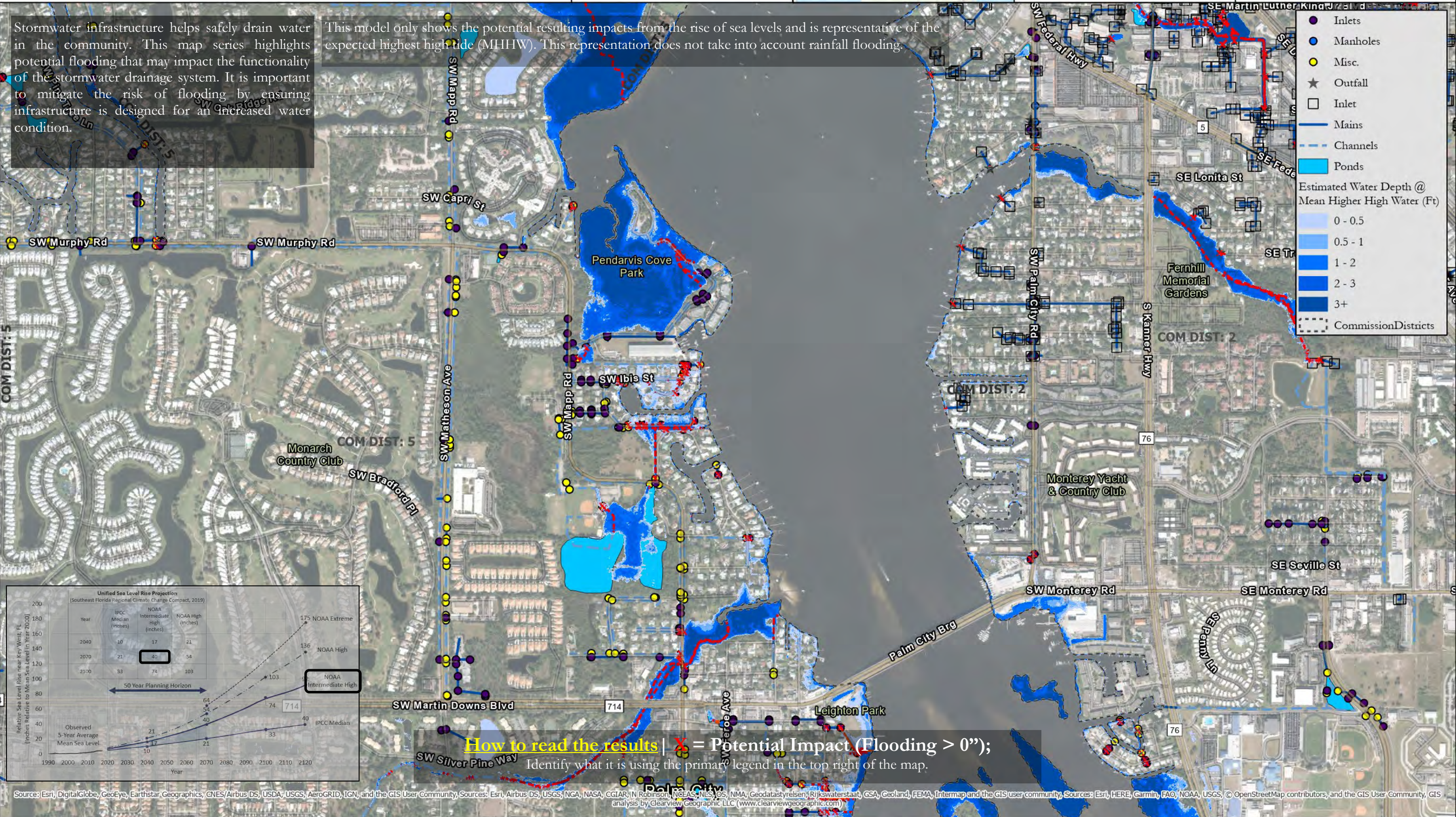
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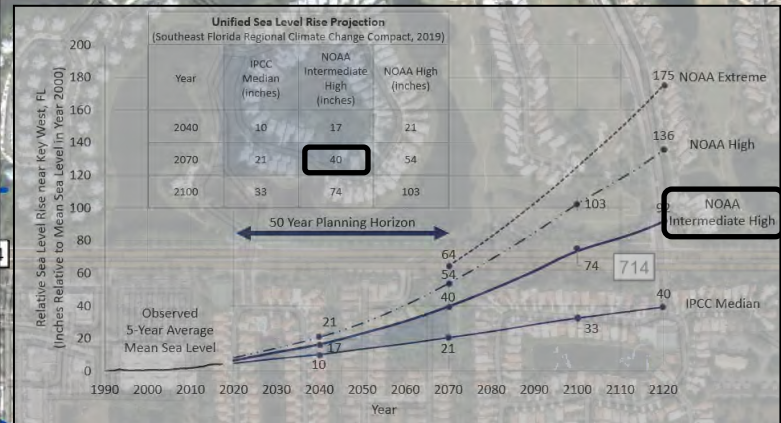
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 - Inlet
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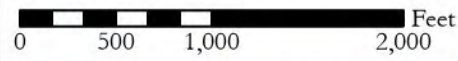


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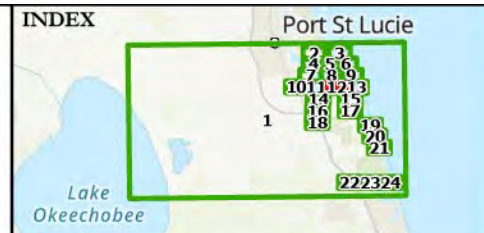
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
Scenario: MHHW
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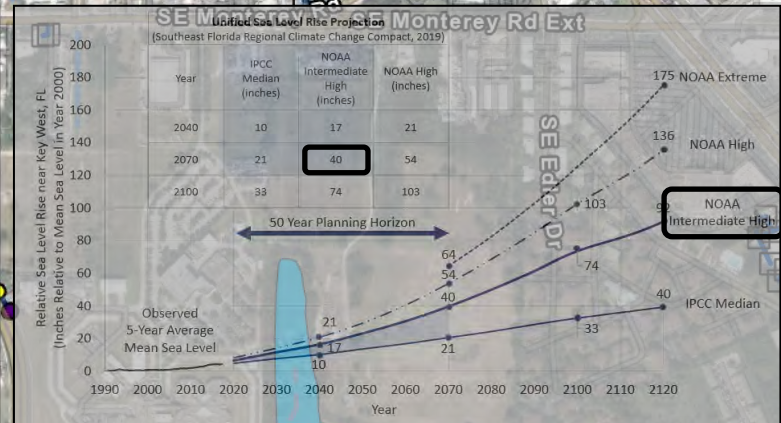
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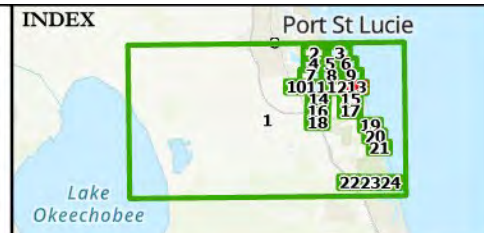
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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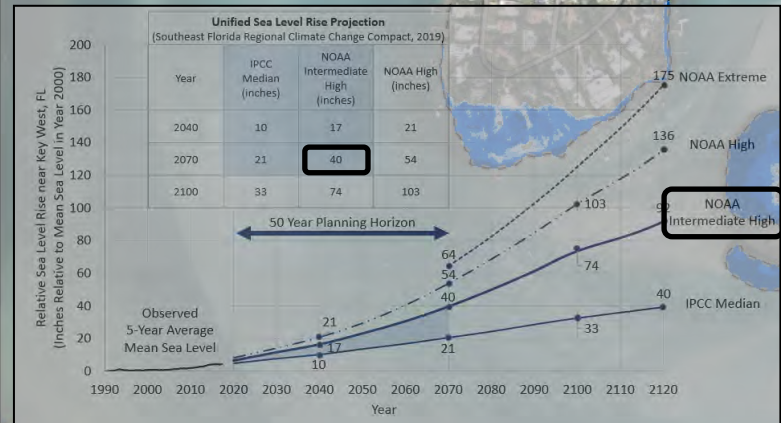
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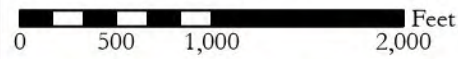
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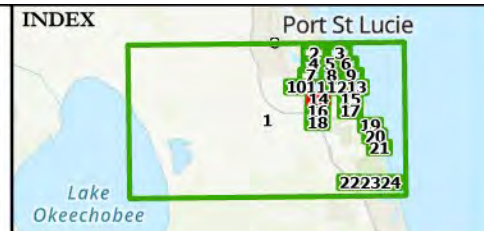
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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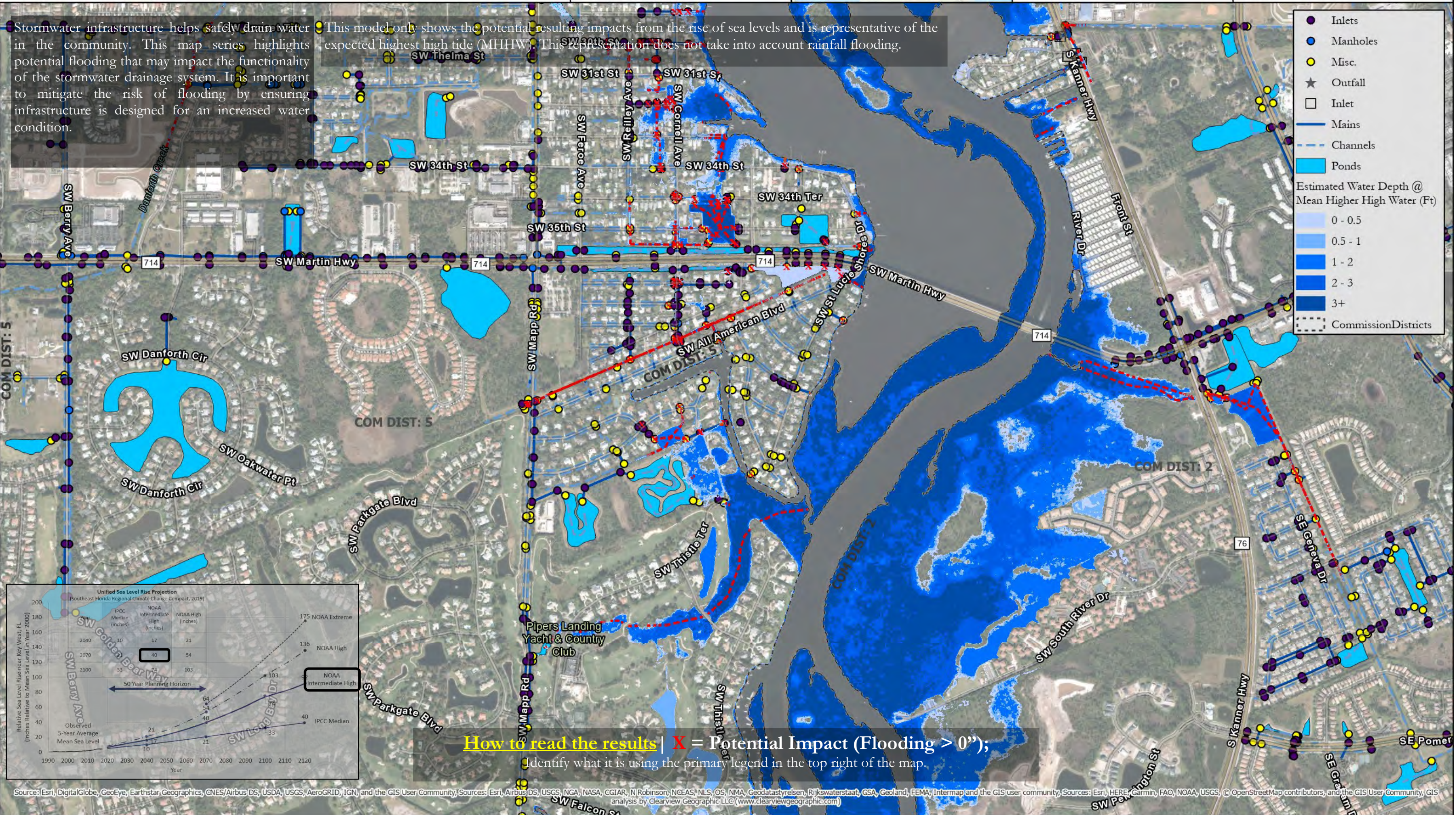
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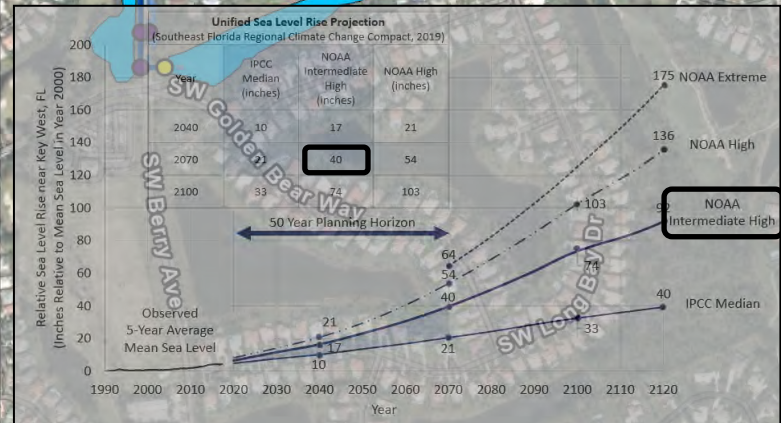
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- Inlets
 - Manholes
 - Misc.
 - ★ Outfall
 - Inlet
 - Mains
 - - - Channels
 - Ponds
- Estimated Water Depth @ Mean Higher High Water (Ft)
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3+
- Commission Districts

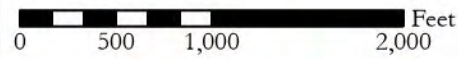


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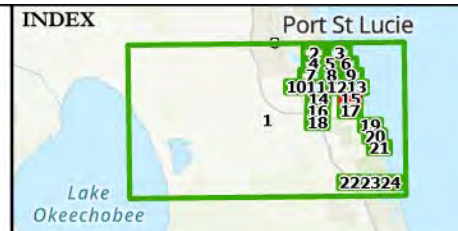
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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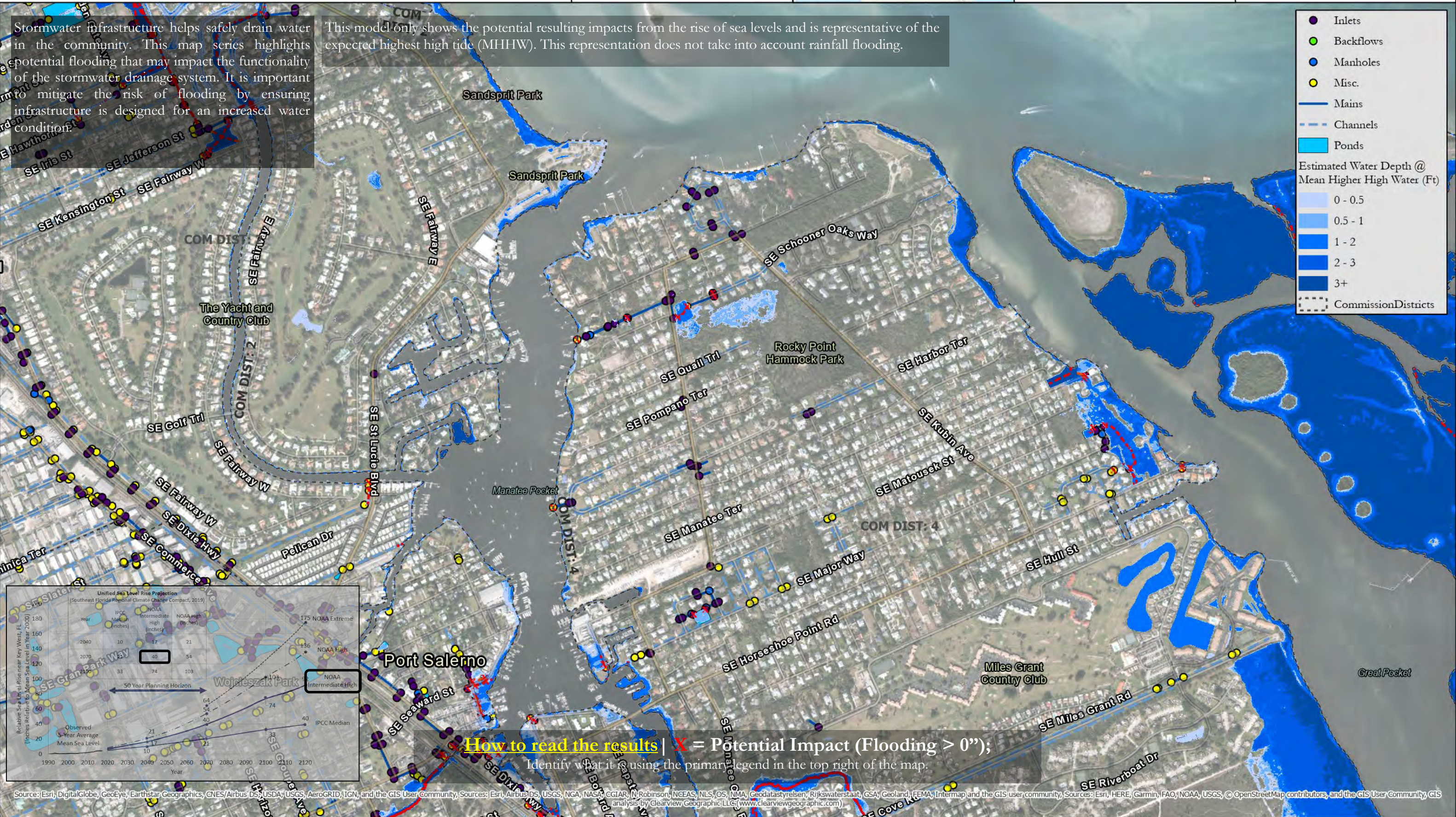
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- Inlets
 - Backflows
 - Manholes
 - Misc.
 - Mains
 - - - Channels
 - Ponds
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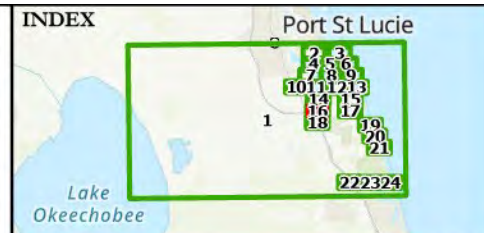
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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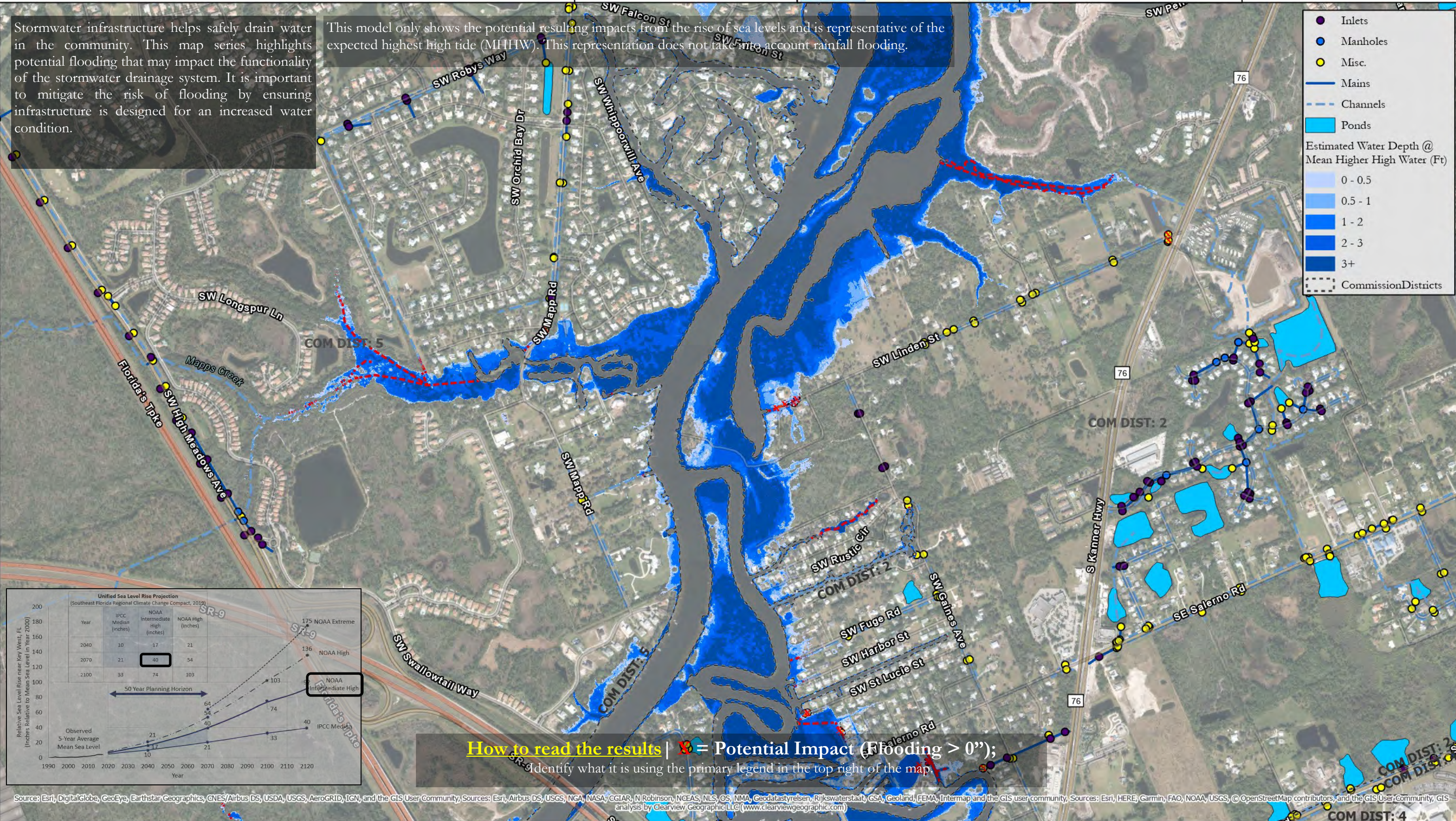
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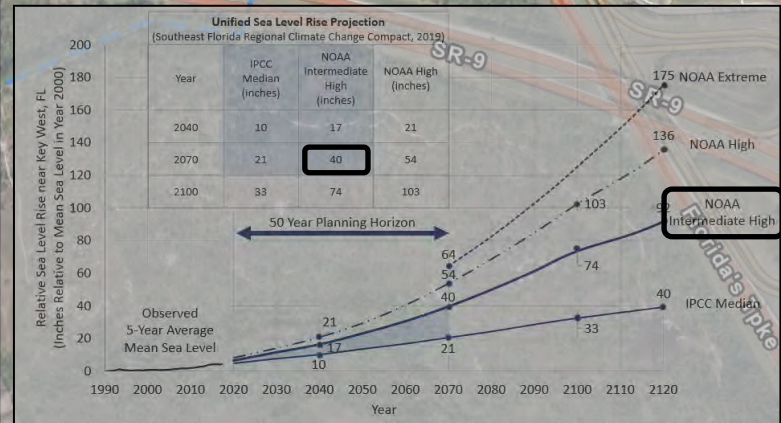
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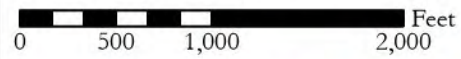
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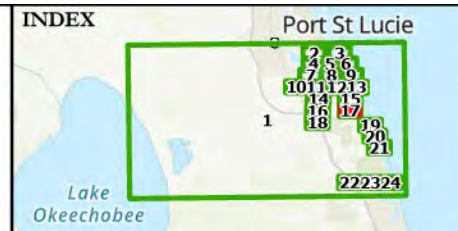
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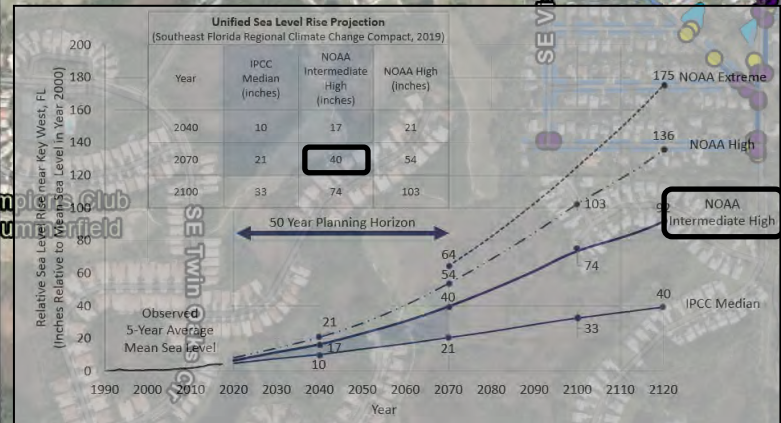
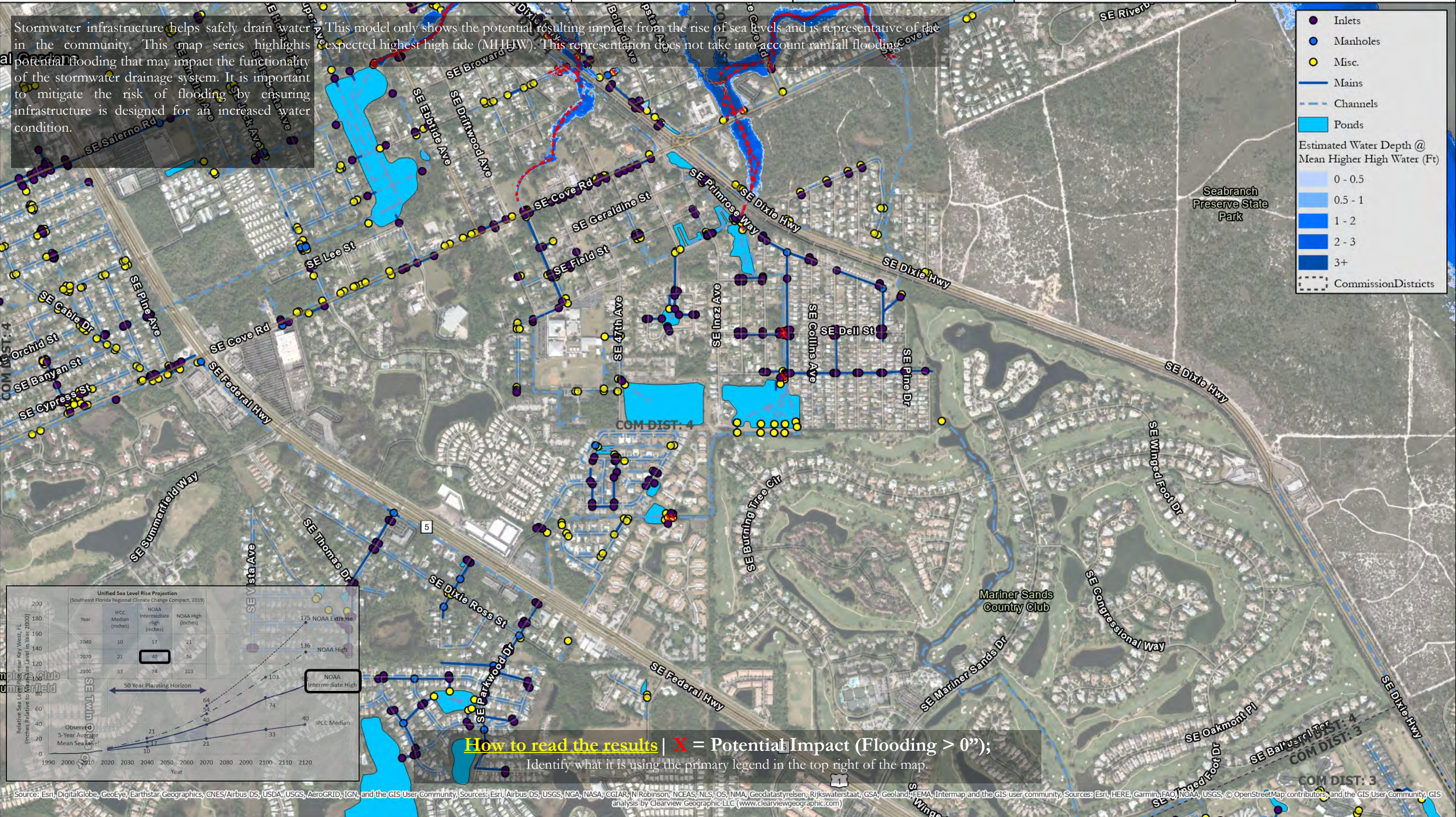
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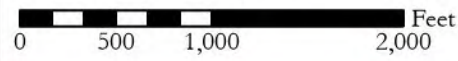


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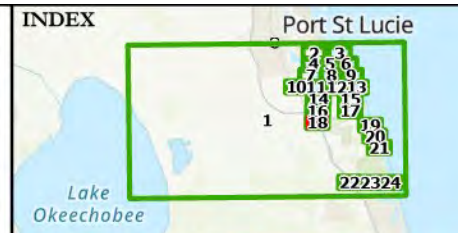
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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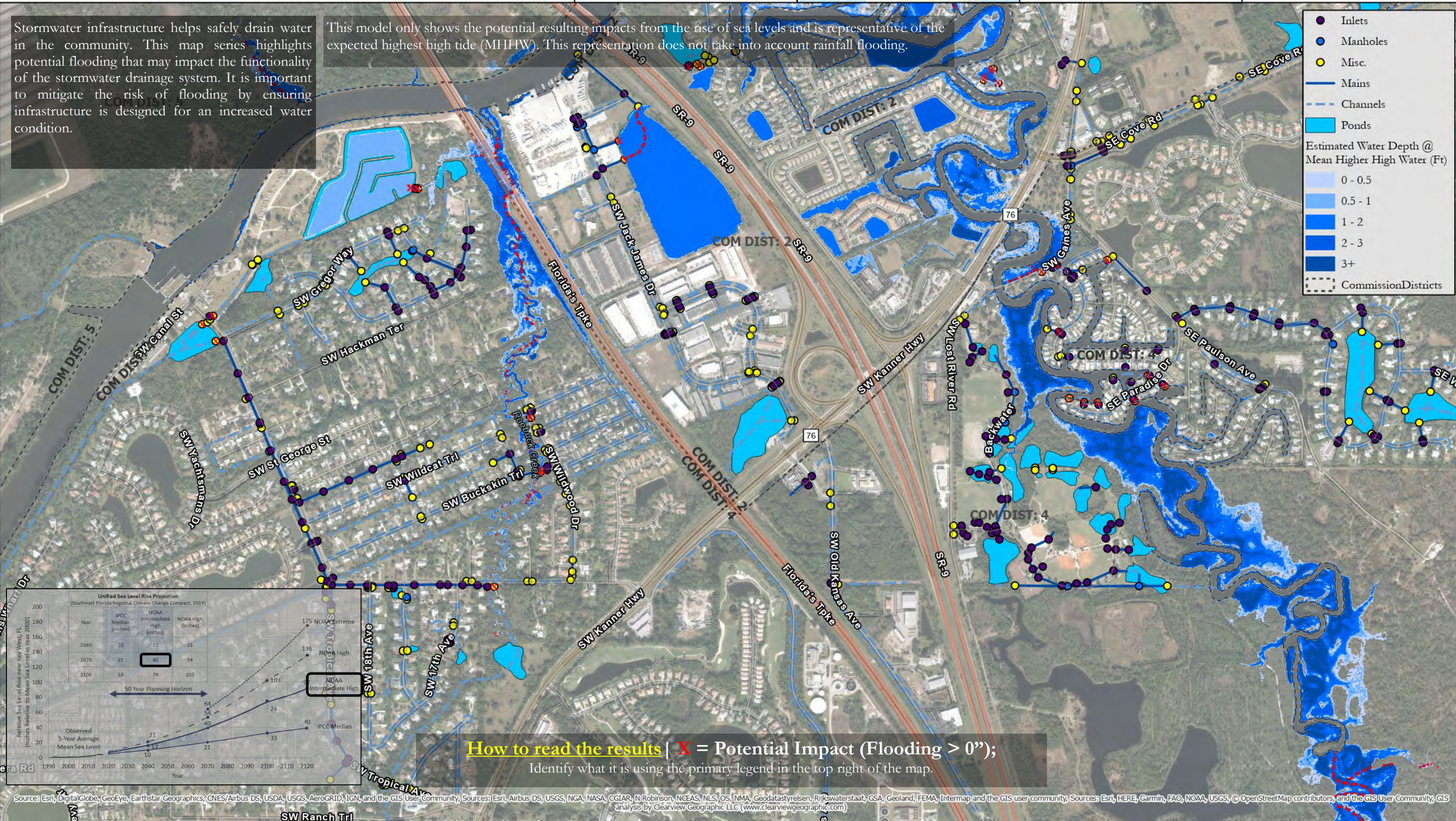
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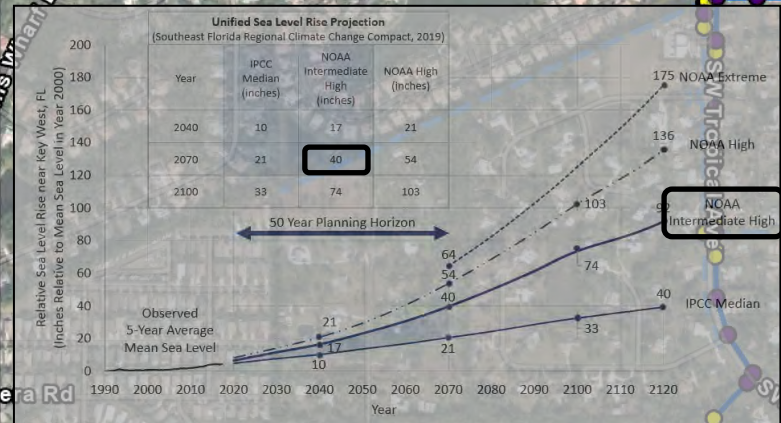


- Inlets
- Manholes
- Misc.
- Mains
- - - Channels
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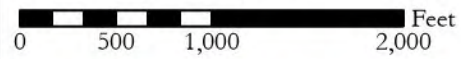


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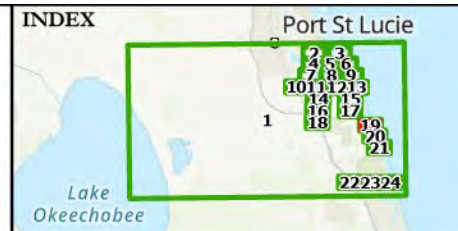
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Scenario: MHHW
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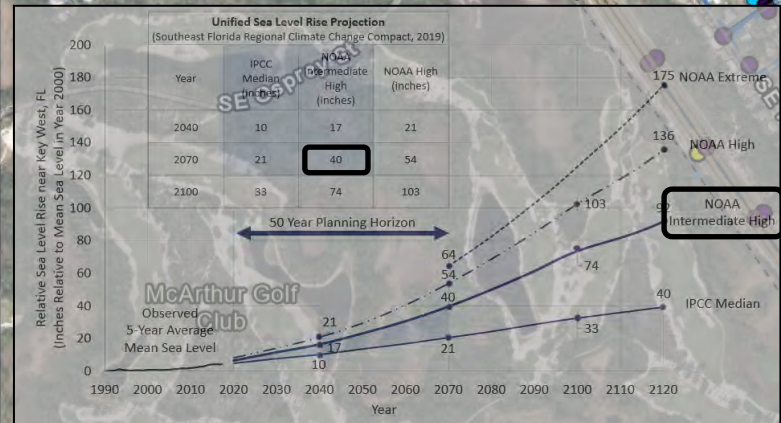


- Inlets
- Backflows
- Manholes
- Misc.
- Mains
- - - Channels
- Ponds

Estimated Water Depth @ Mean Higher High Water (Ft)

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3+

Commission Districts



How to read the results | **X** = Potential Impact (Flooding > 0");
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Stormwater Infrastructure Vulnerability

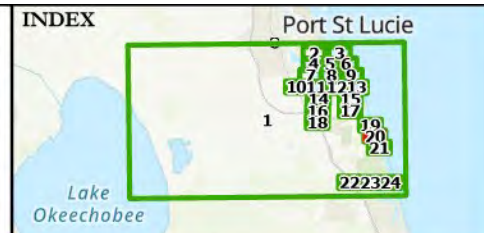
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 20 of 24



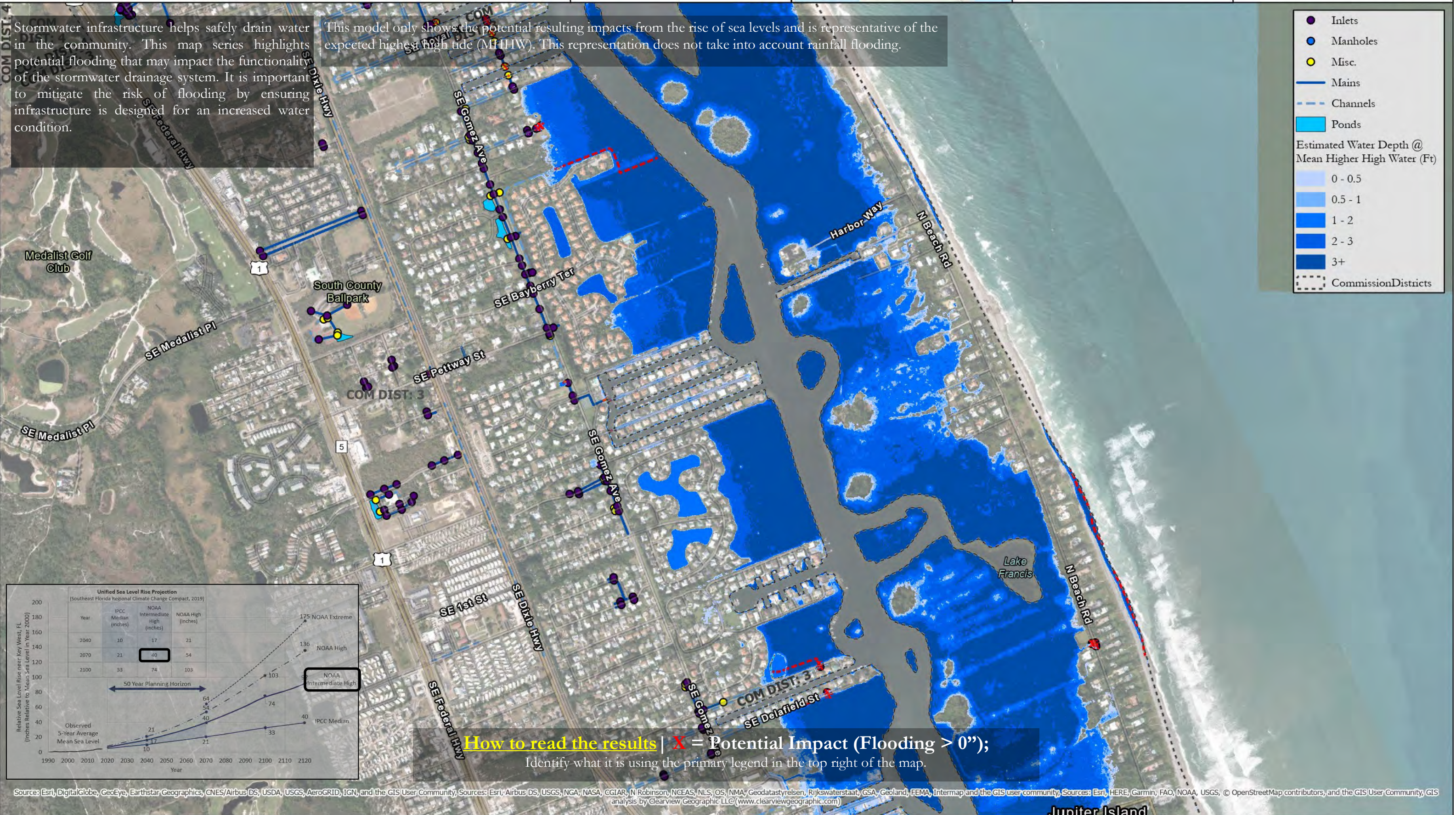
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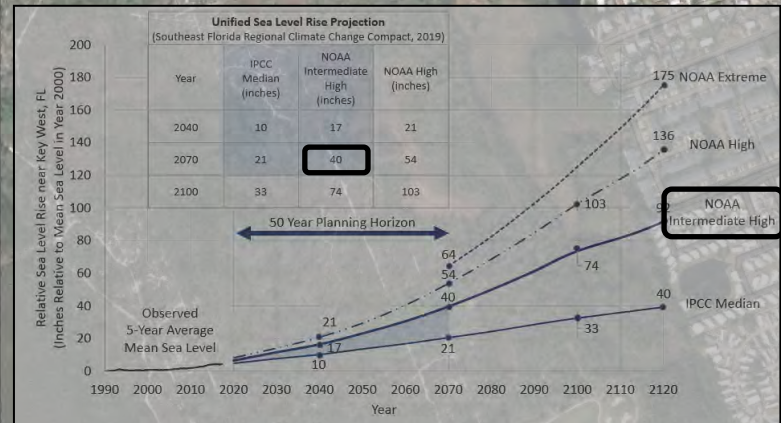
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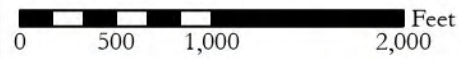


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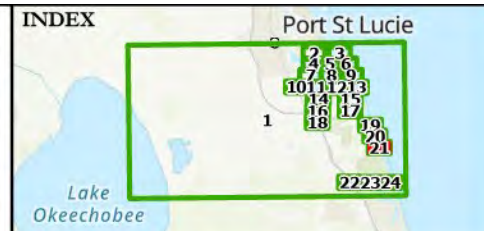
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 21 of 24



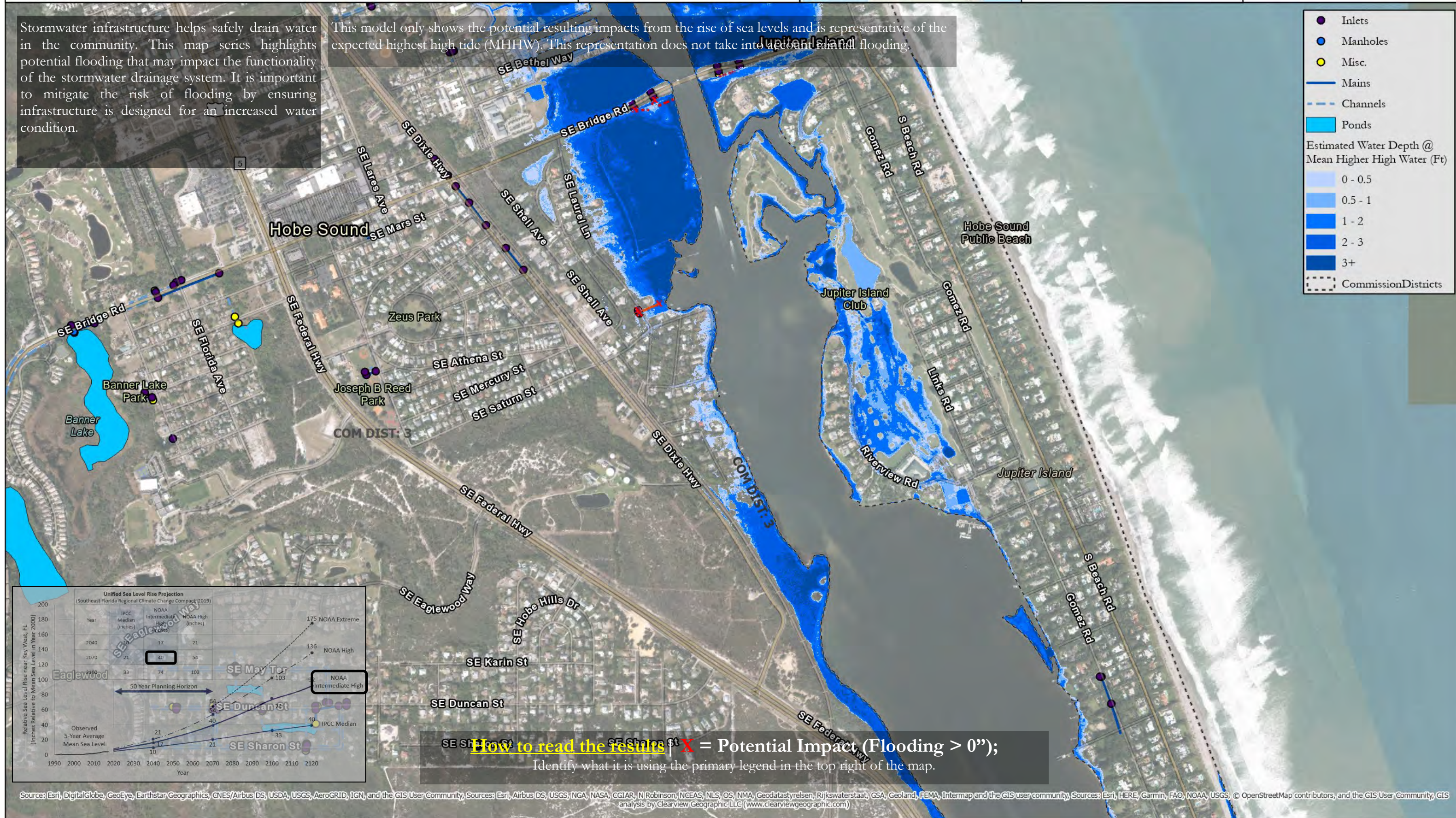
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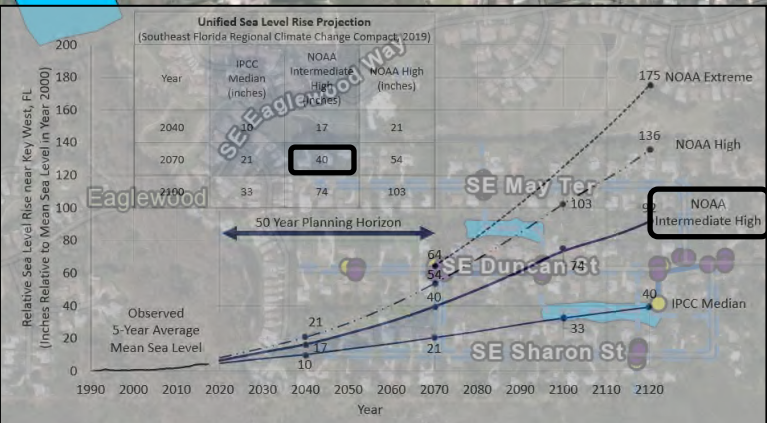
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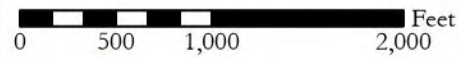


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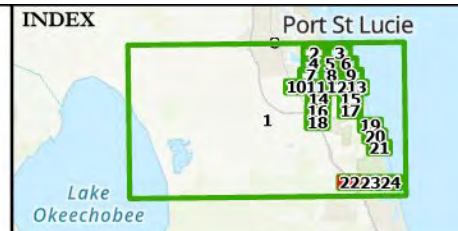
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Projection: NOAA Intermediate High
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Scenario: MHHW
Page: 22 of 24



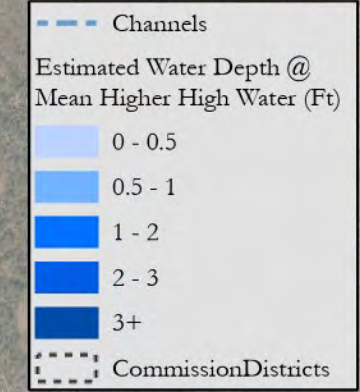
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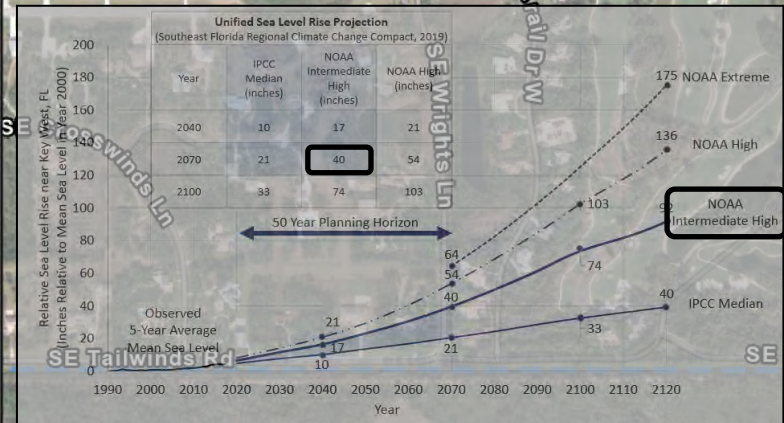
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NO DATA TO DISPLAY

COM DIST: 3



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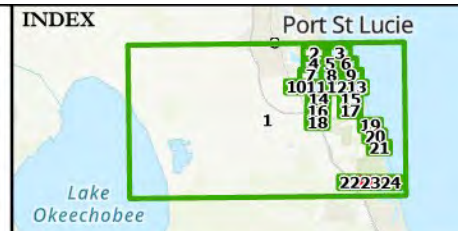
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
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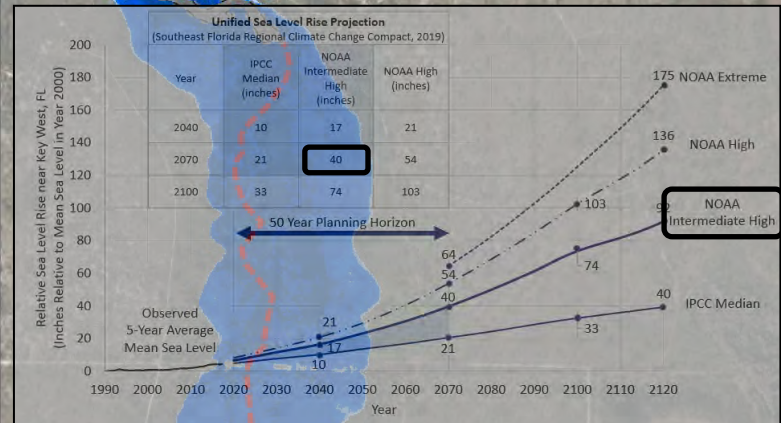


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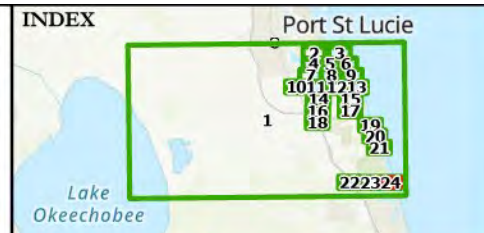
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 24 of 24



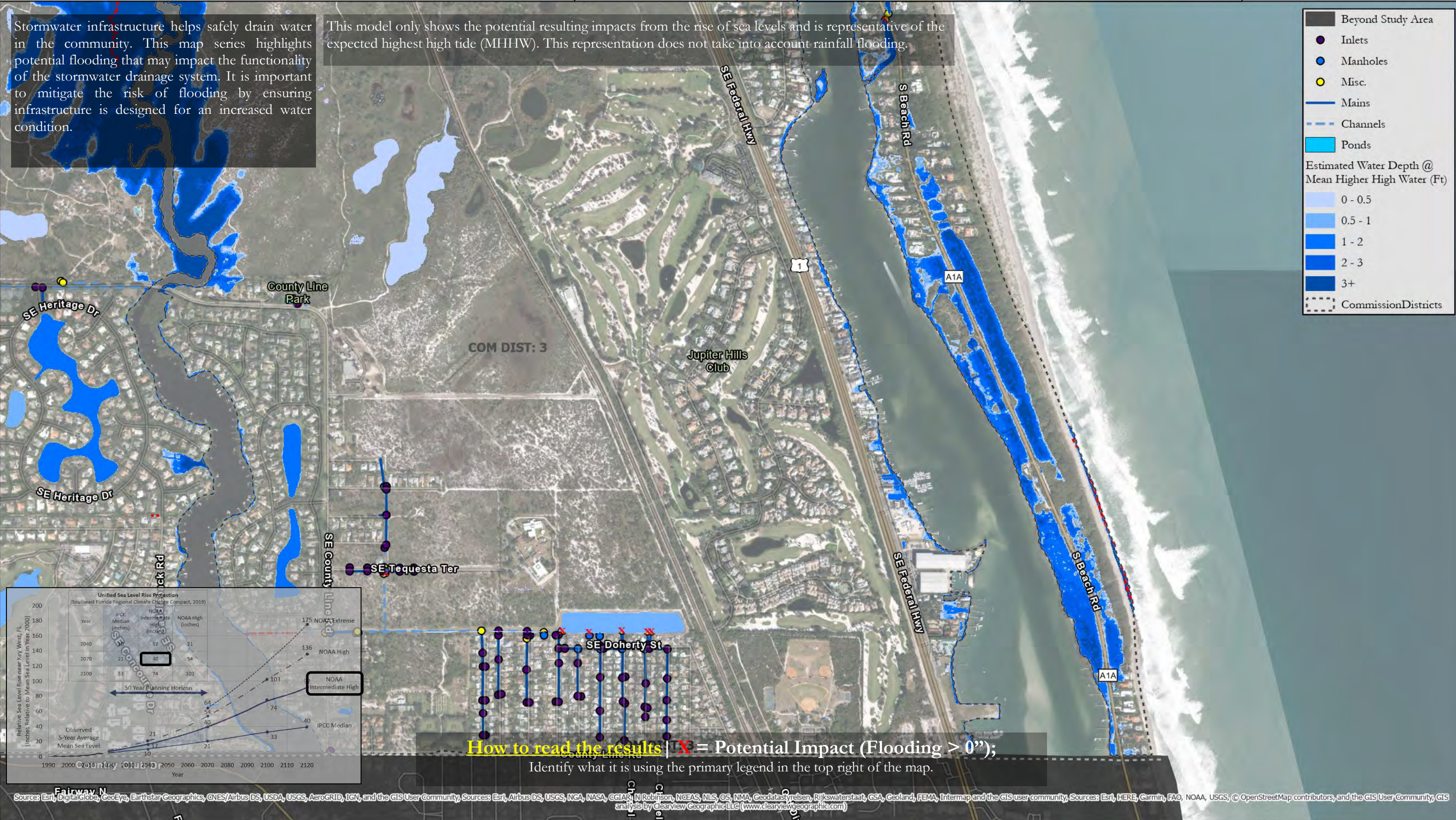
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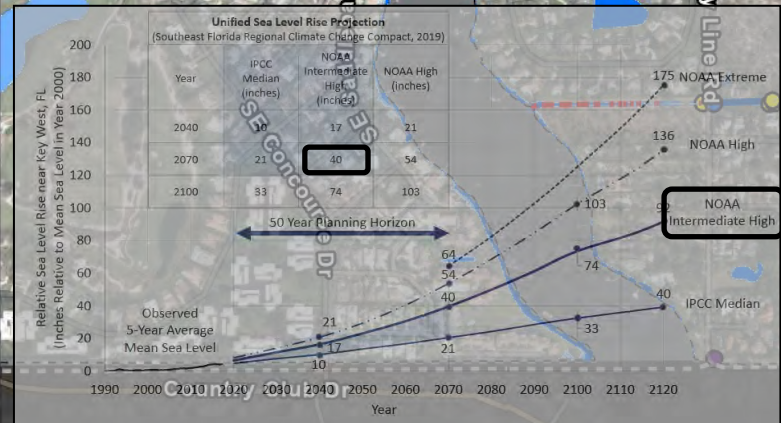
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- Beyond Study Area
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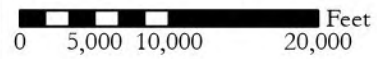


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Sanitary Sewer Vulnerability

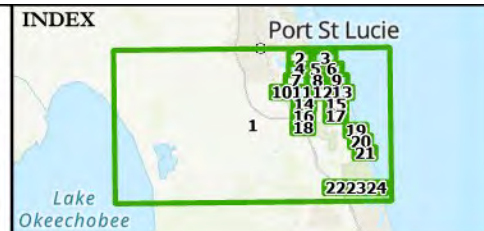
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 1 of 24



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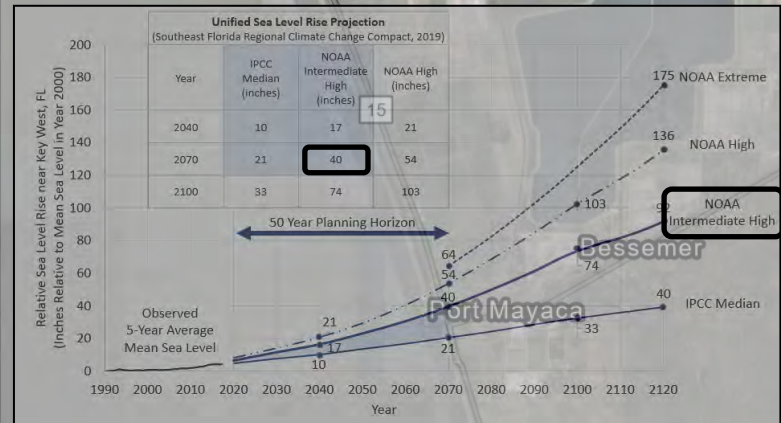
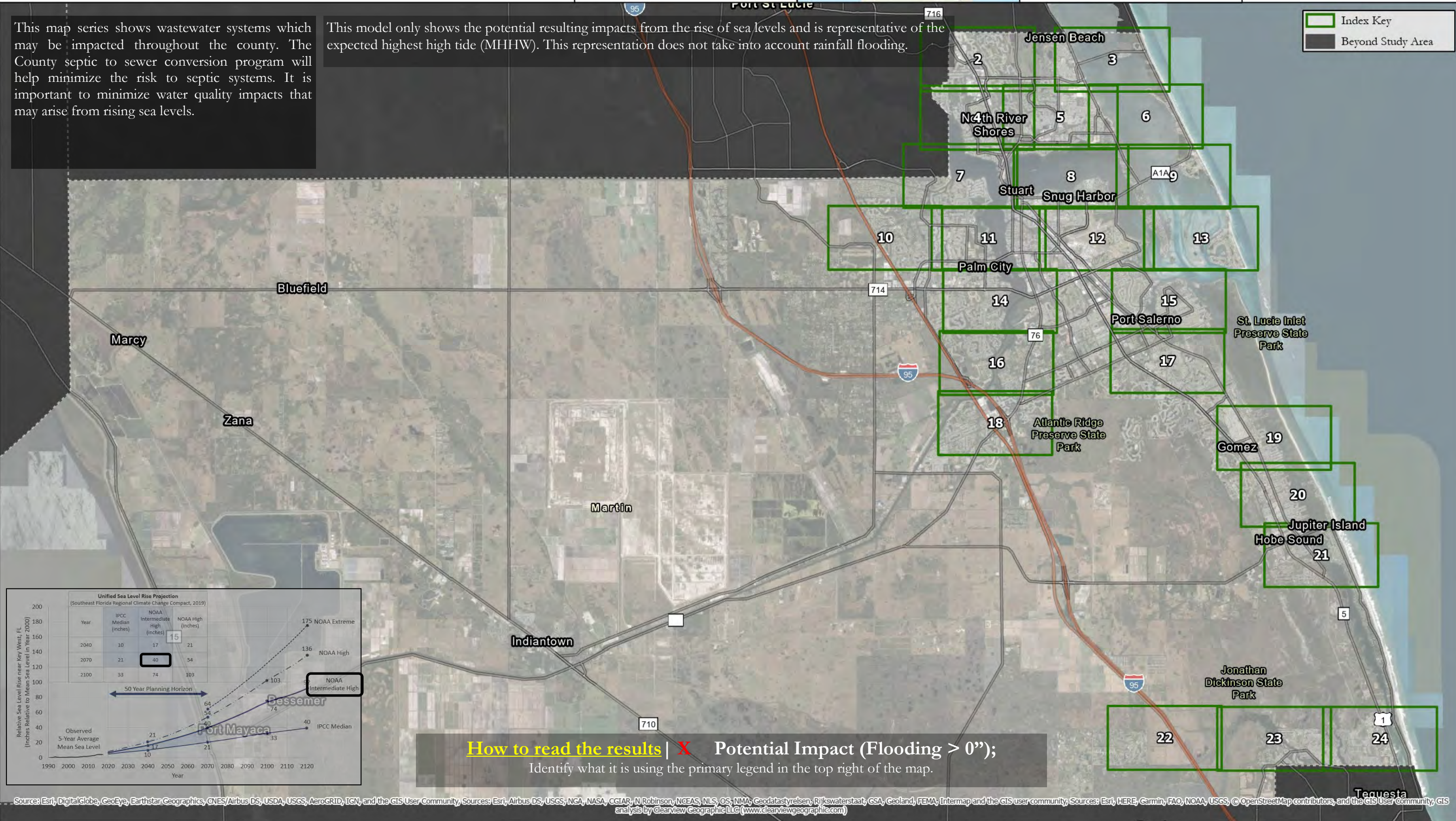


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Index Key
 Index Key
 Beyond Study Area



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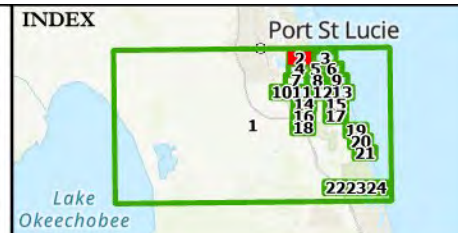
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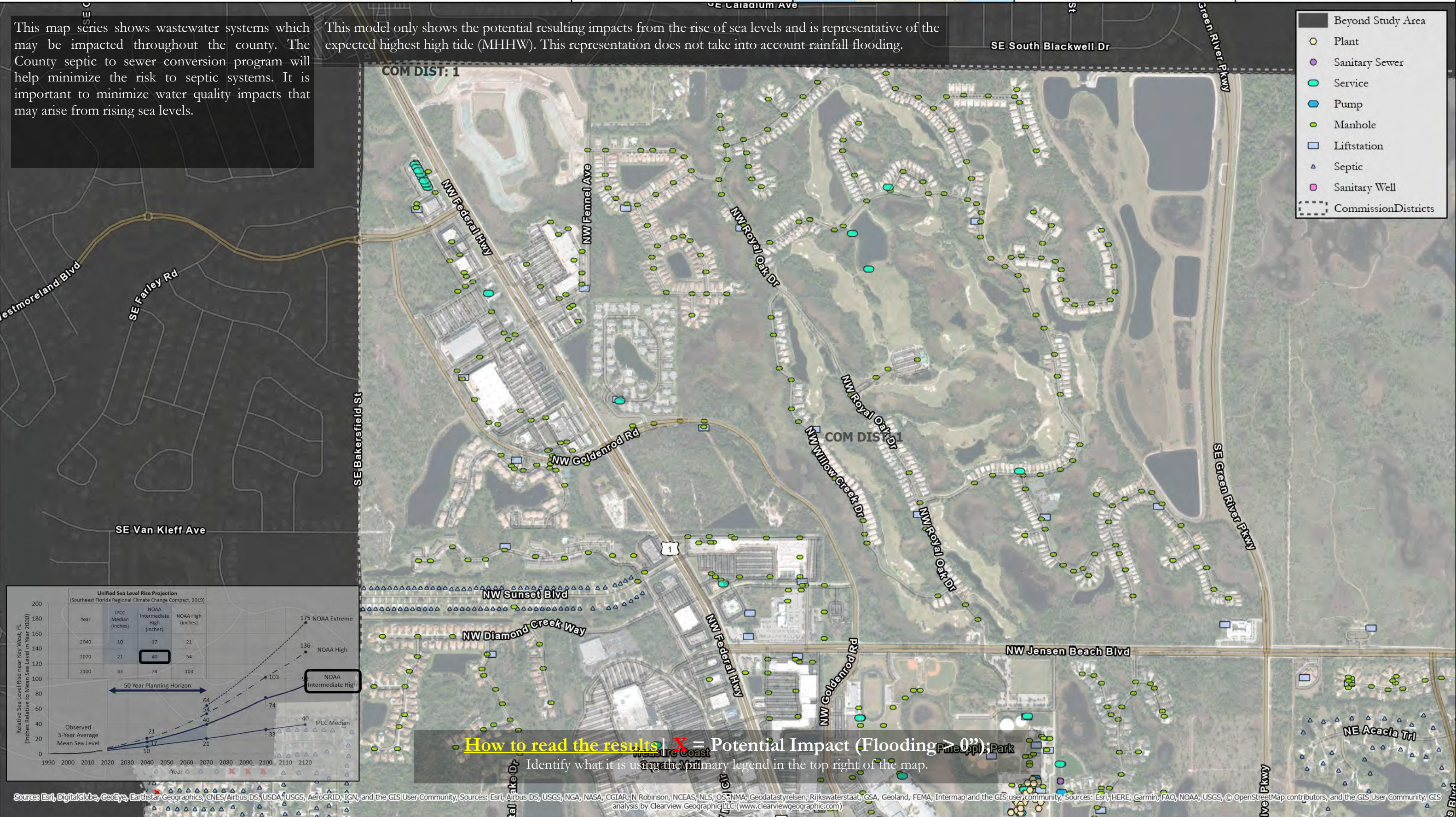
Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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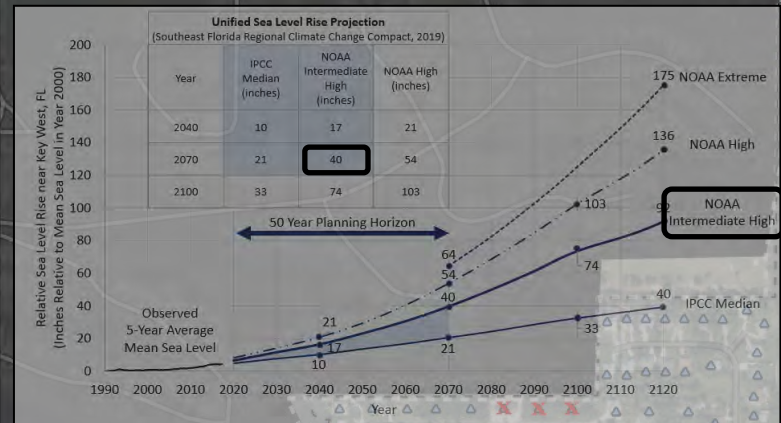
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- Beyond Study Area
- Plant
- Sanitary Sewer
- Service
- Pump
- Manhole
- Liftstation
- △ Septic
- Sanitary Well
- - - Commission Districts



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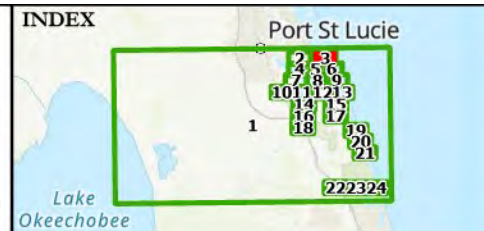
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 3 of 24



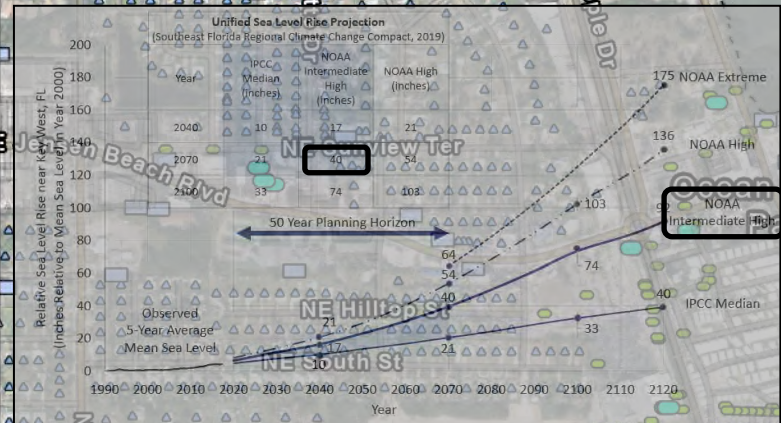
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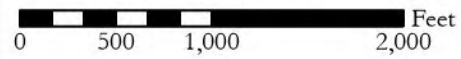
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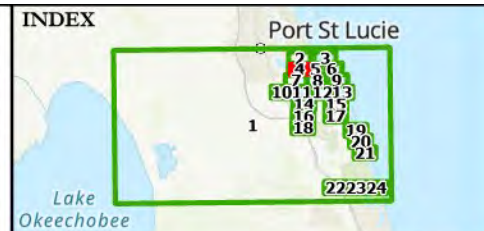
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 4 of 24



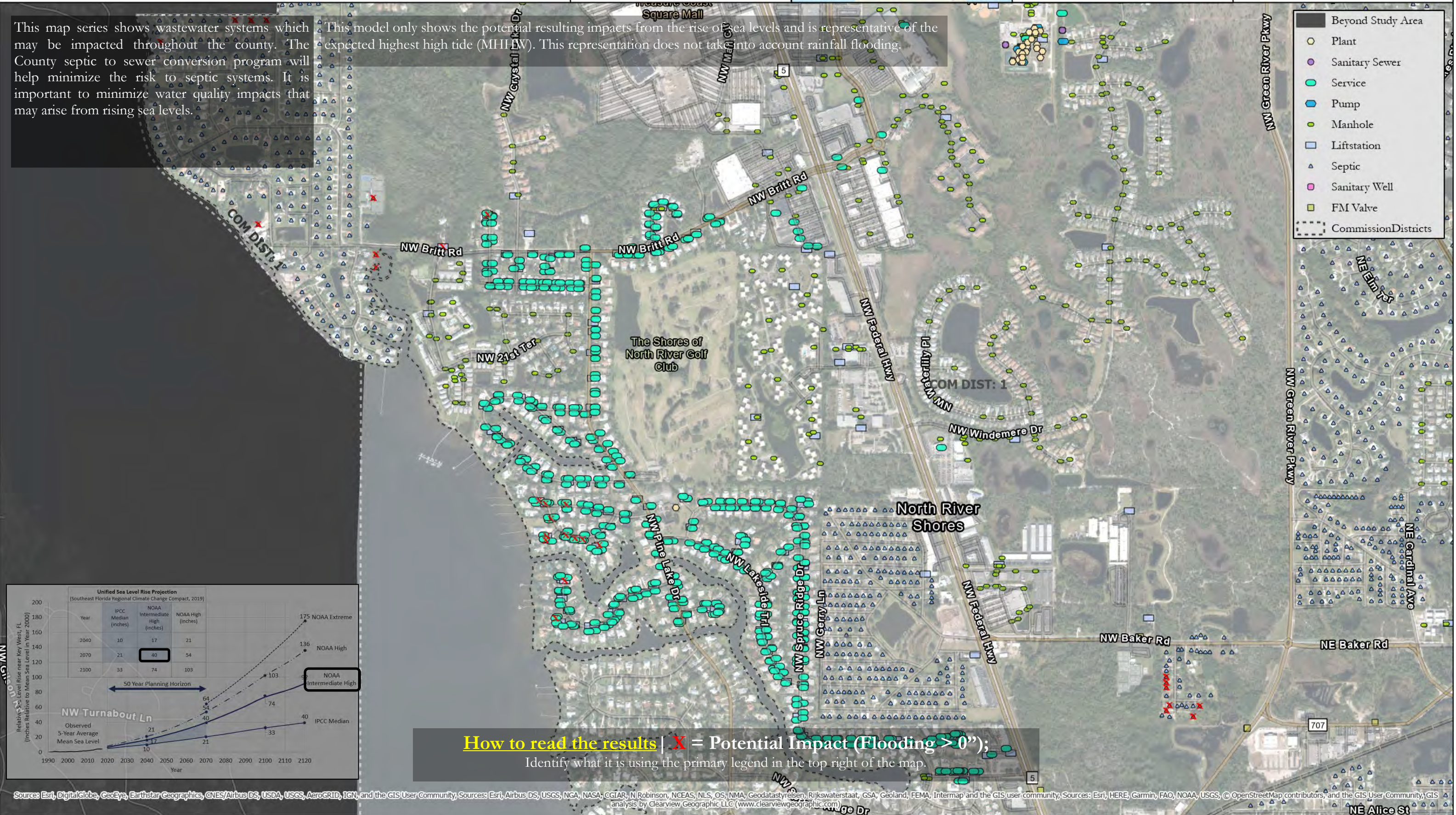
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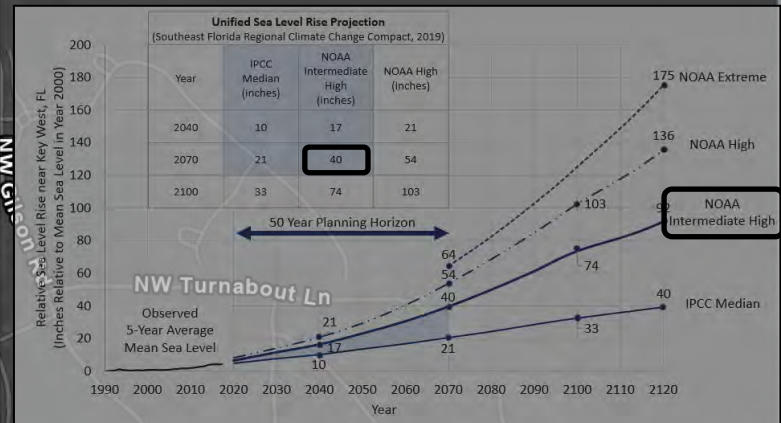
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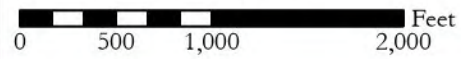


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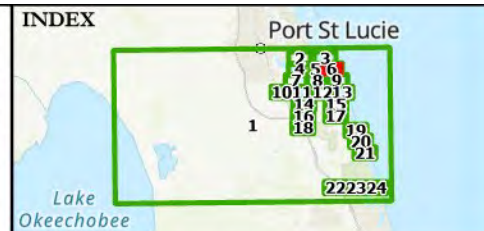
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Scenario: MHHW
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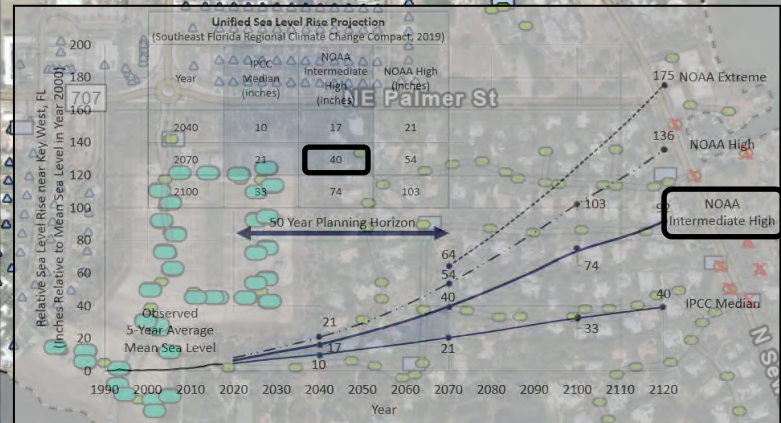
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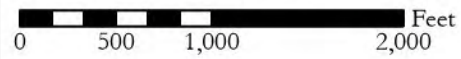


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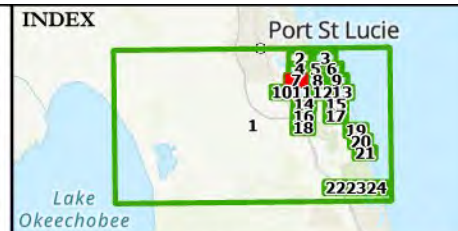
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Scenario: MHHW
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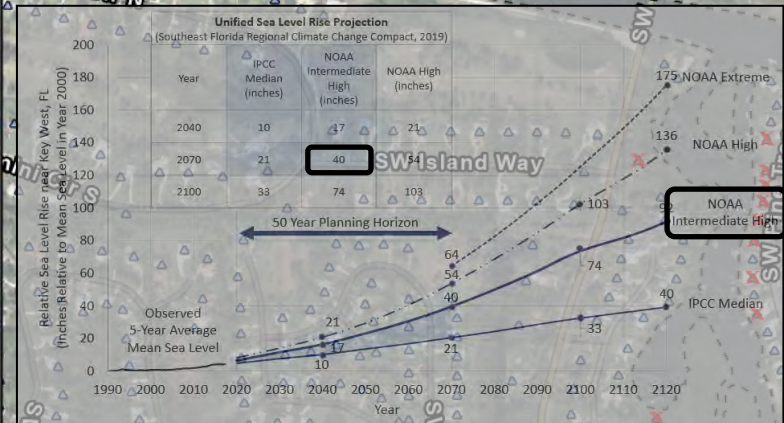
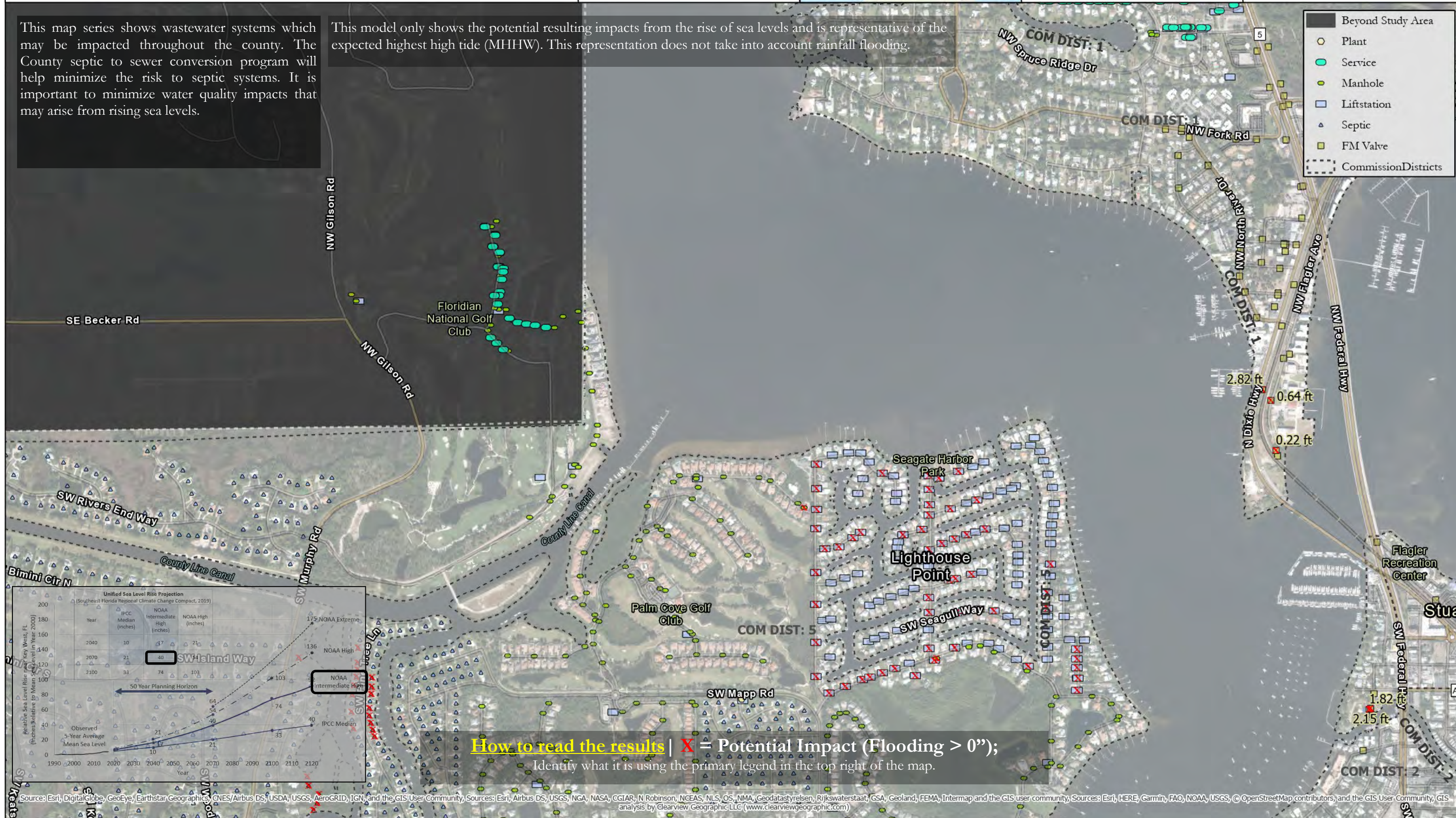
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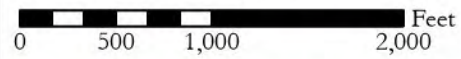


How to read the results | X = Potential Impact (Flooding > 0");
Identify what it is using the primary legend in the top right of the map.

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Sanitary Sewer Vulnerability

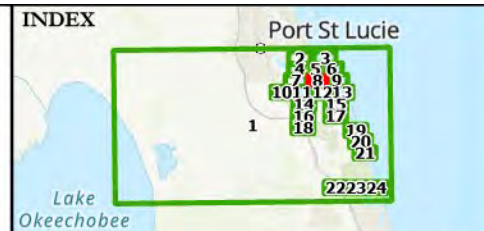
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 8 of 24



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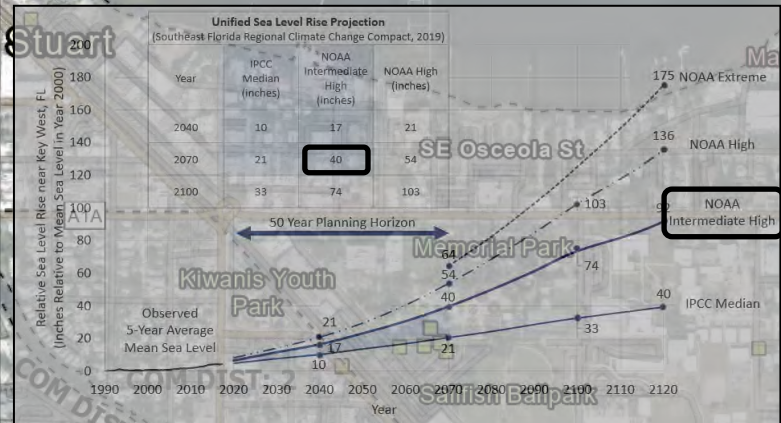


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- Service
- Manhole
- Liftstation
- Septic
- FM Valve
- Commission Districts



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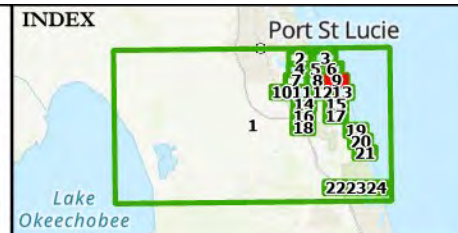
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 9 of 24

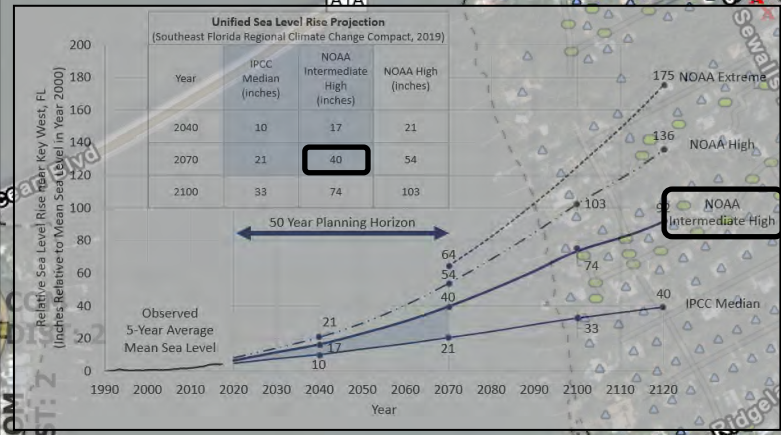


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- Plant
- Sanitary Sewer
- Service
- Manhole
- Liftstation
- Septic
- Sanitary Well
- FM Valve
- Commission Districts

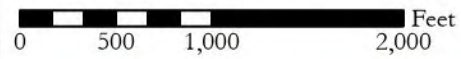


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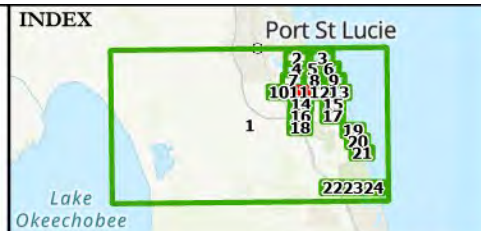
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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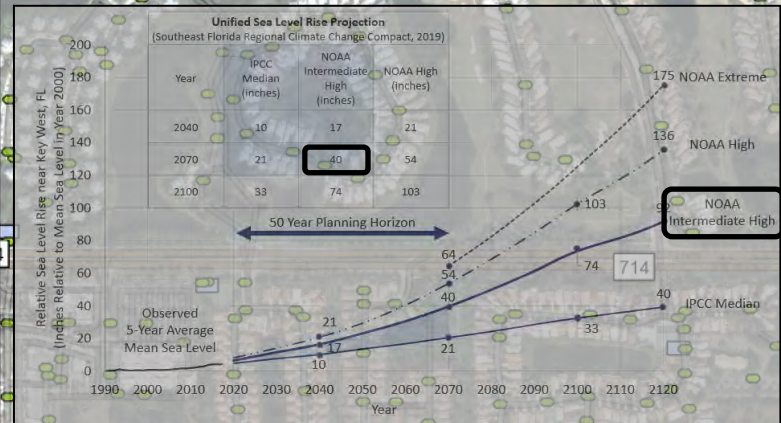
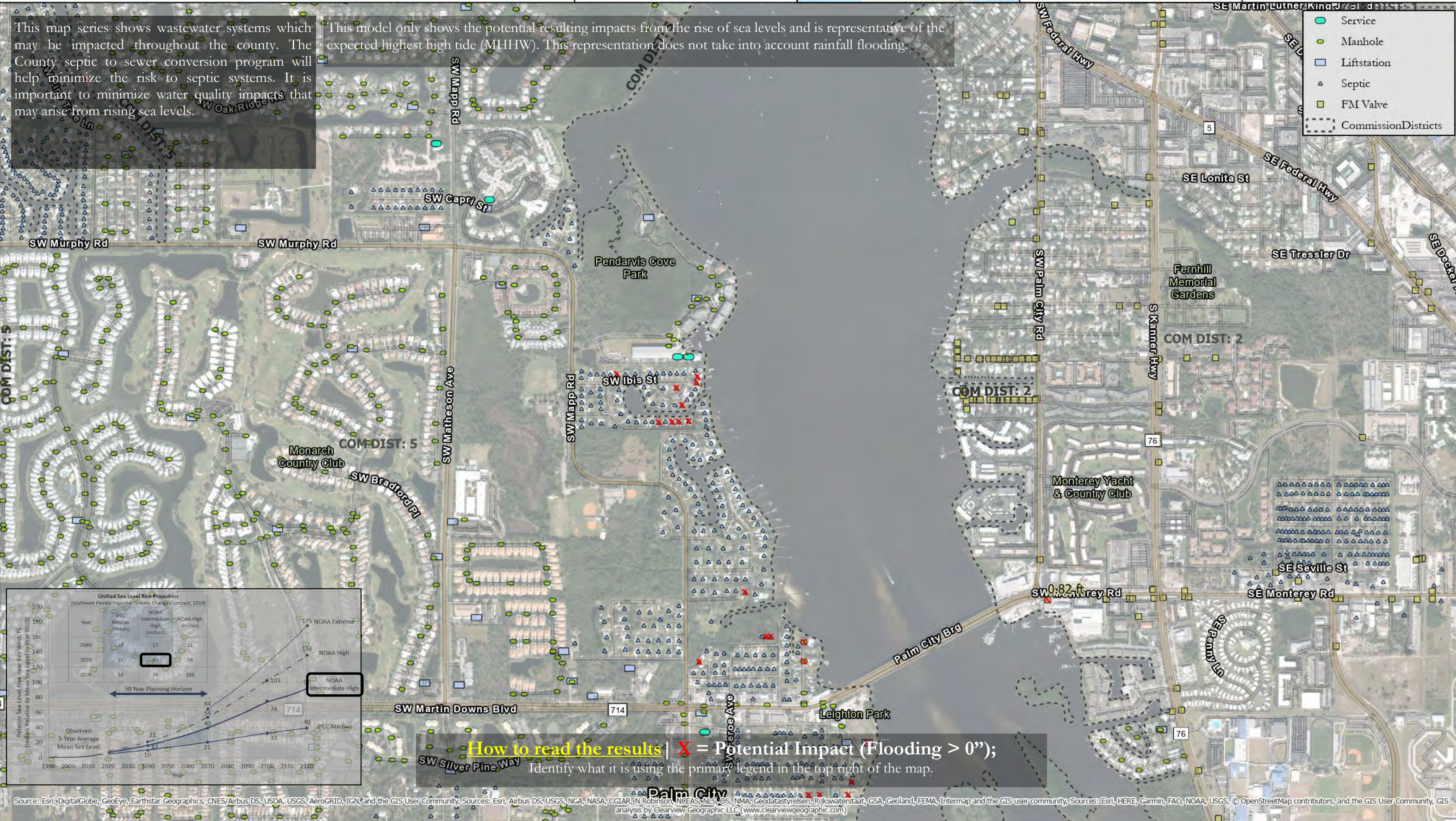


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- Service
- Manhole
- Liftstation
- Septic
- FM Valve
- Commission Districts

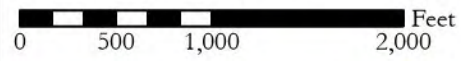


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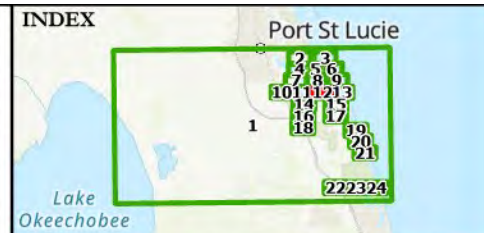
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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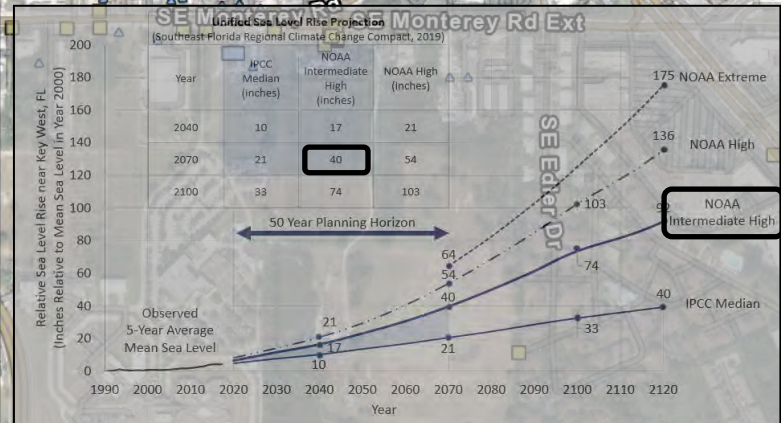


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- Service
- Manhole
- Liftstation
- Septic
- Raw Well
- FM Valve
- Commission Districts

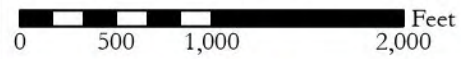


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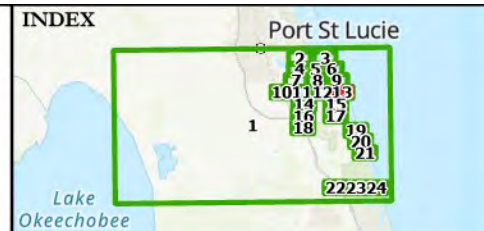
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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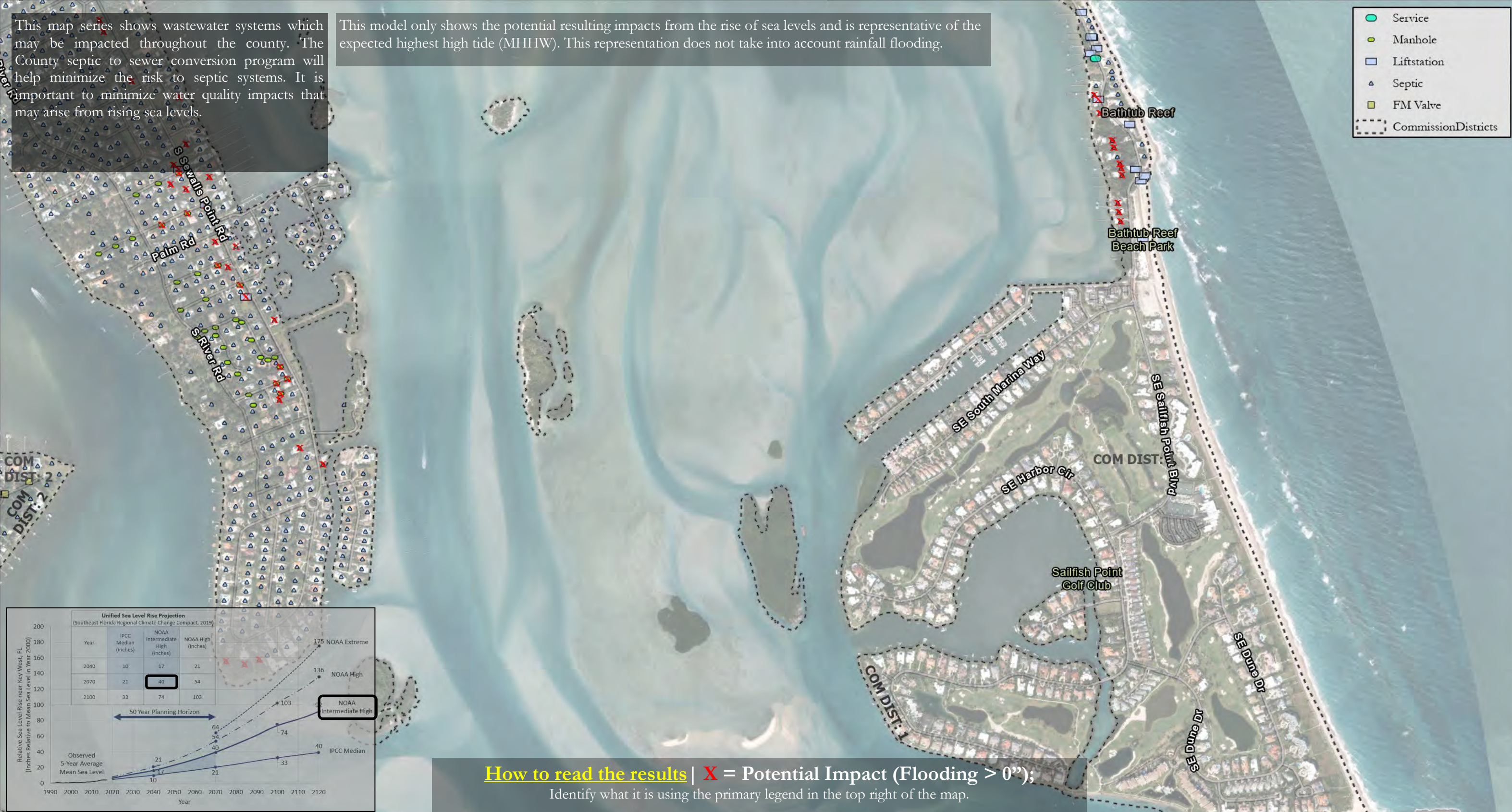
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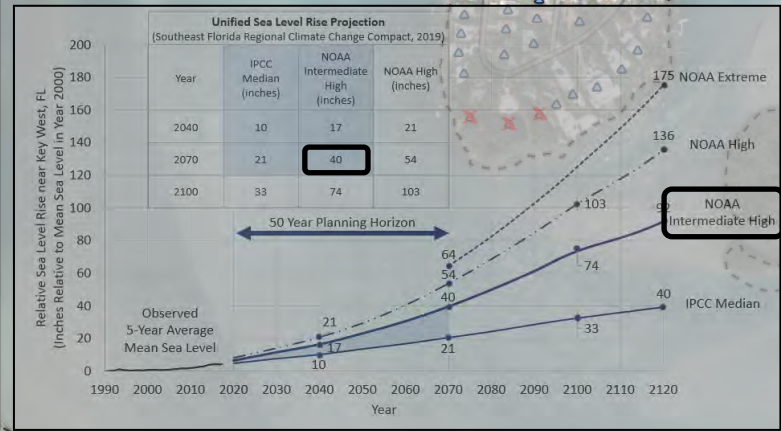
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- Service
- Manhole
- Liftstation
- ▲ Septic
- FM Valve
- Commission Districts

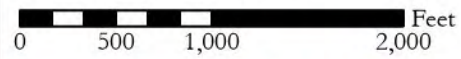


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Sanitary Sewer Vulnerability

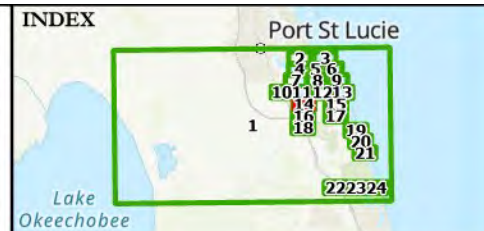
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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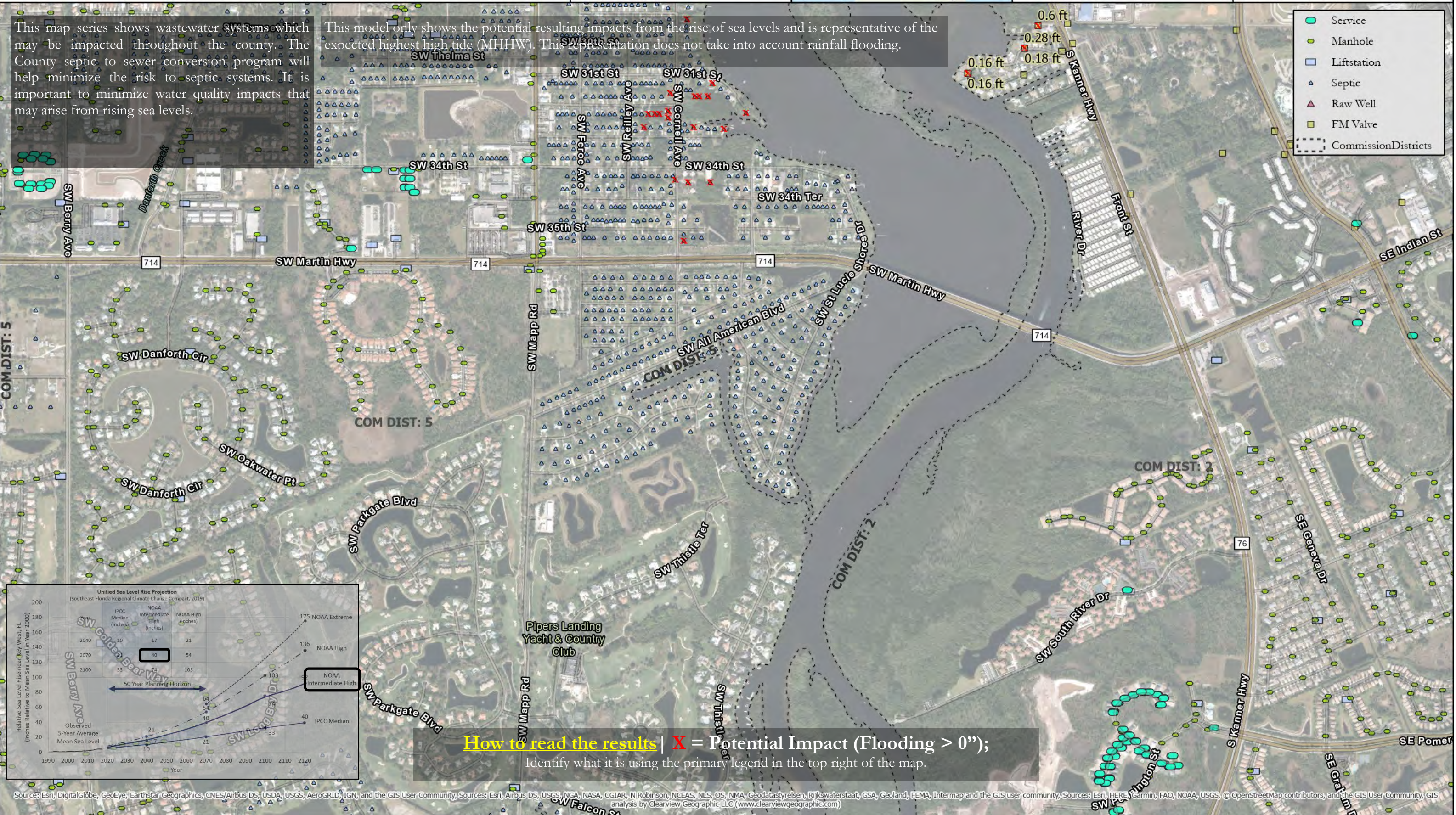
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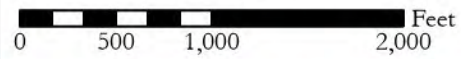
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Sanitary Sewer Vulnerability

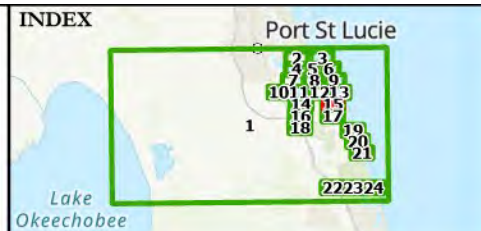
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 15 of 24



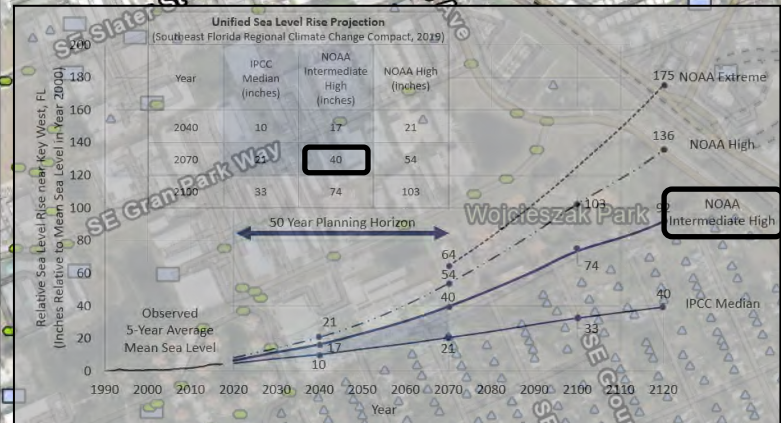
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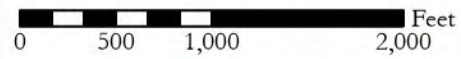


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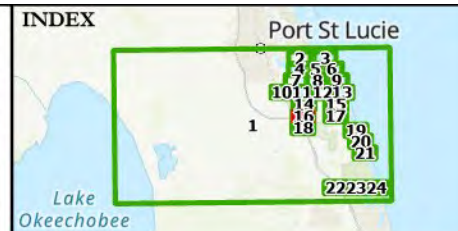
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 16 of 24

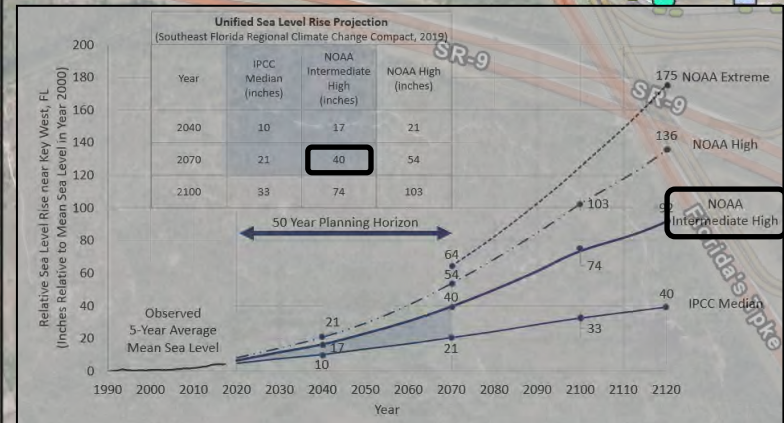


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- Service
- Manhole
- Liftstation
- Septic
- Commission Districts



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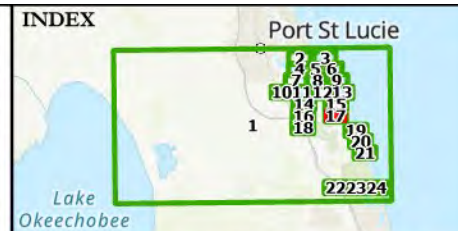
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Clark 06/03/2020 Z /1836B



Projection: NOAA Intermediate High
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 Water Rise (Inches): Approx. 40
 Scenario: MHHW
 Page: 17 of 24

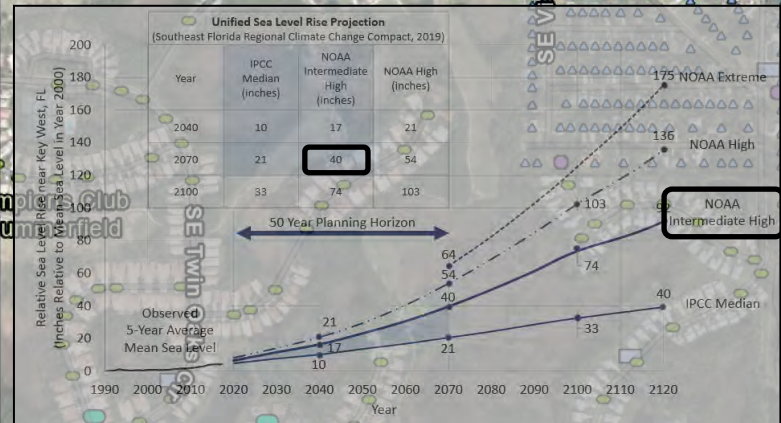


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- Sanitary Sewer
- Service
- Manhole
- Liftstation
- Septic
- Sanitary Well
- Commission Districts

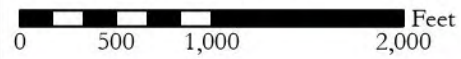


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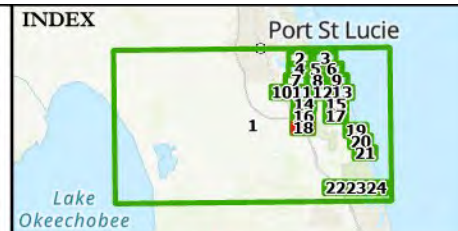
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Scenario: MHHW
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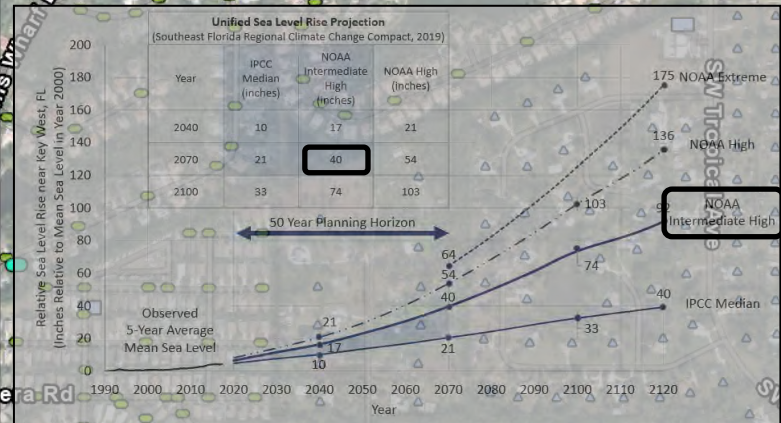
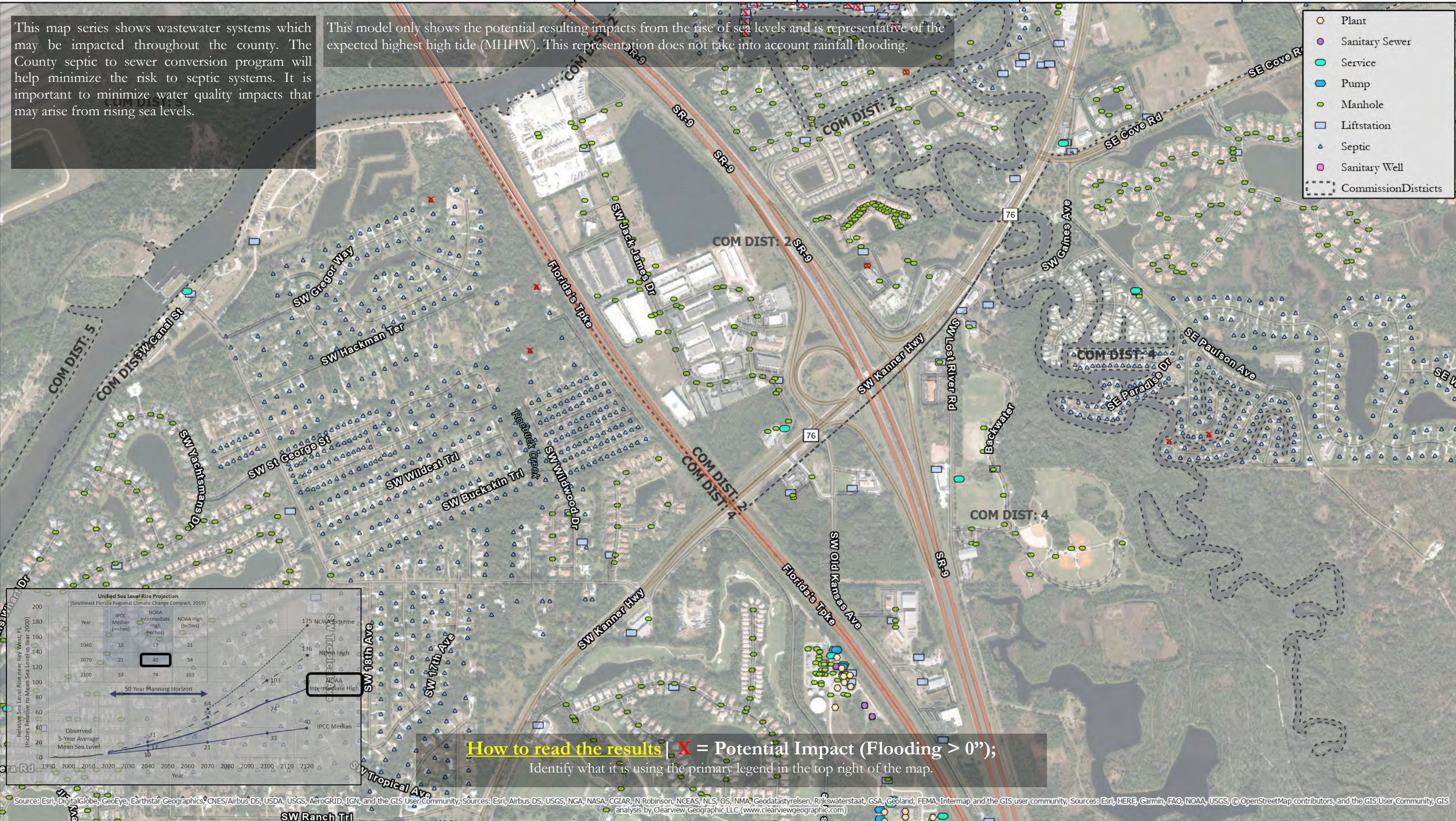


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- Plant
- Sanitary Sewer
- Service
- Pump
- Manhole
- Liftstation
- Septic
- Sanitary Well
- Commission Districts



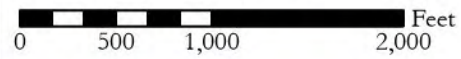
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Sanitary Sewer Vulnerability

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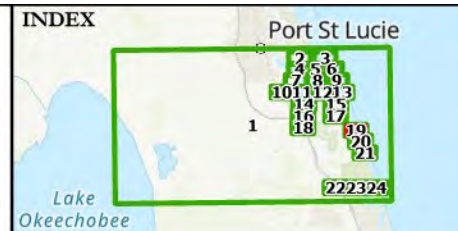
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 Year: 2070
 Water Rise (Inches): Approx. 40
 Scenario: MHHW
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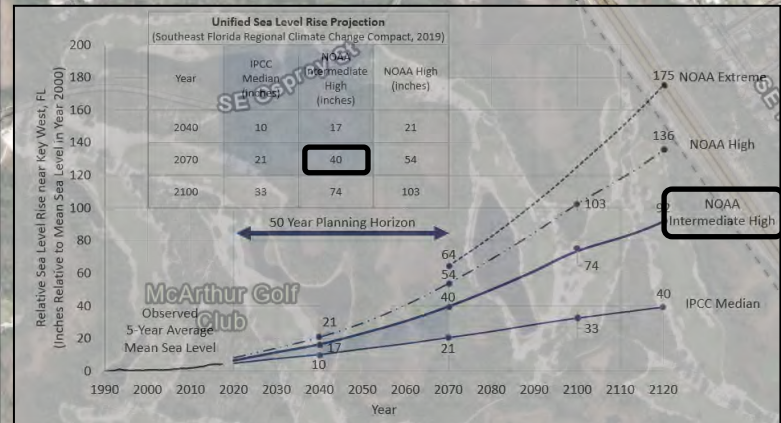
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- Liftstation
- Commission Districts

NO DETECTABLE IMPACTS



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Sanitary Sewer Vulnerability

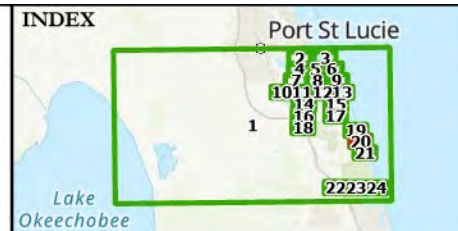
R1911 Resiliency Planning Grant
Martin County, Florida



Clark 06/03/2020 Z:/1836B



Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 20 of 24



PROJECT PARTNERS



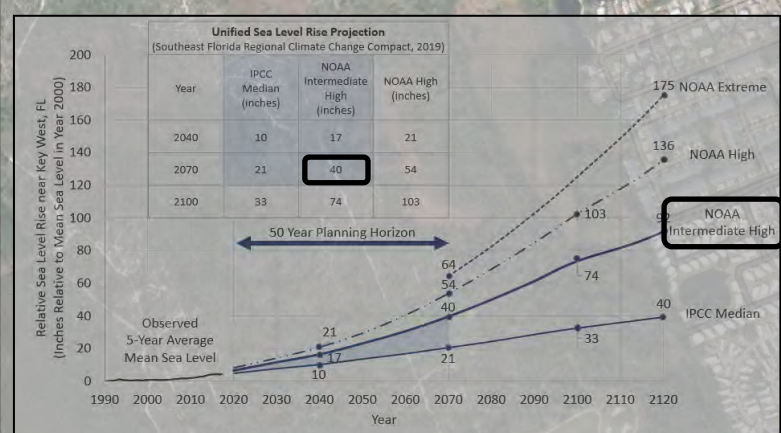
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- Liftstation
- Commission Districts

NO DETECTABLE IMPACTS

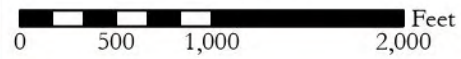


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Sanitary Sewer Vulnerability

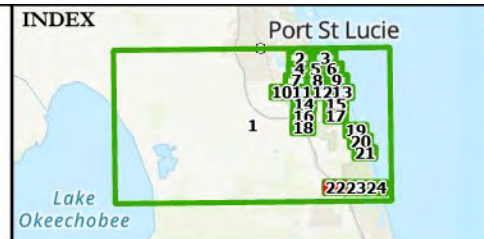
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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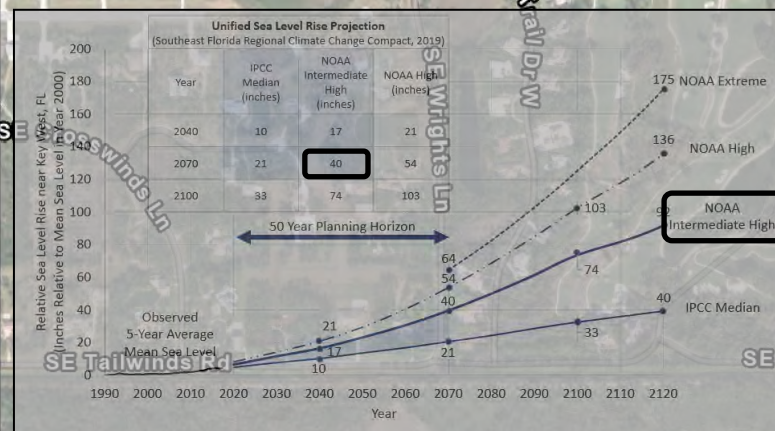
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Commission Districts

NO DATA TO DISPLAY

COM DIST: 3

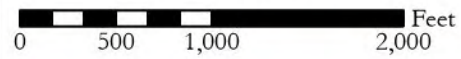


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Sanitary Sewer Vulnerability

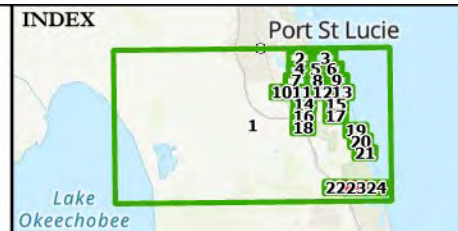
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Scenario: MHHW
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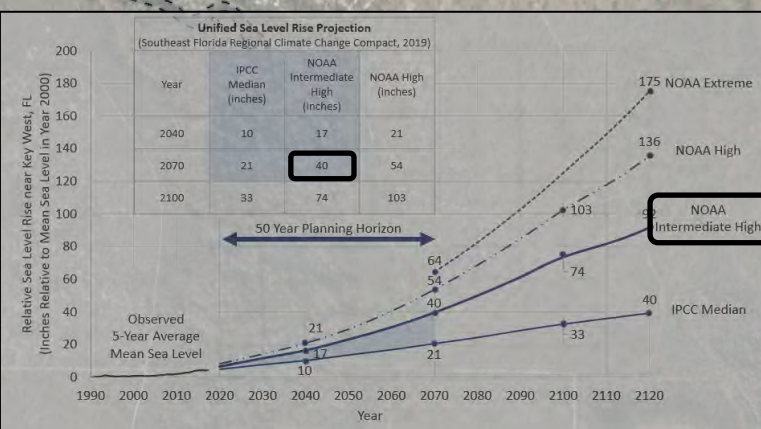
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■ Beyond Study Area
--- Commission Districts

NO DATA TO DISPLAY

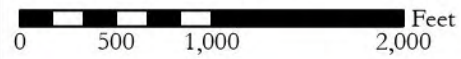


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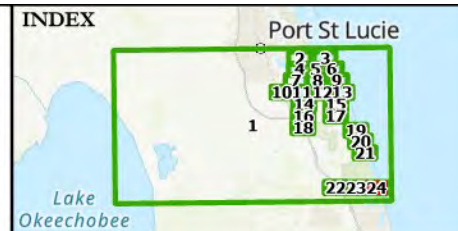
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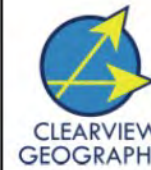
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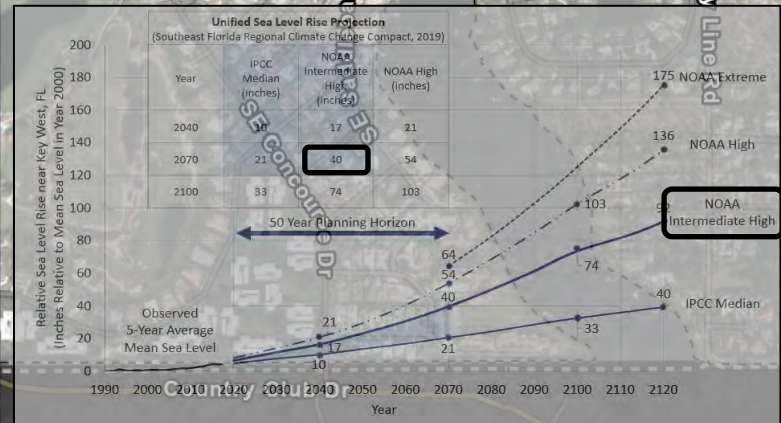
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■ Beyond Study Area
--- Commission Districts

NO DETECTABLE IMPACTS

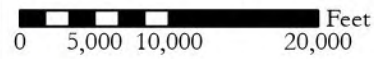


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Potable Water Vulnerability

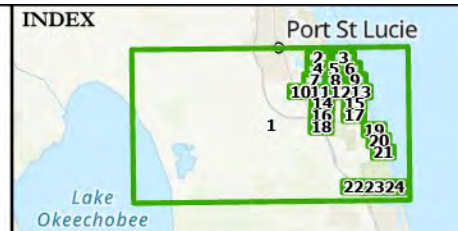
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Water Rise (Inches): Approx. 40
Scenario: MHHW
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PROJECT PARTNERS

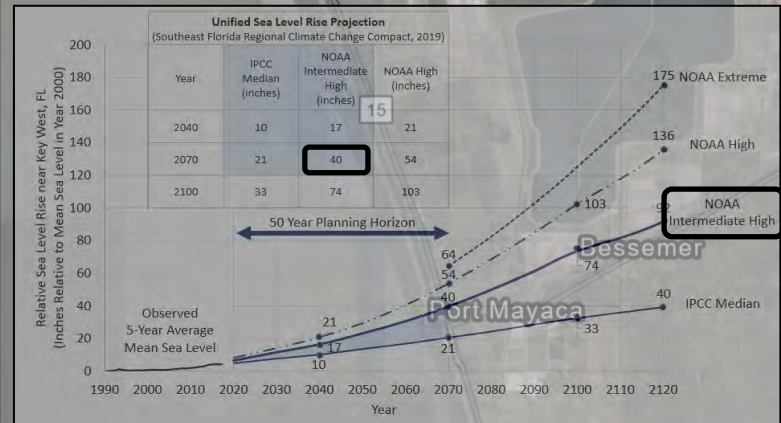
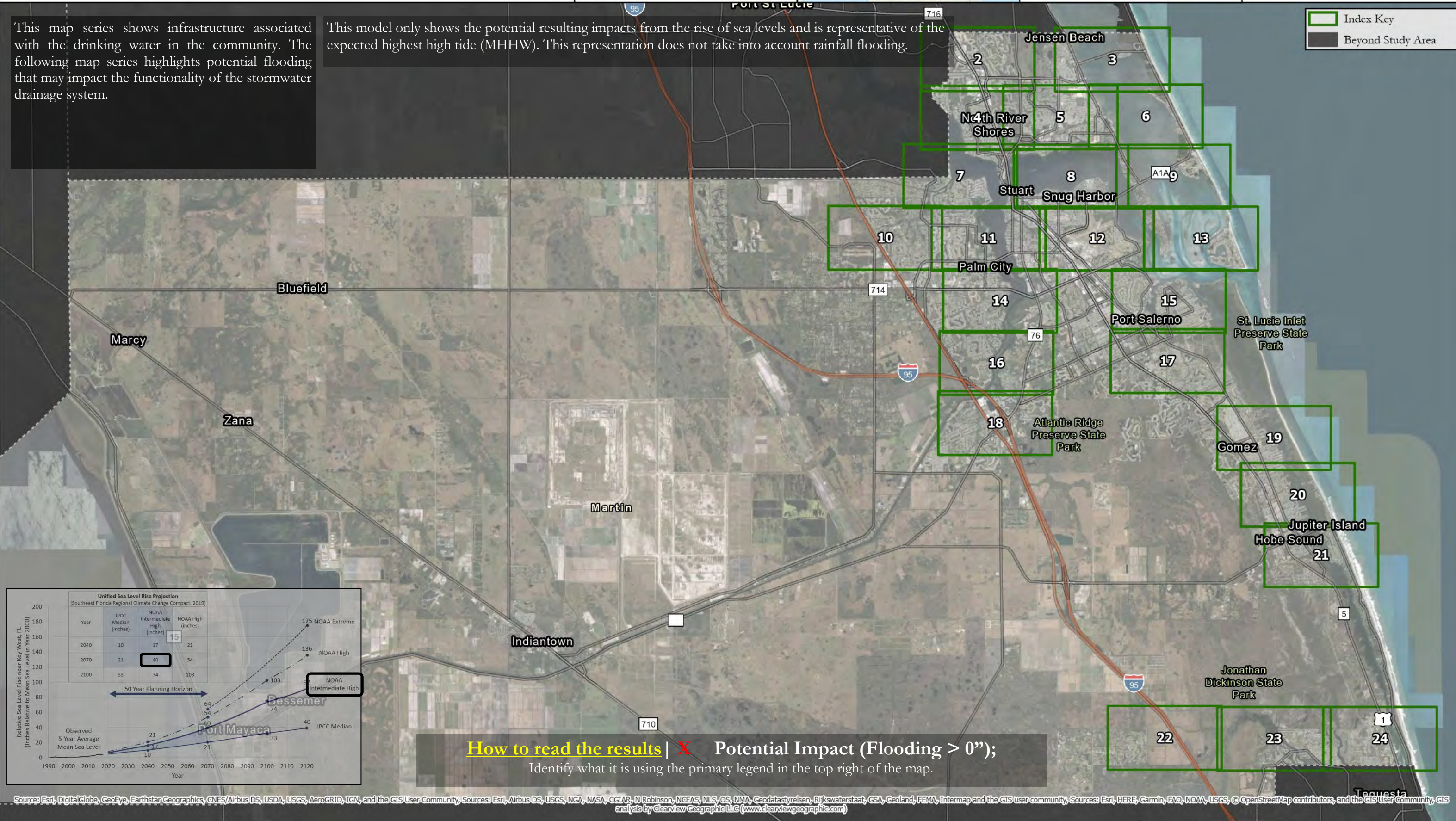


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Index Key
 Index Key
 Beyond Study Area



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Potable Water Vulnerability

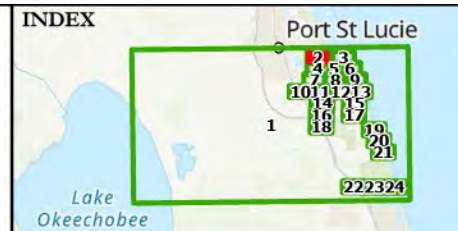
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Water Rise (Inches): Approx. 40
Scenario: MHHW
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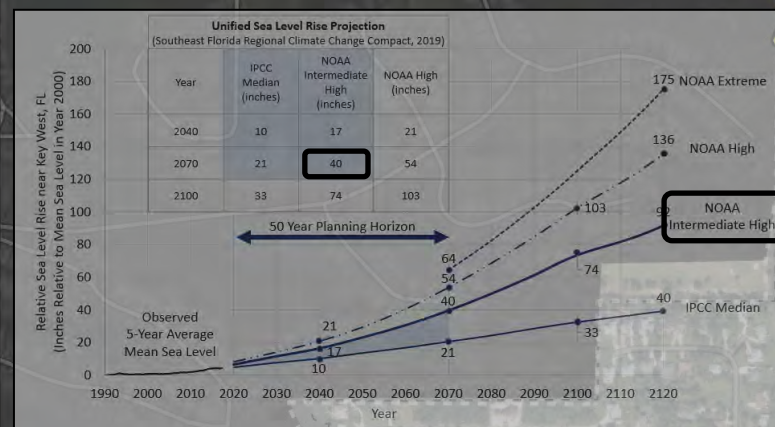
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NO DETECTABLE IMPACTS

- Beyond Study Area
- Plants
- ▲ Plants
- Sanitary Wells
- Wells
- Valves
- Pumps
- ◆ Meters
- Hydrants
- Backflows
- Water Valves
- Commission Districts



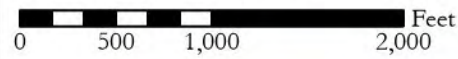
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Potable Water Vulnerability

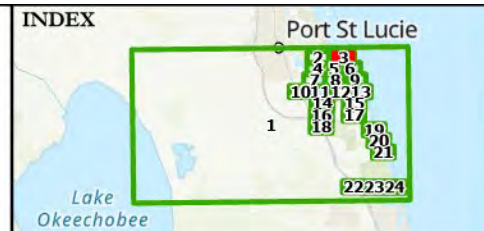
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Water Rise (Inches): Approx. 40
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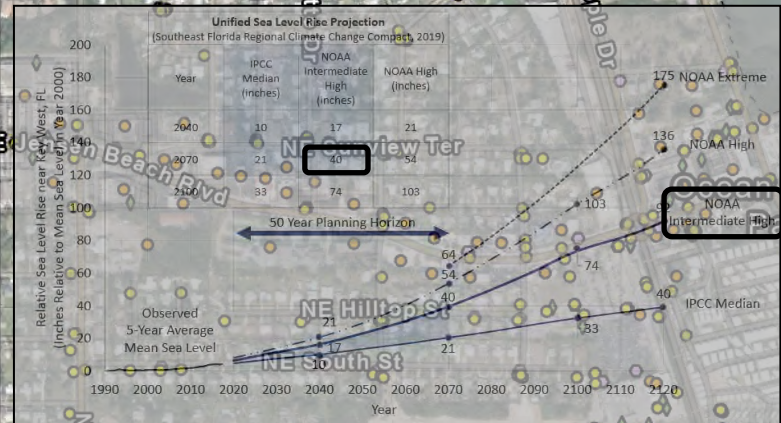
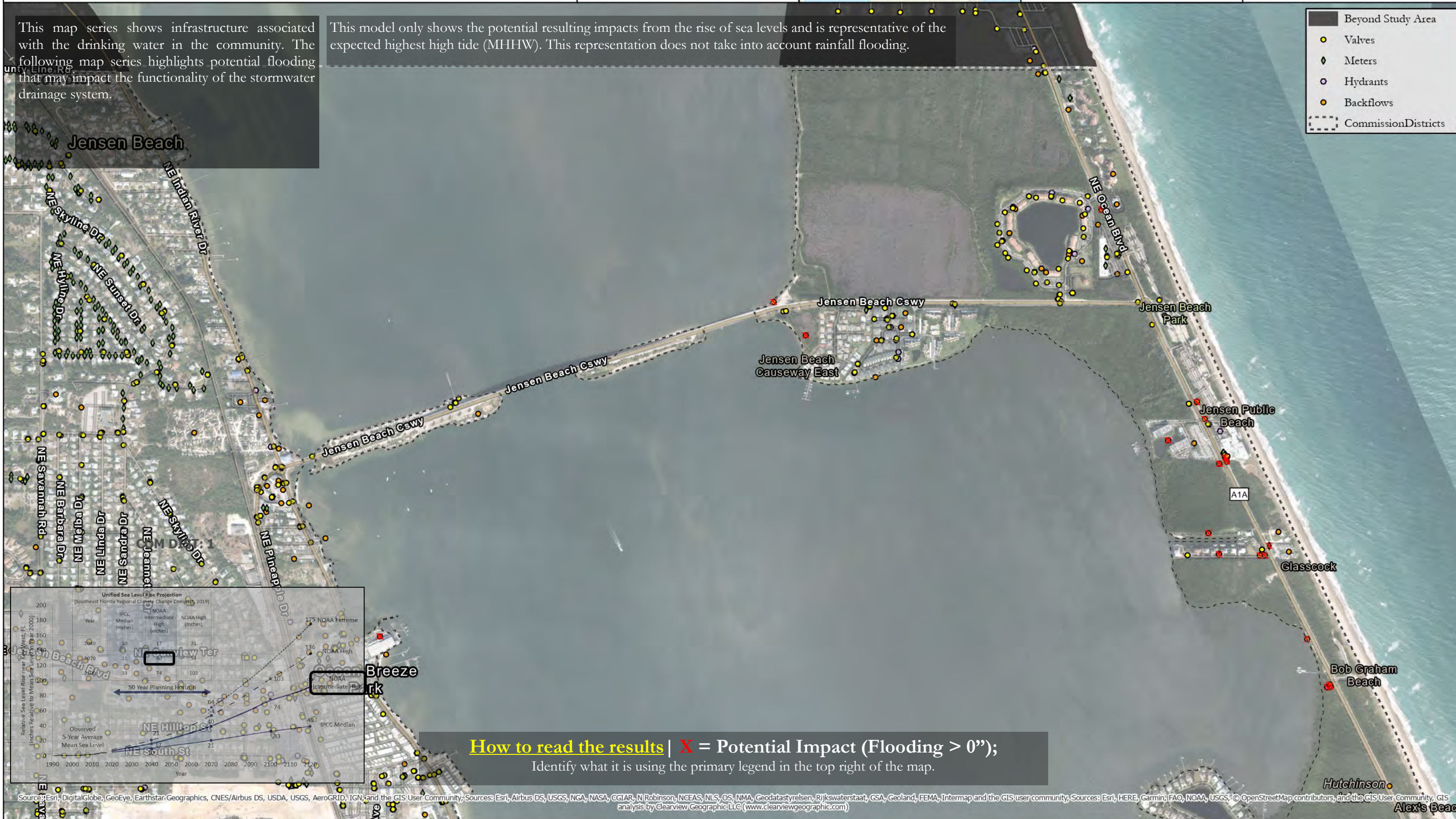


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- Beyond Study Area
- Valves
- Meters
- Hydrants
- Backflows
- Commission Districts



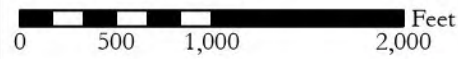
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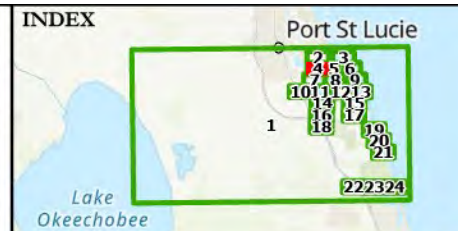
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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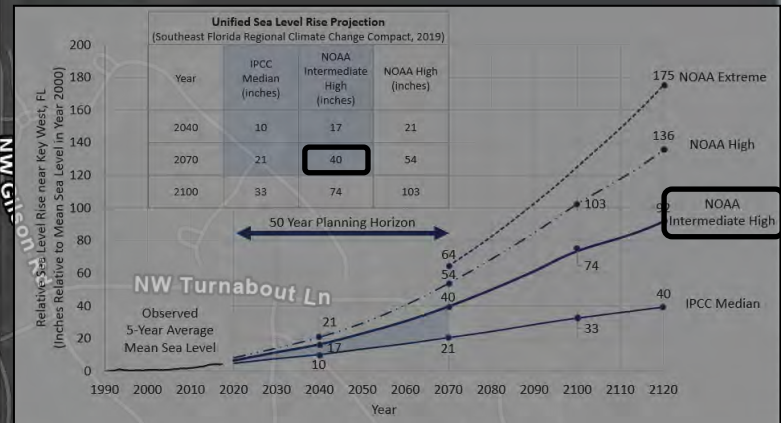
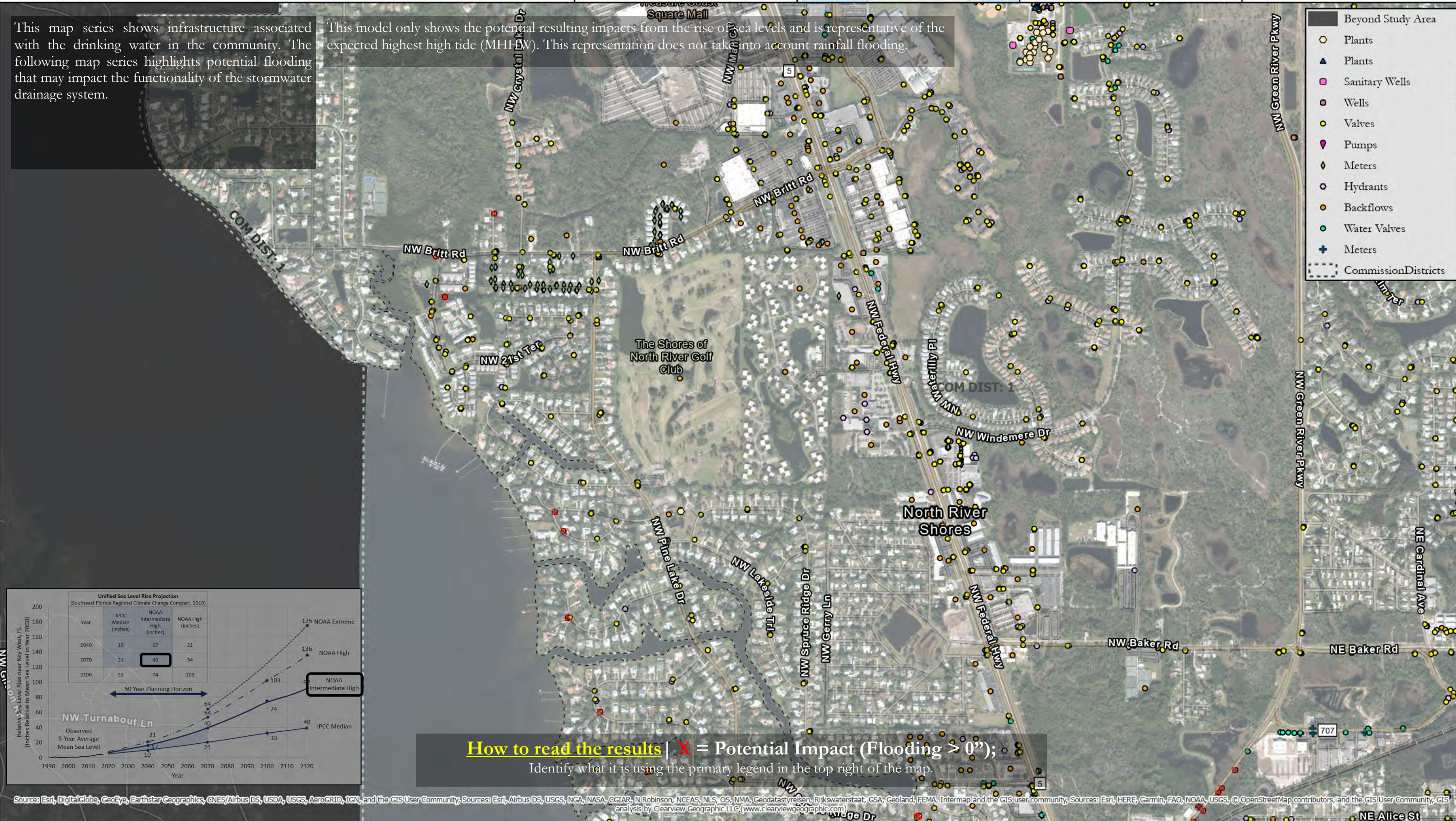
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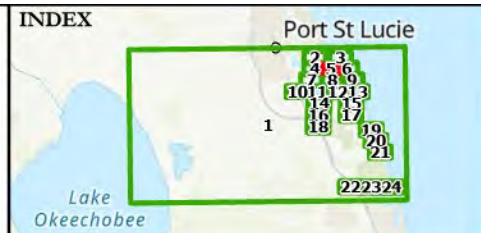
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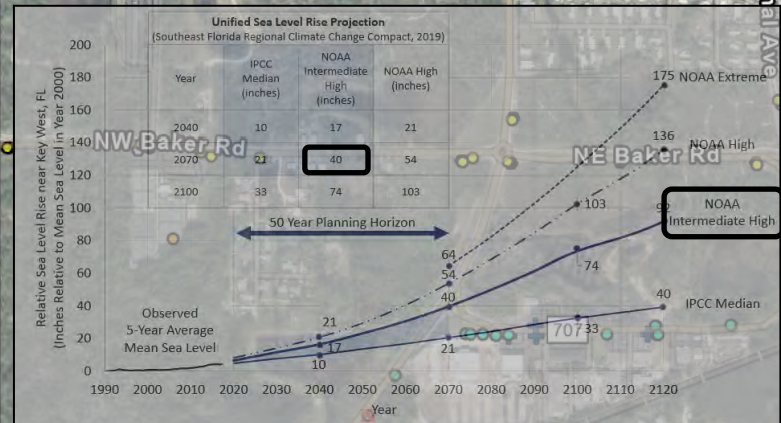
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- Sanitary Wells
- Wells
- Valves
- ◆ Meters
- Hydrants
- Backflows
- Water Valves
- + Meters
- Commission Districts



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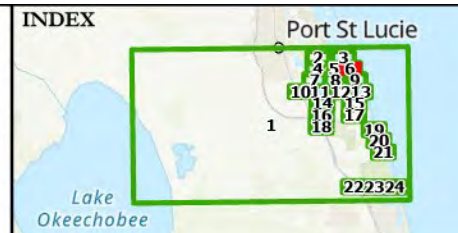
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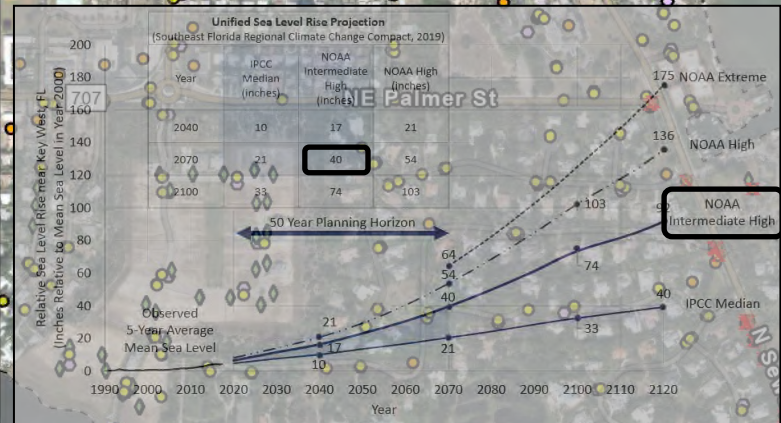


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- Valves
- ◆ Meters
- Hydrants
- Backflows
- Commission Districts

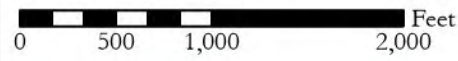


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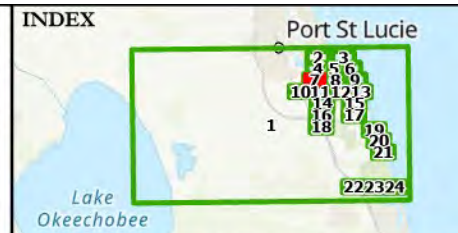
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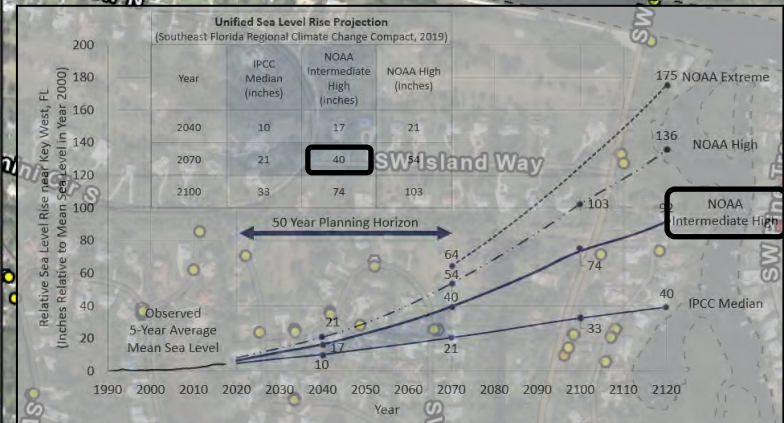
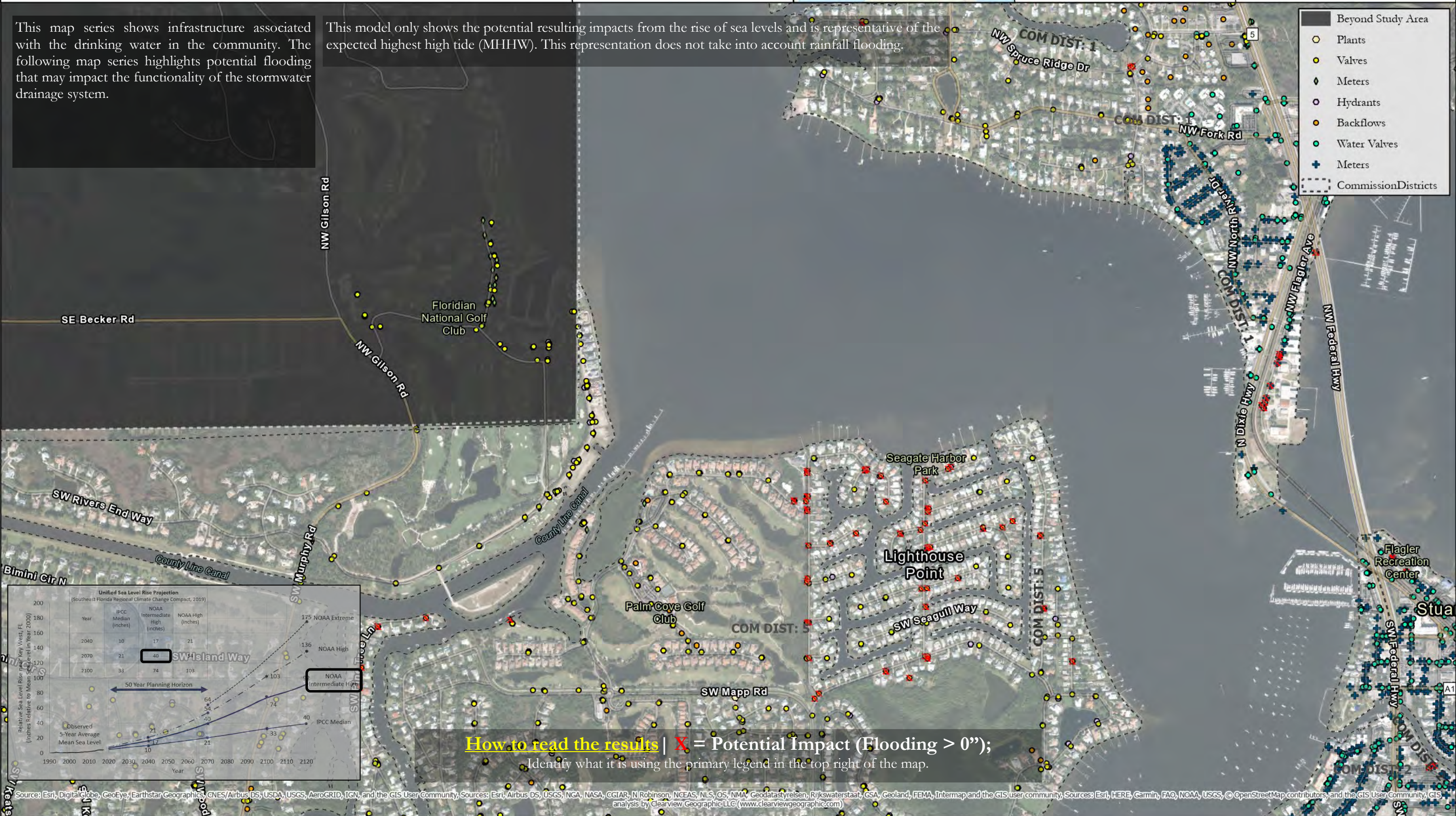
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- Beyond Study Area
- Plants
- Valves
- ◇ Meters
- Hydrants
- Backflows
- Water Valves
- + Meters
- Commission Districts

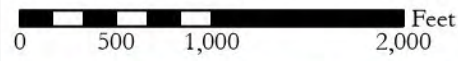


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Potable Water Vulnerability

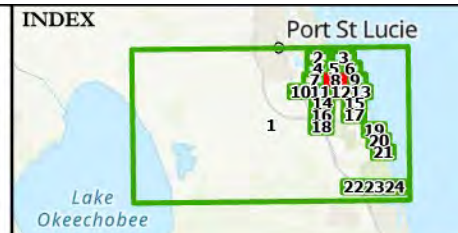
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PROJECT PARTNERS

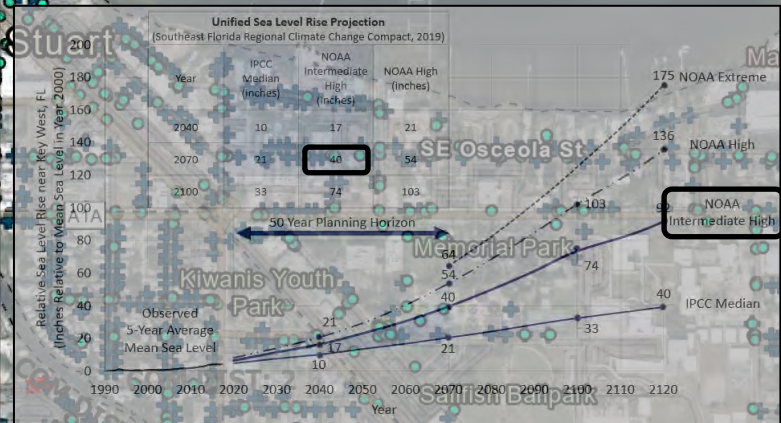
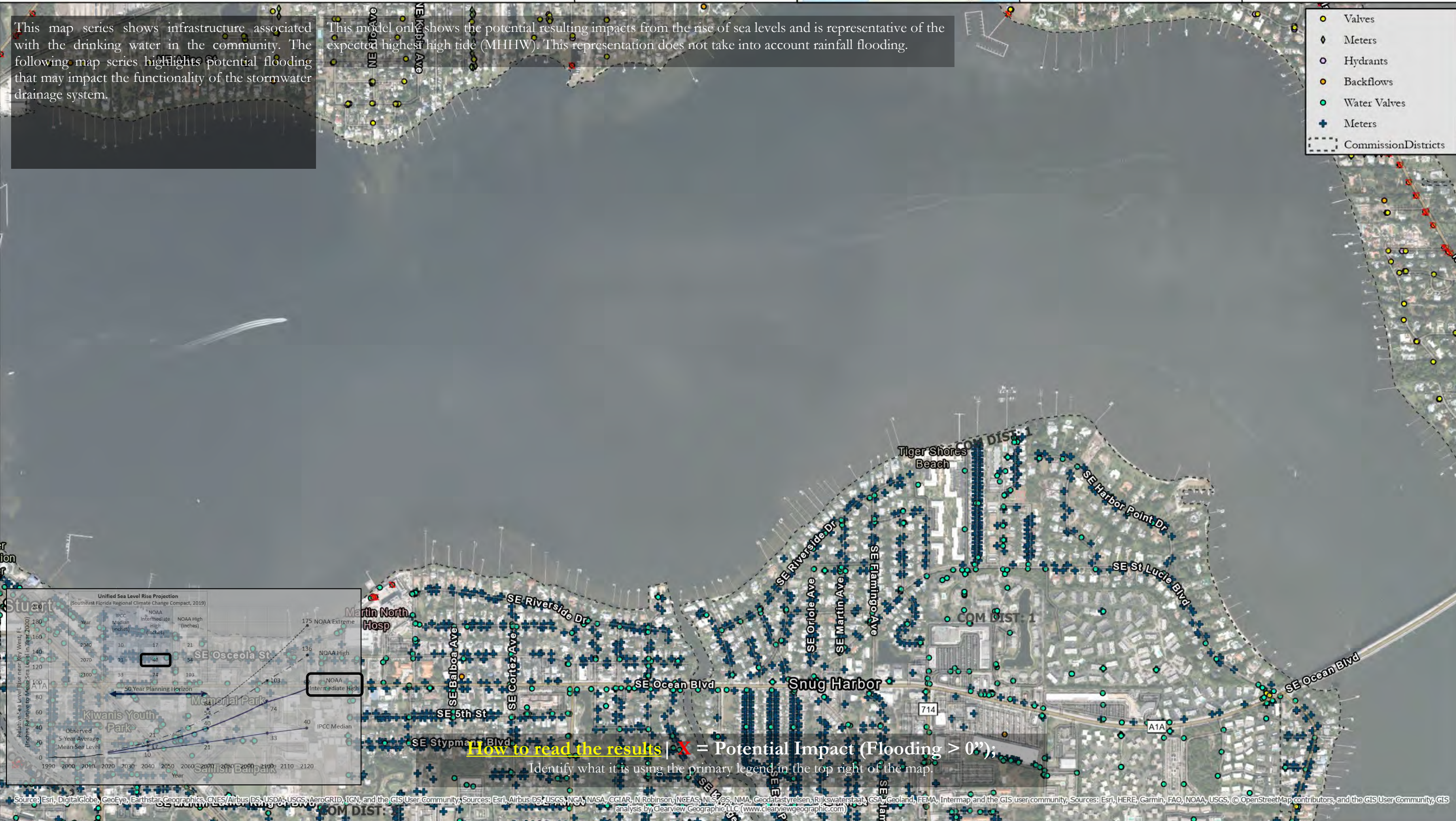


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- Commission Districts



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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, INGEAS, NLS, OS, NMA, Geodastysreisen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community; Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Potable Water Vulnerability

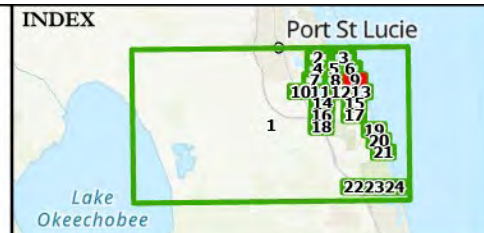
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Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 9 of 24



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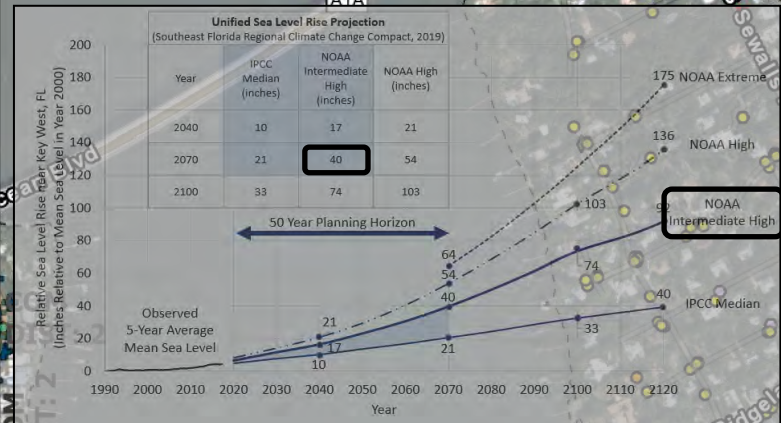


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- Plants
- Sanitary Wells
- Valves
- Meters
- Hydrants
- Backflows
- Water Valves
- Meters
- Commission Districts

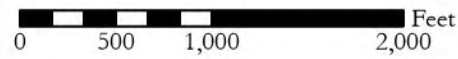


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Potable Water Vulnerability

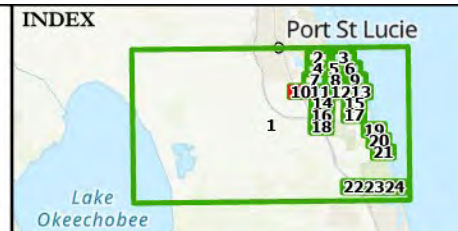
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 10 of 24



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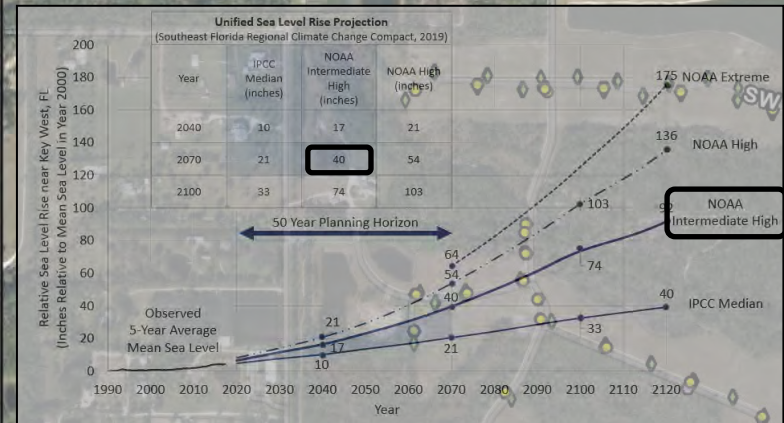
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- Plants
- Sanitary Wells
- Valves
- Meters
- Hydrants
- Backflows
- Commission Districts

NO DETECTABLE IMPACTS

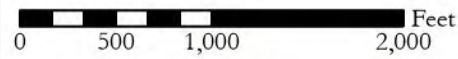


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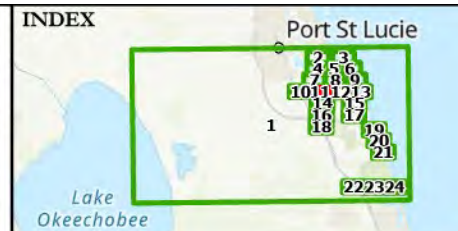
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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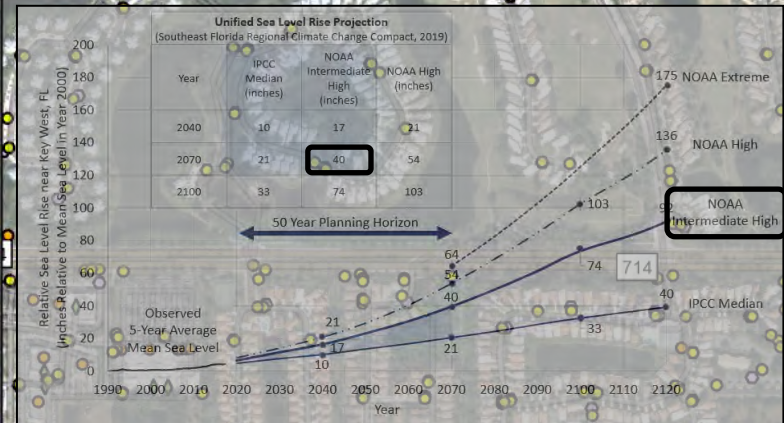
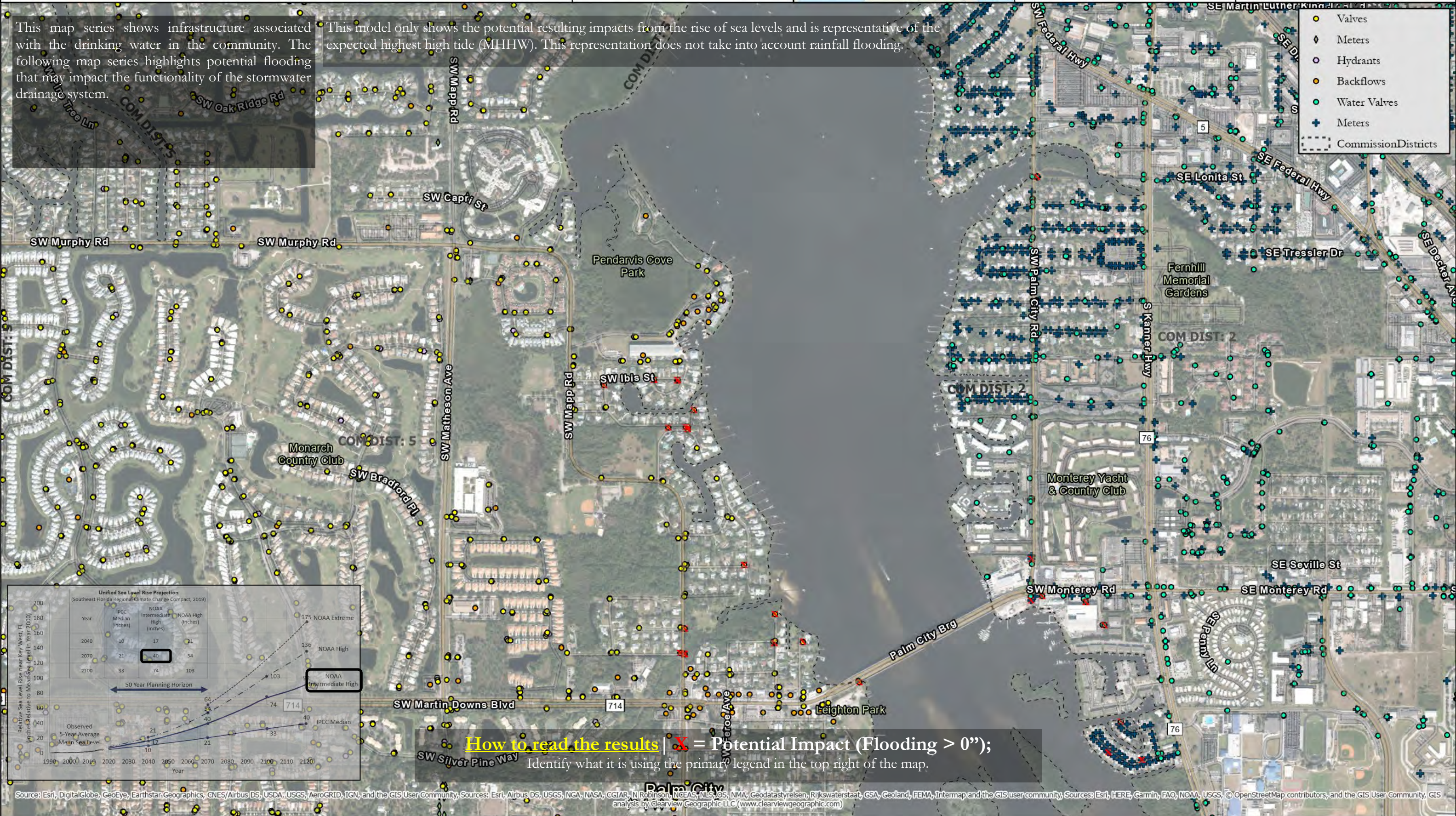


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- Valves
- ◆ Meters
- Hydrants
- Backflows
- Water Valves
- + Meters
- Commission Districts

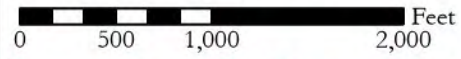


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Potable Water Vulnerability

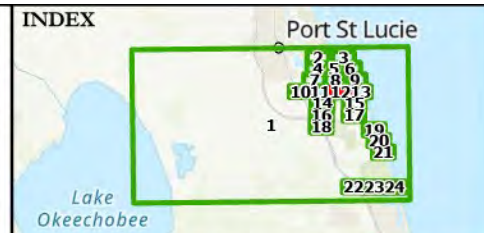
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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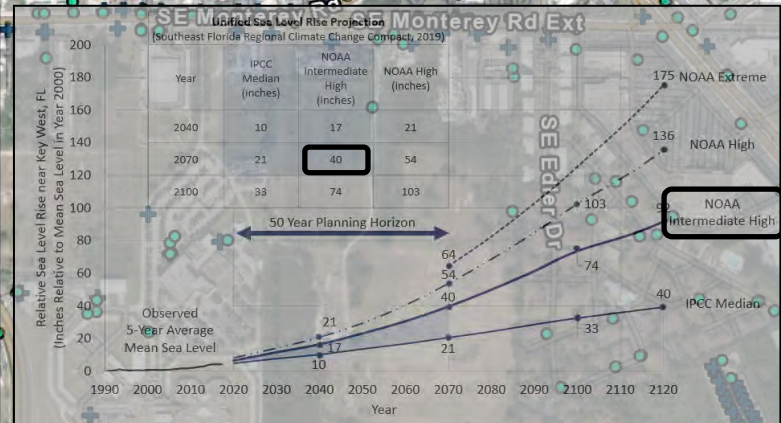


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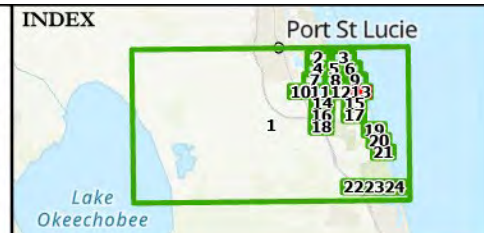
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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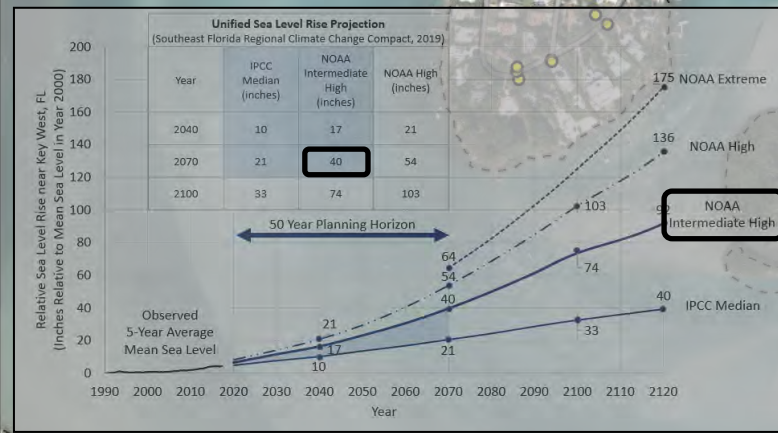
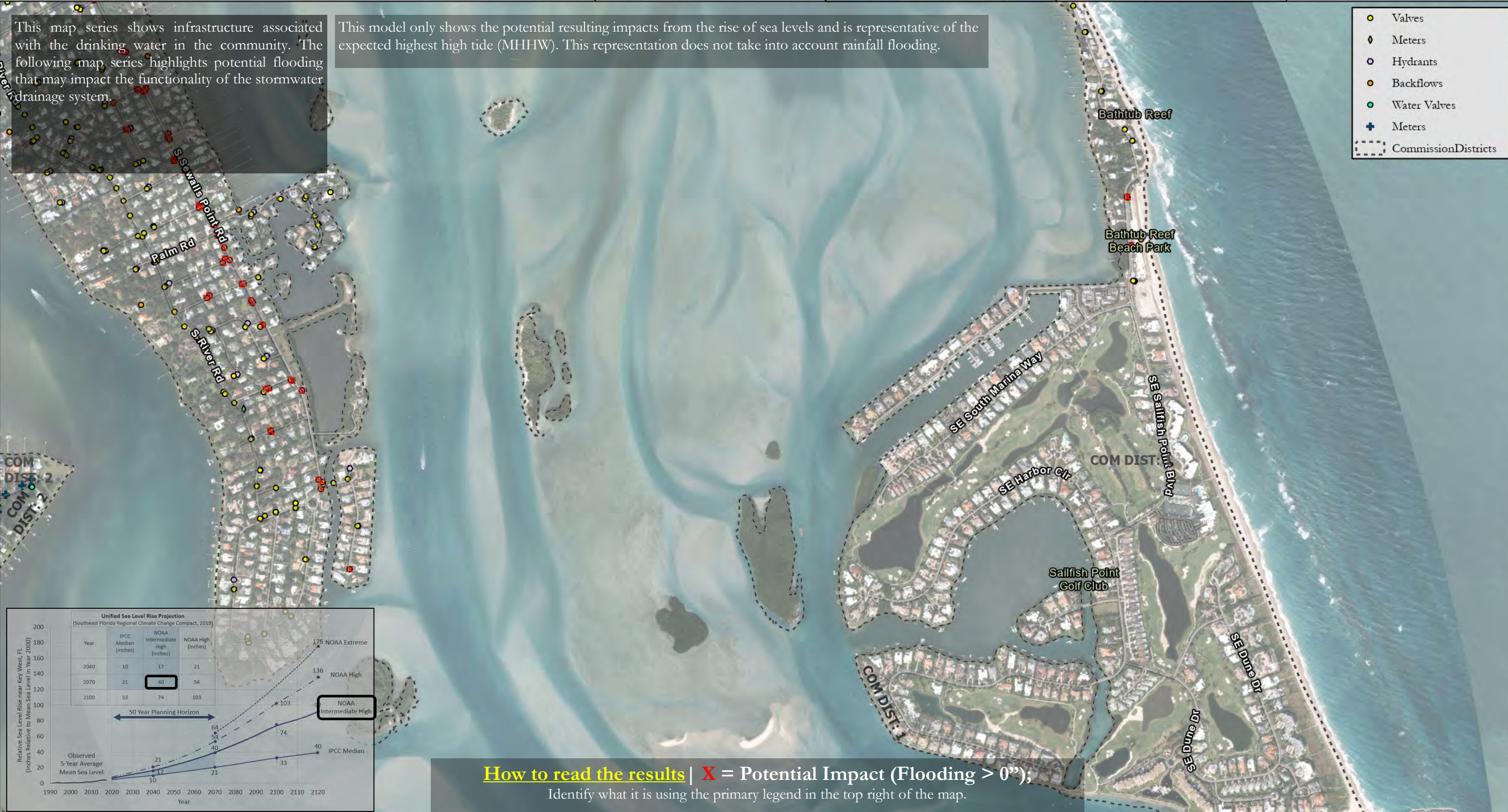
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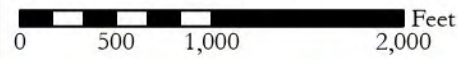
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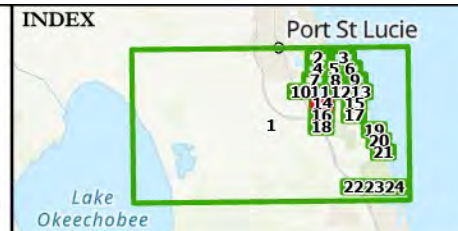
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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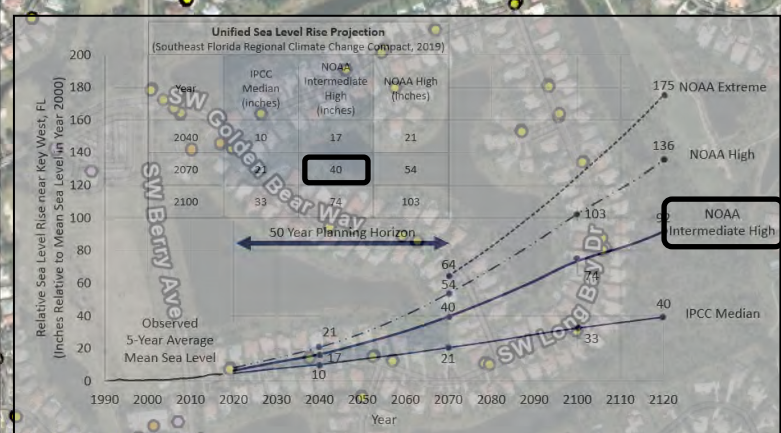
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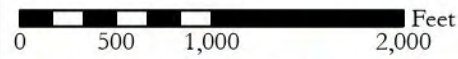


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Potable Water Vulnerability

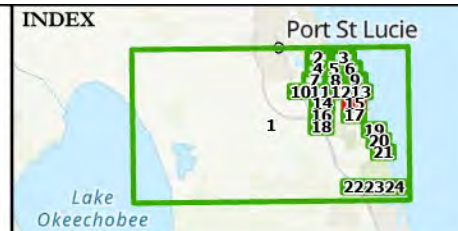
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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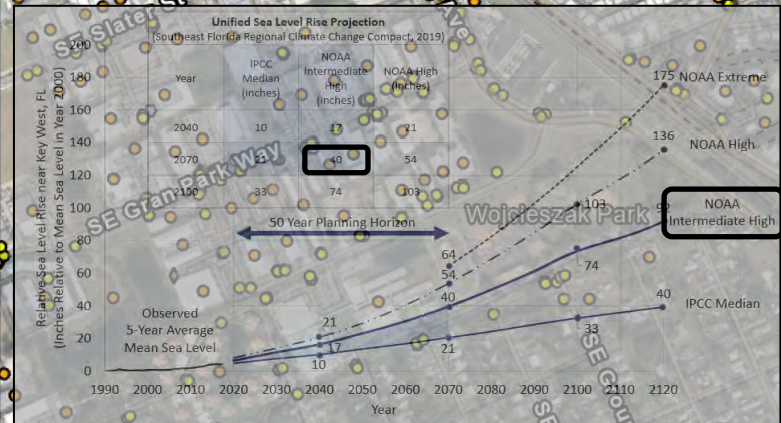


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- Sanitary Wells
- Wells
- Valves
- ◆ Meters
- Hydrants
- Backflows
- Water Valves
- Commission Districts



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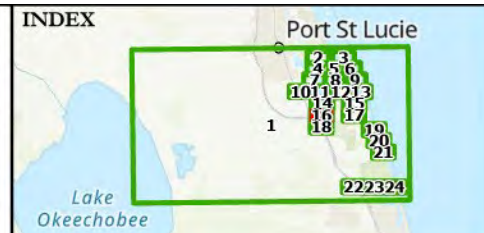
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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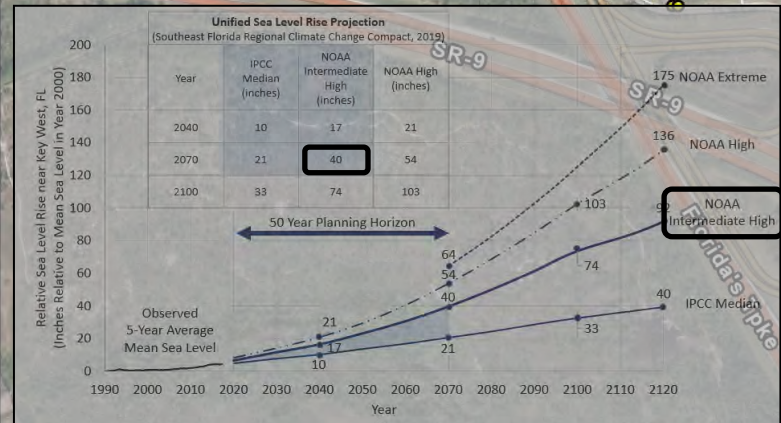
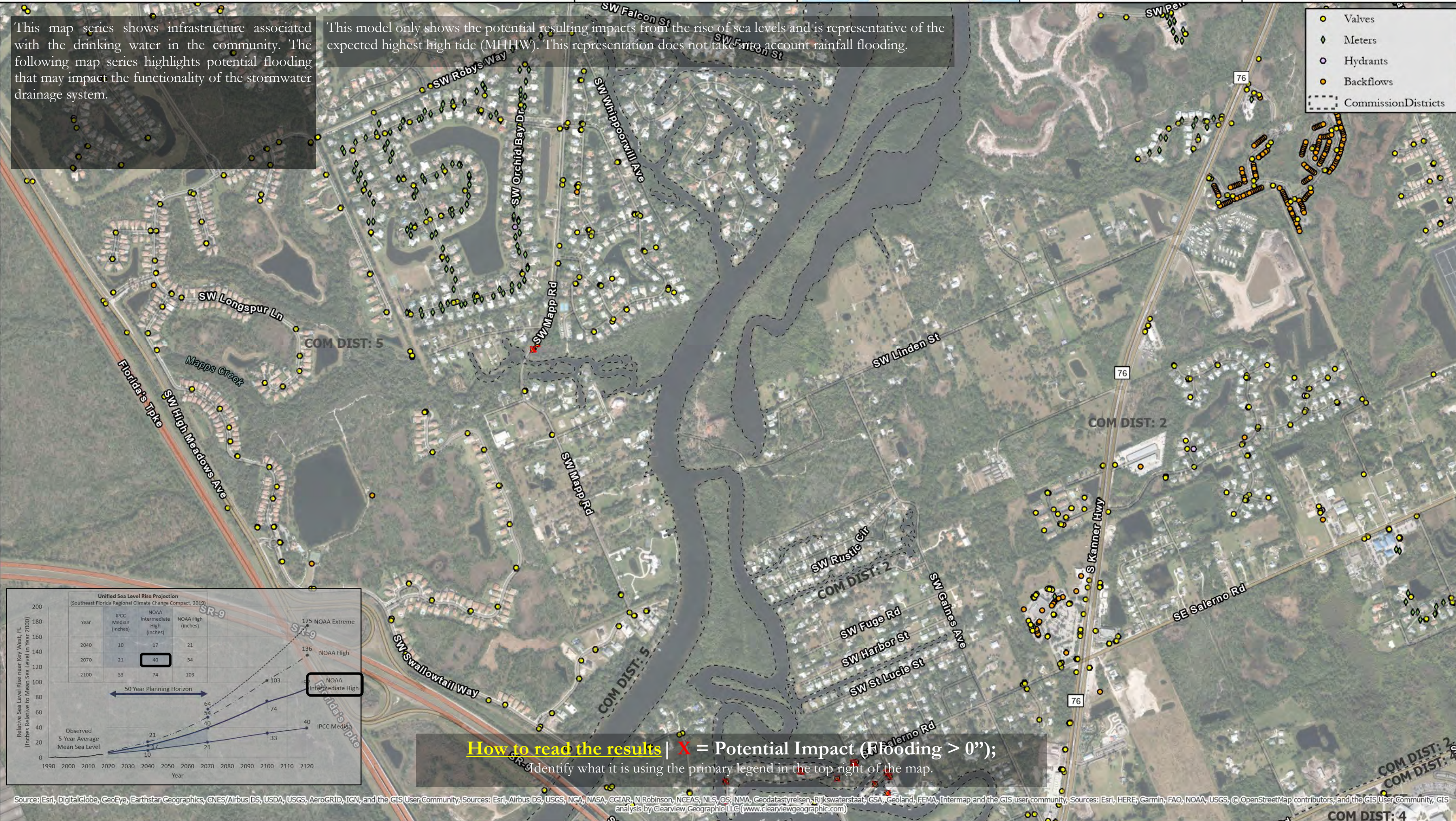


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- Valves
- Meters
- Hydrants
- Backflows
- Commission Districts



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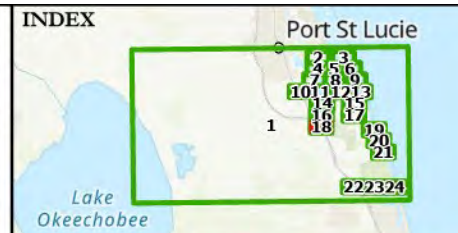
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 18 of 24



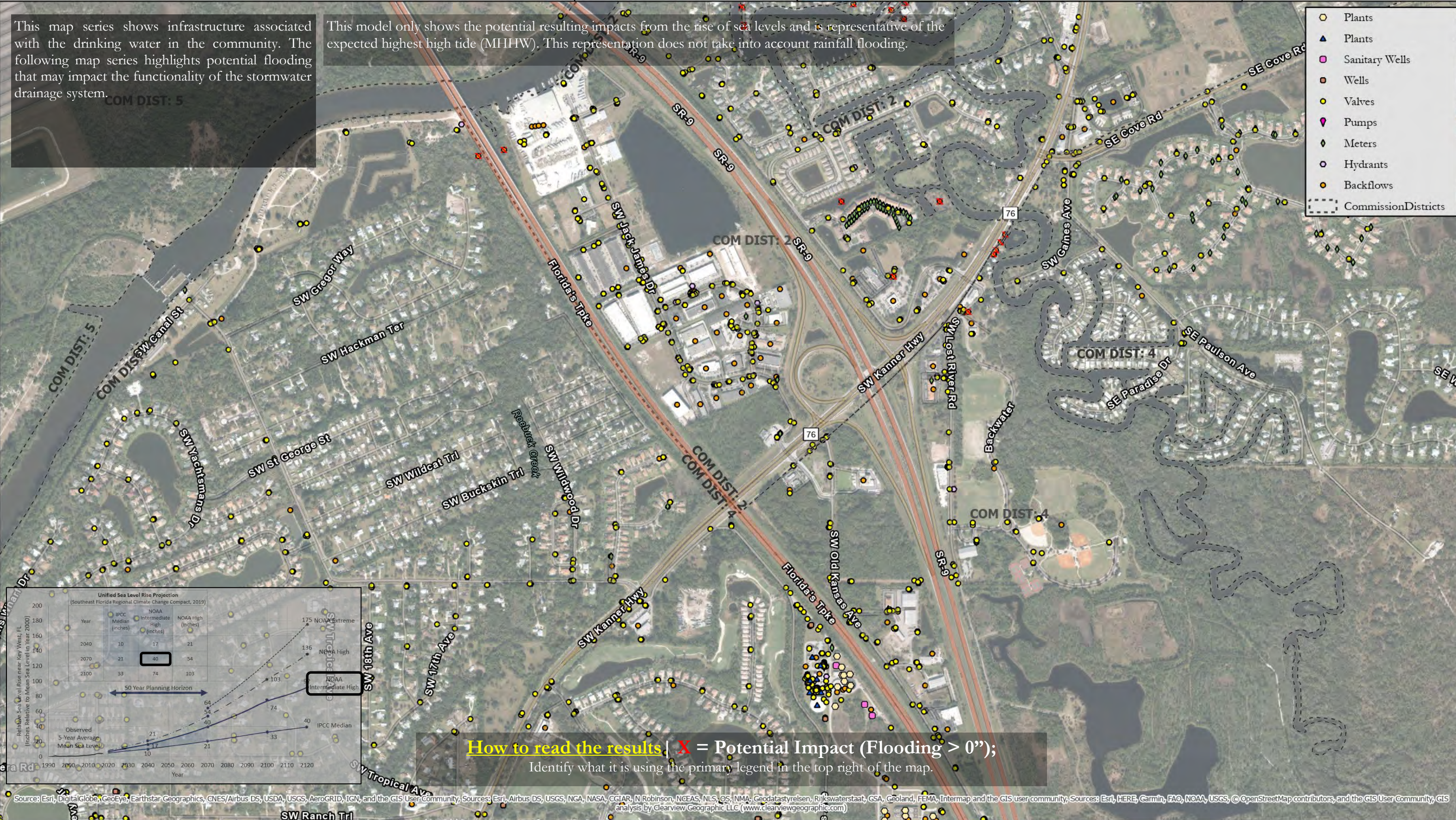
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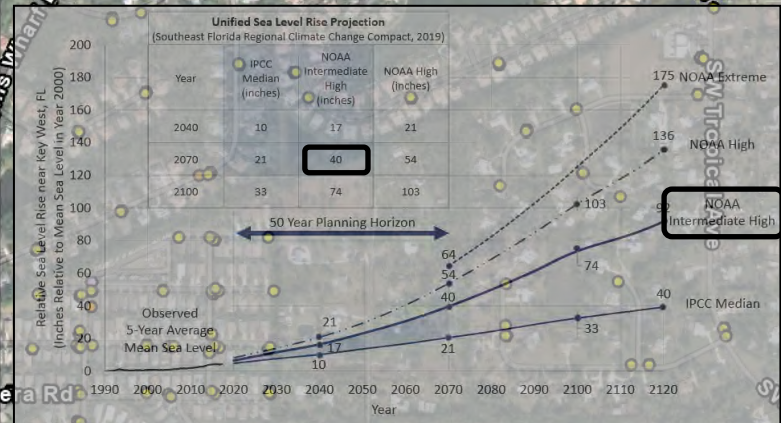
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- Plants
- Plants
- Sanitary Wells
- Wells
- Valves
- Pumps
- Meters
- Hydrants
- Backflows
- Commission Districts



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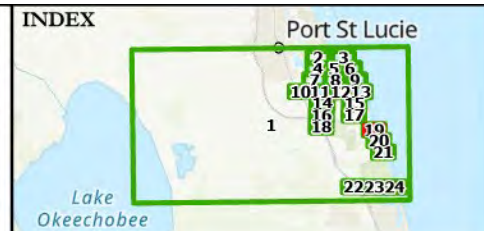
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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PROJECT PARTNERS



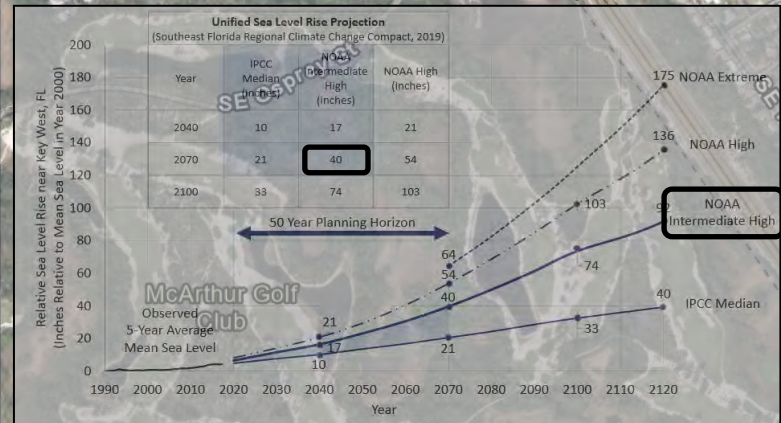
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- Wells
- Commission Districts

NO DETECTABLE IMPACTS



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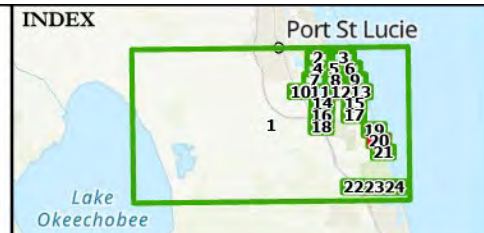
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Water Rise (Inches): Approx. 40
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PROJECT PARTNERS



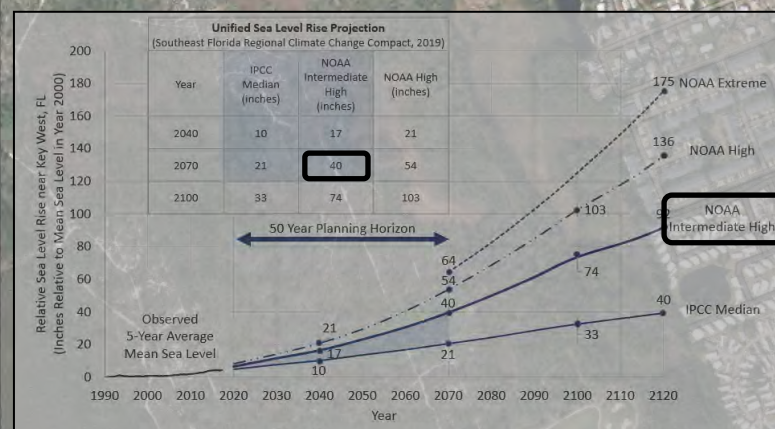
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NO DETECTABLE IMPACTS



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Potable Water Vulnerability

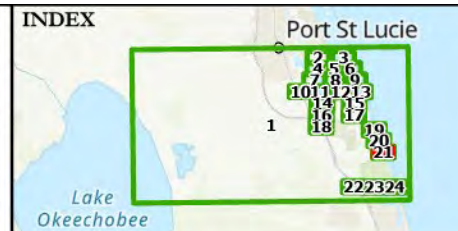
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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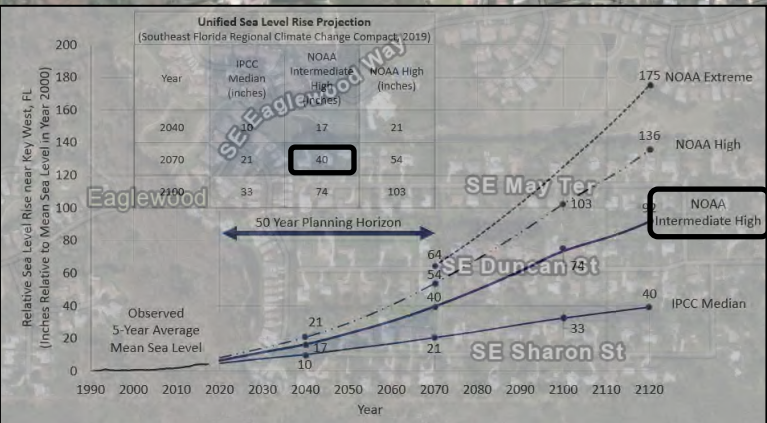
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Potable Water Vulnerability

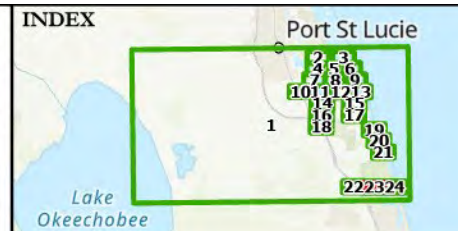
R1911 Resiliency Planning Grant
Martin County, Florida



Clark 06/03/2020 Z:/1836B



Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 23 of 24



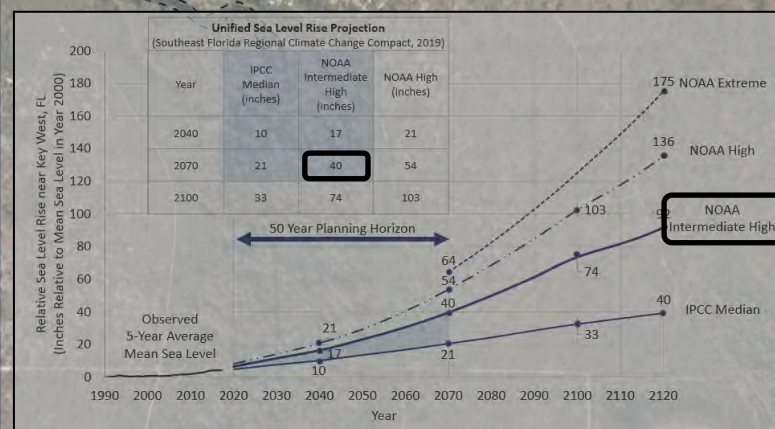
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DeLand, Florida 32720
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This map series shows infrastructure associated with the drinking water in the community. The following map series highlights potential flooding that may impact the functionality of the stormwater drainage system.

This model only shows the potential resulting impacts from the rise of sea levels and is representative of the expected highest high tide (MHHW). This representation does not take into account rainfall flooding.

- Beyond Study Area
- Wells
- Commission Districts

NO DETECTABLE IMPACTS



How to read the results | **X** = Potential Impact (Flooding > 0");

Identify what it is using the primary legend in the top right of the map.

Potable Water Vulnerability

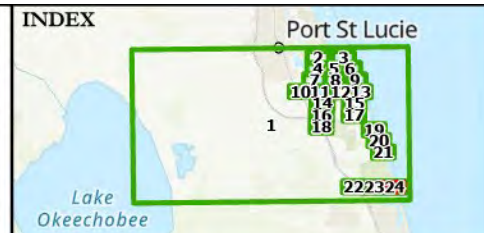
R1911 Resiliency Planning Grant
Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 24 of 24



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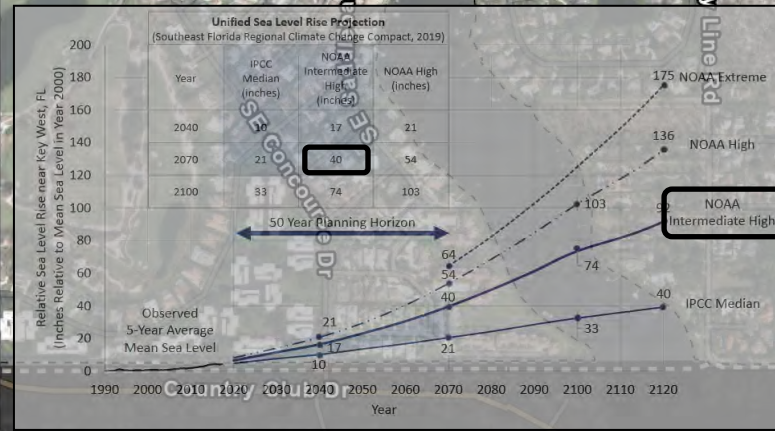
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- Beyond Study Area
- Wells
- Commission Districts

NO DETECTABLE IMPACTS



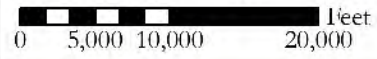
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Critical Infrastructure Vulnerability

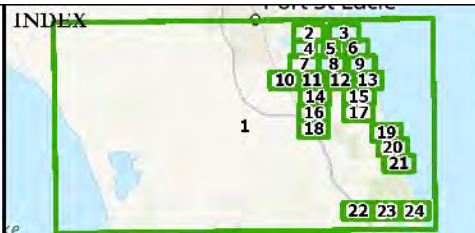
R1911 Resiliency Planning Grant
Martin County, Florida



AClark 06/23/2020 7:1836B



Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
Page: 1 of 24



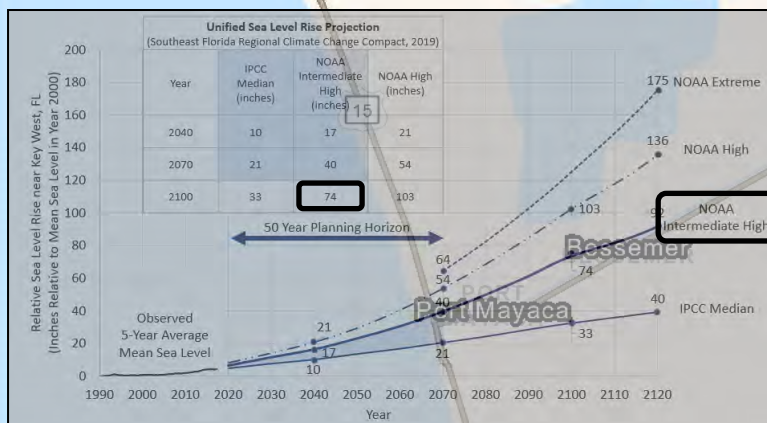
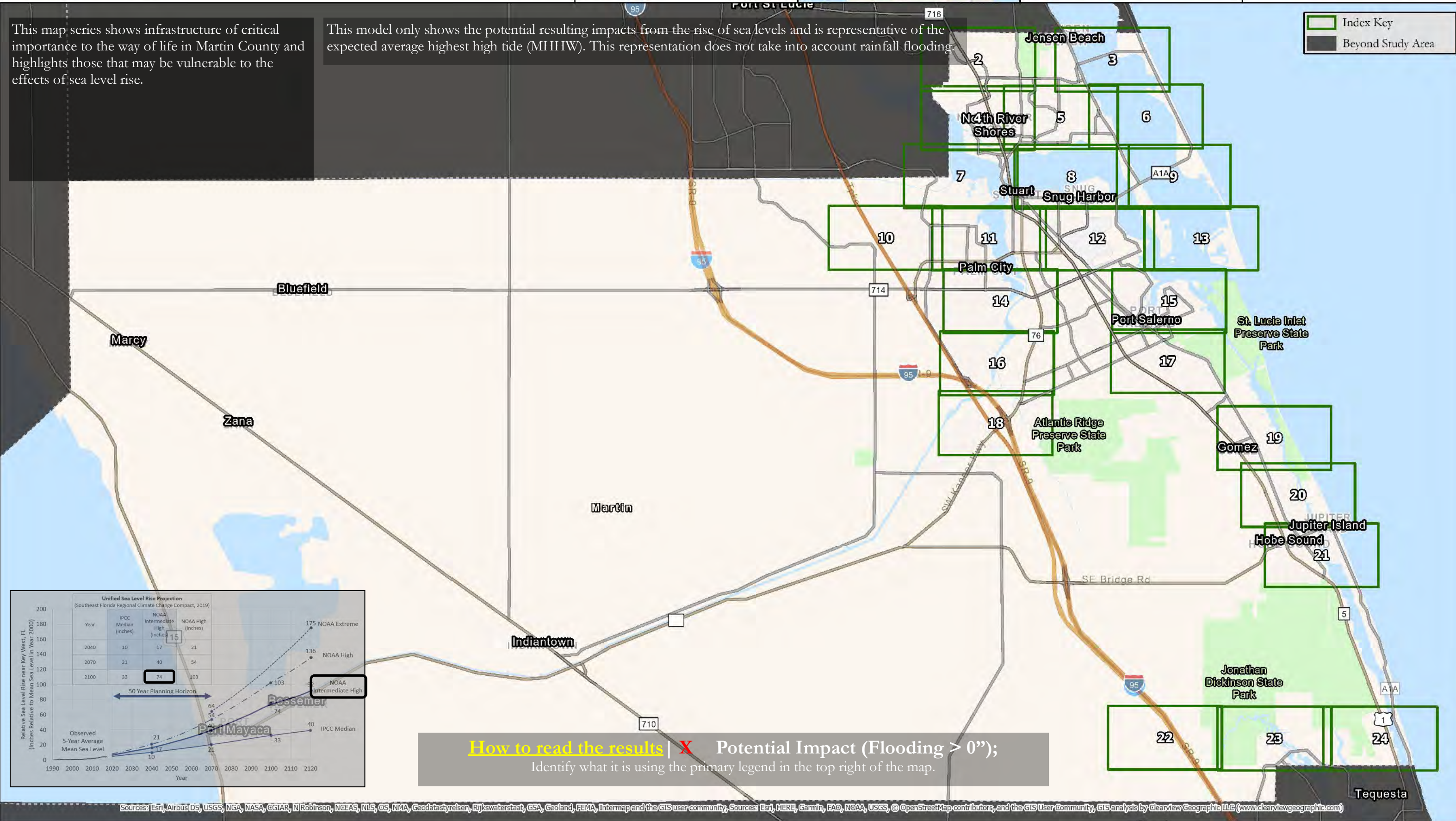
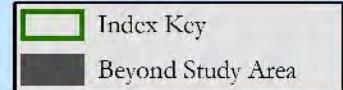
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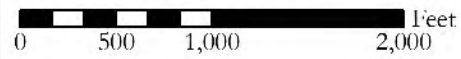


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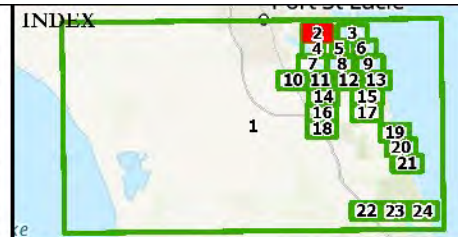
Critical Infrastructure Vulnerability

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Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHIHW
Page: 2 of 24



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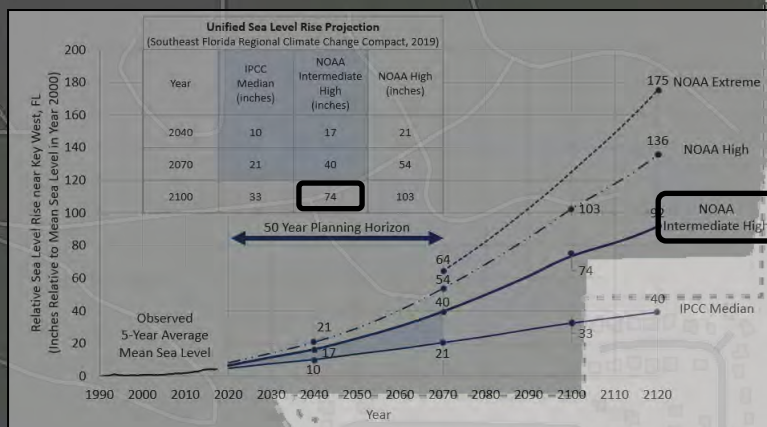
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- Beyond Study Area
- Commission Districts
- fire_hydrants
- Residential
- Schools
- Utility

NO DETECTABLE IMPACTS



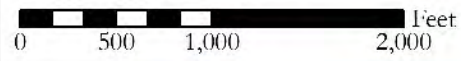
How to read the results | X = Potential Impact (Flooding > 0")

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Critical Infrastructure Vulnerability

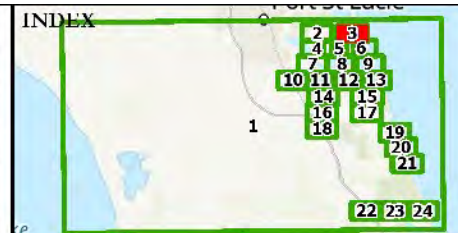
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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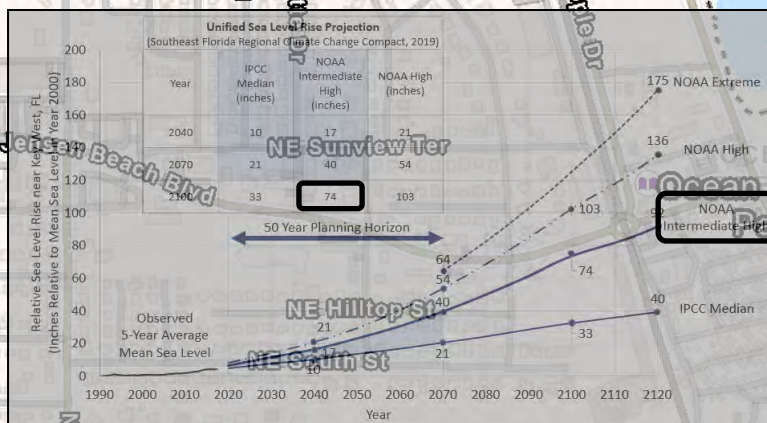
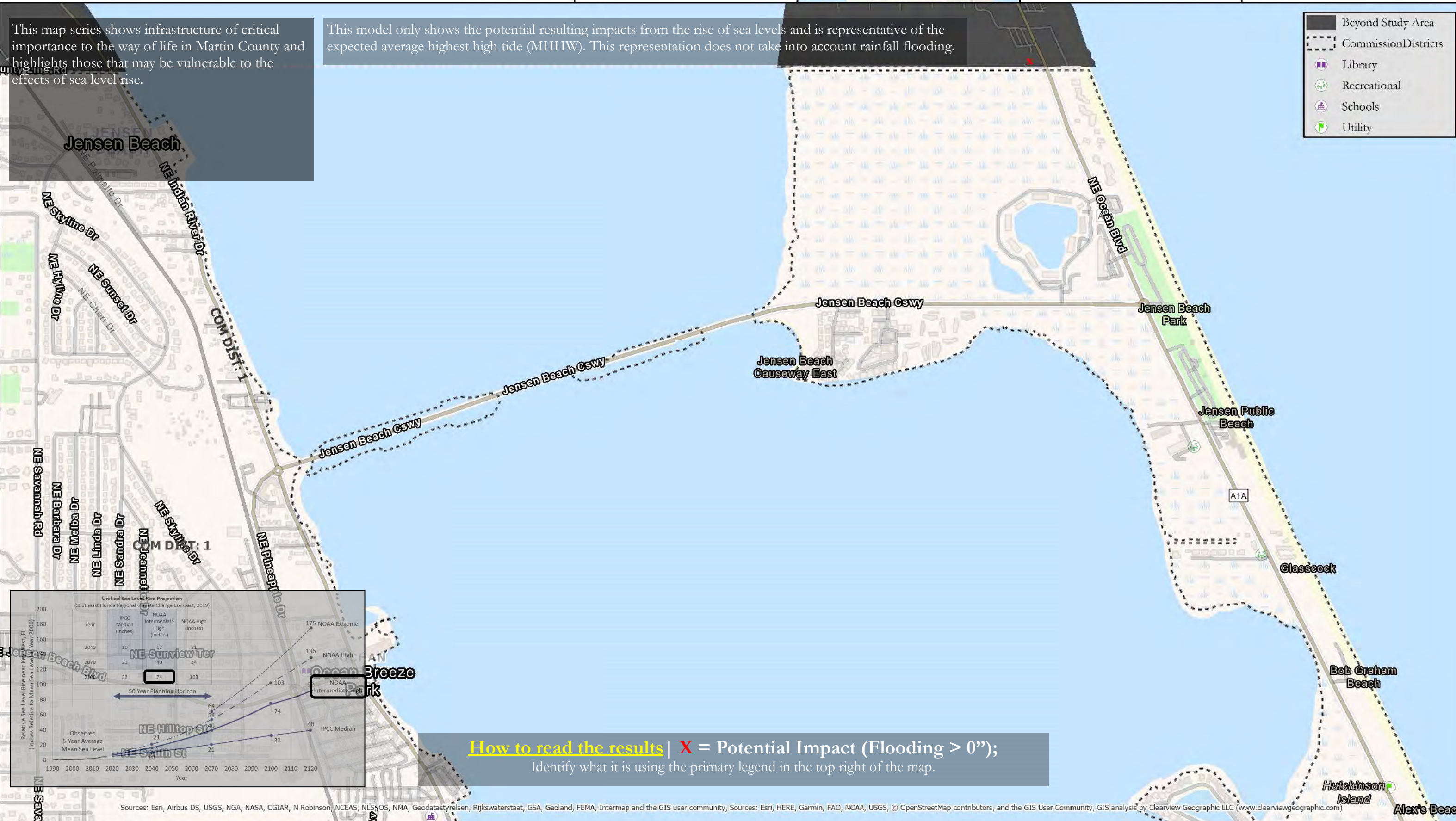


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- Beyond Study Area
- Commission Districts
- Library
- Recreational
- Schools
- Utility

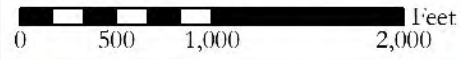


How to read the results | X = Potential Impact (Flooding > 0");
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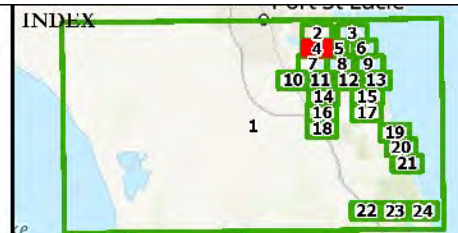
Critical Infrastructure Vulnerability

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Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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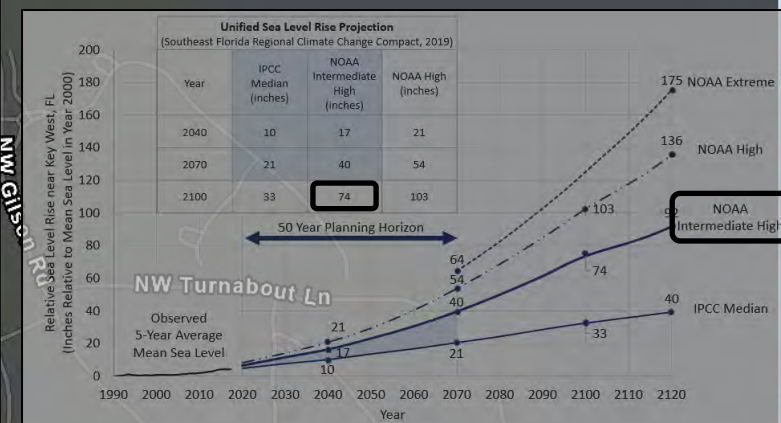
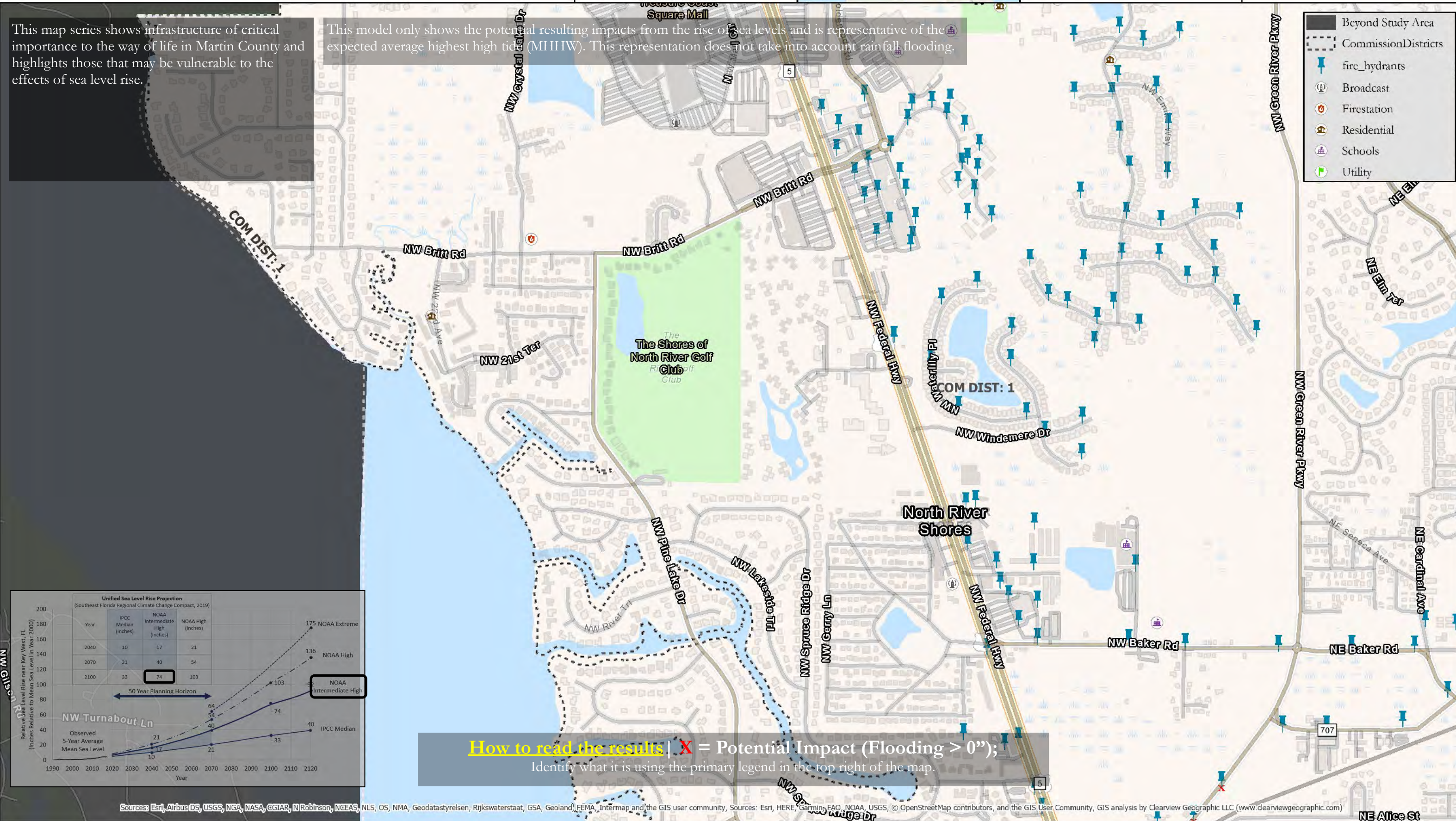
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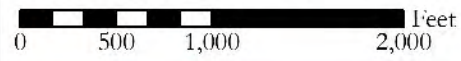


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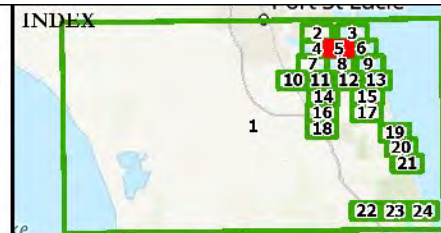
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Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
Page: 5 of 24



PROJECT PARTNERS

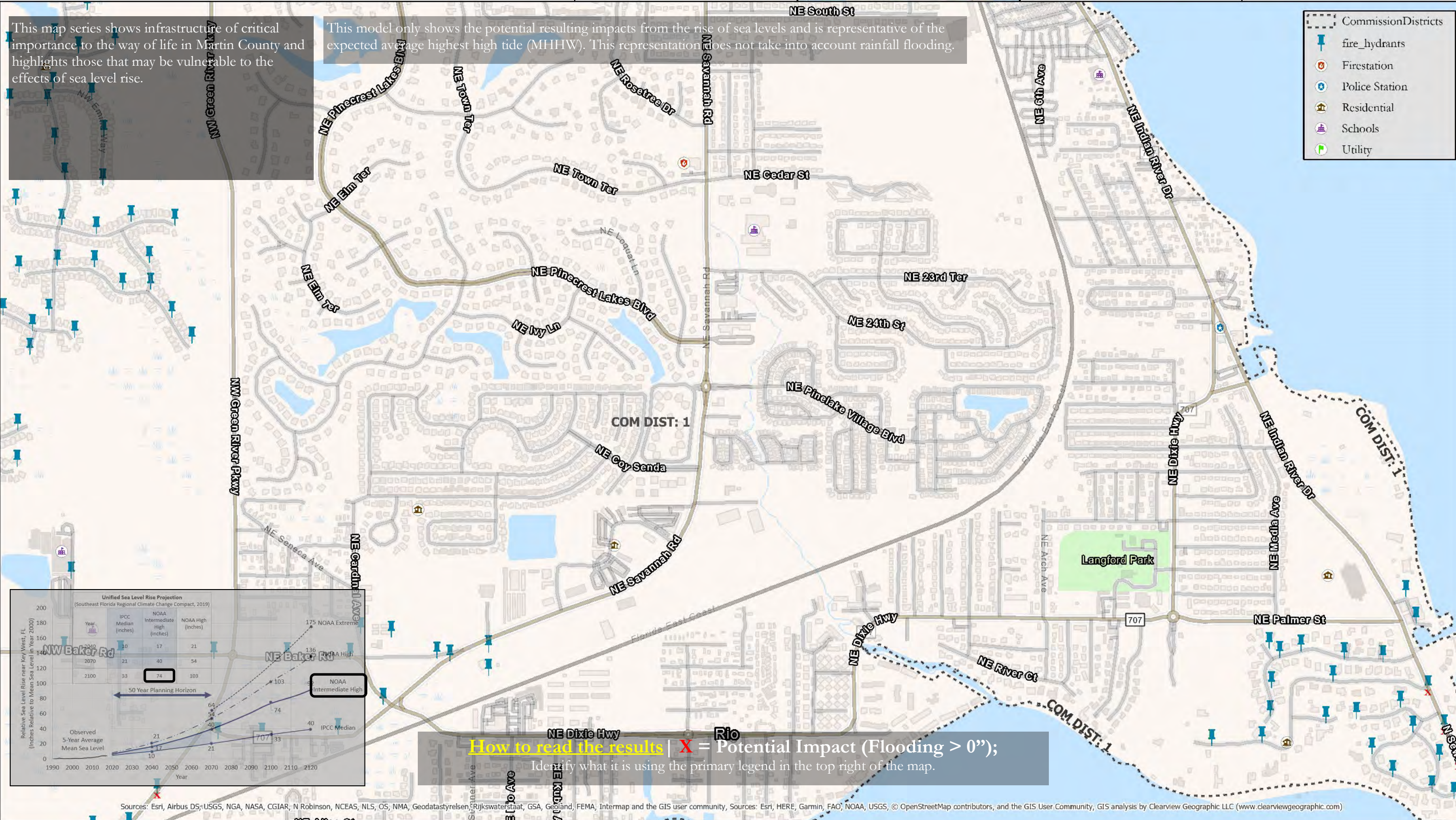


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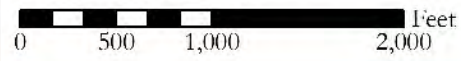
- Commission Districts
- fire_hydrants
- Firestation
- Police Station
- Residential
- Schools
- Utility



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

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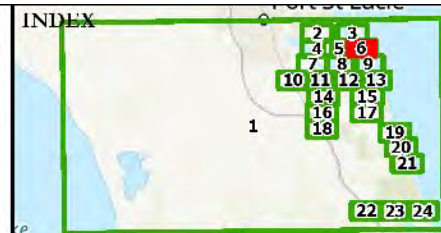
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
Page: 6 of 24



PROJECT PARTNERS

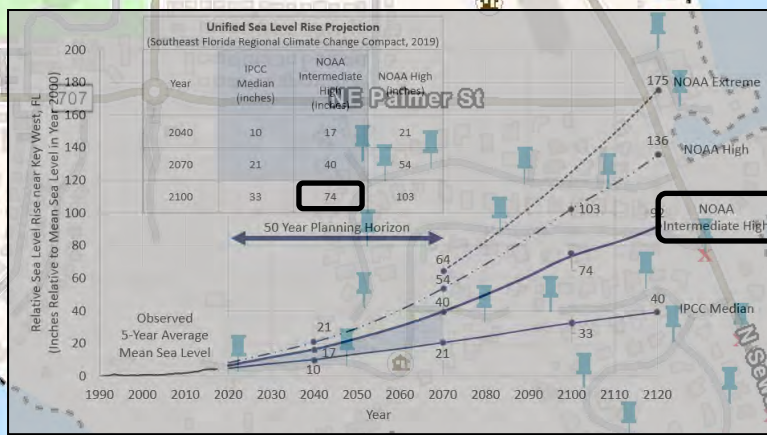
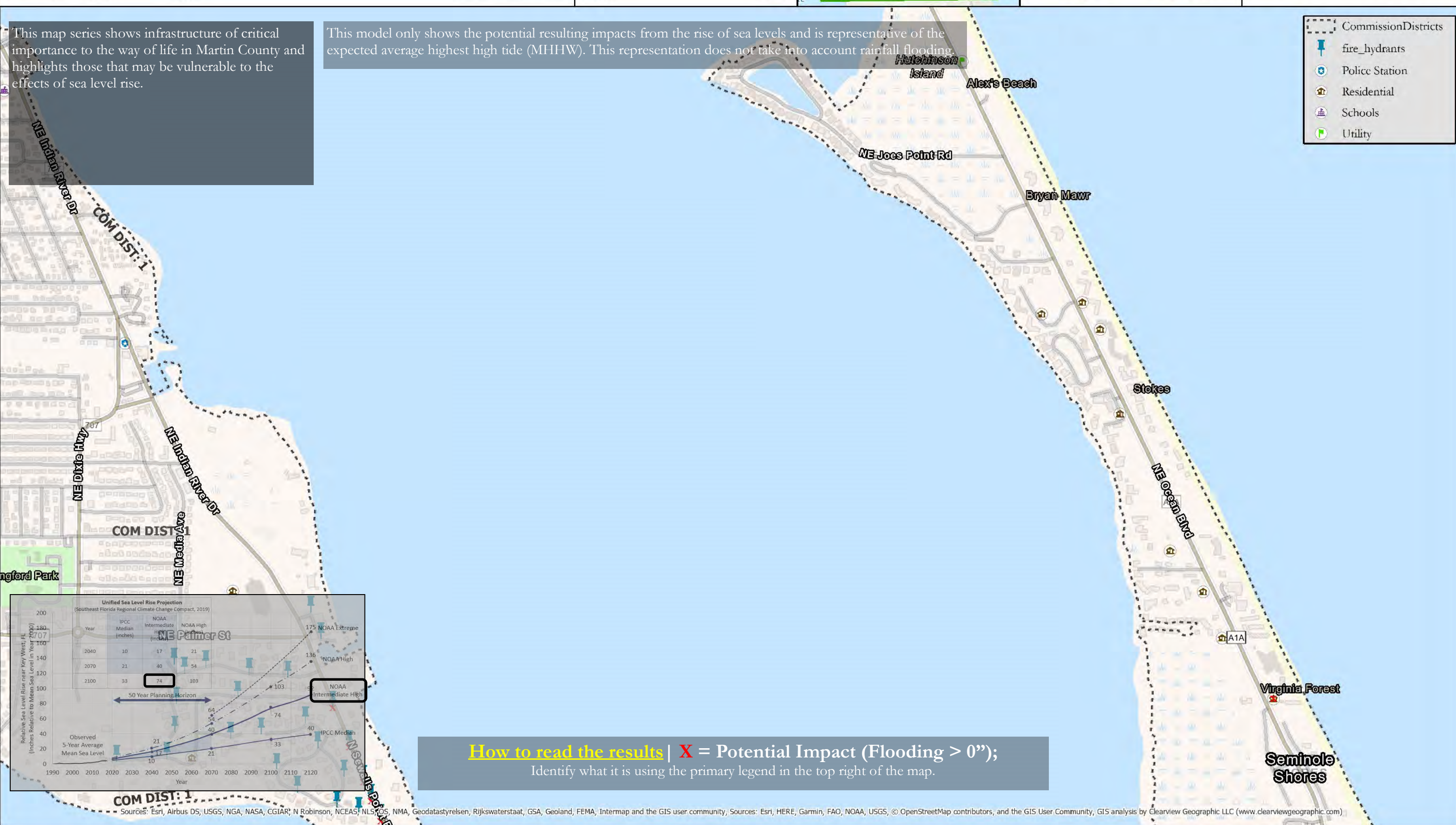


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- Commission Districts
- fire_hydrants
- Police Station
- Residential
- Schools
- Utility

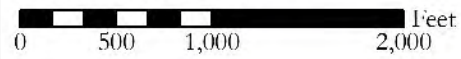


How to read the results | X = Potential Impact (Flooding > 0");
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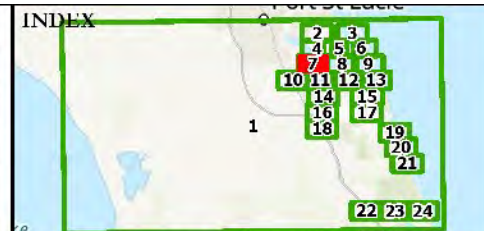
R1911 Resiliency Planning Grant
Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
Page: 7 of 24



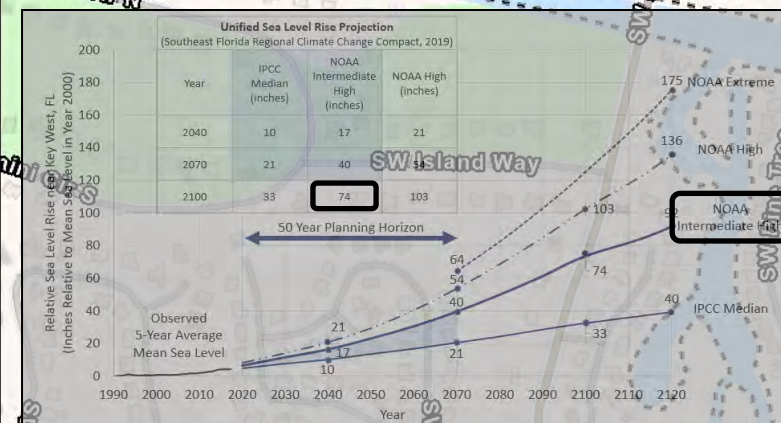
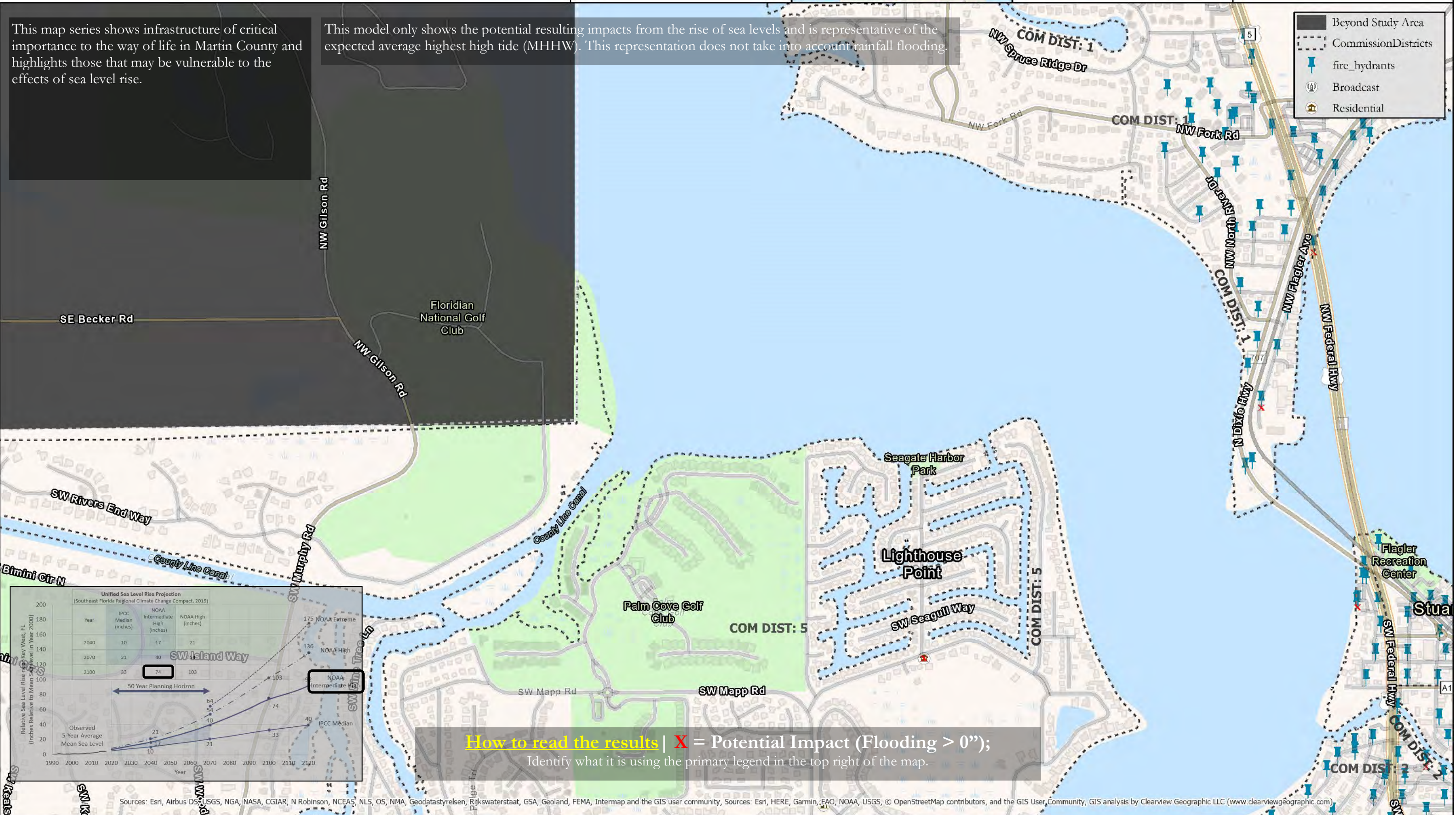
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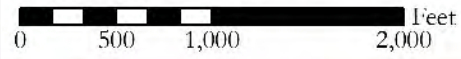


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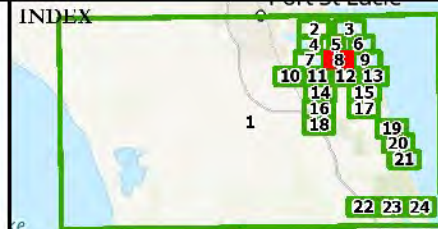
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
Page: 8 of 24



PROJECT PARTNERS

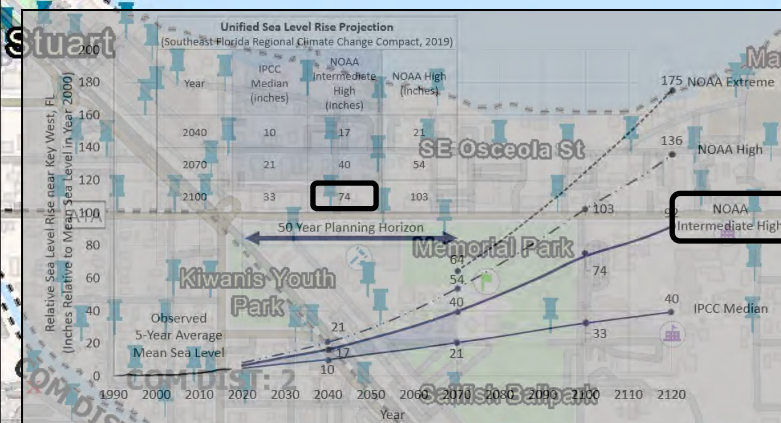
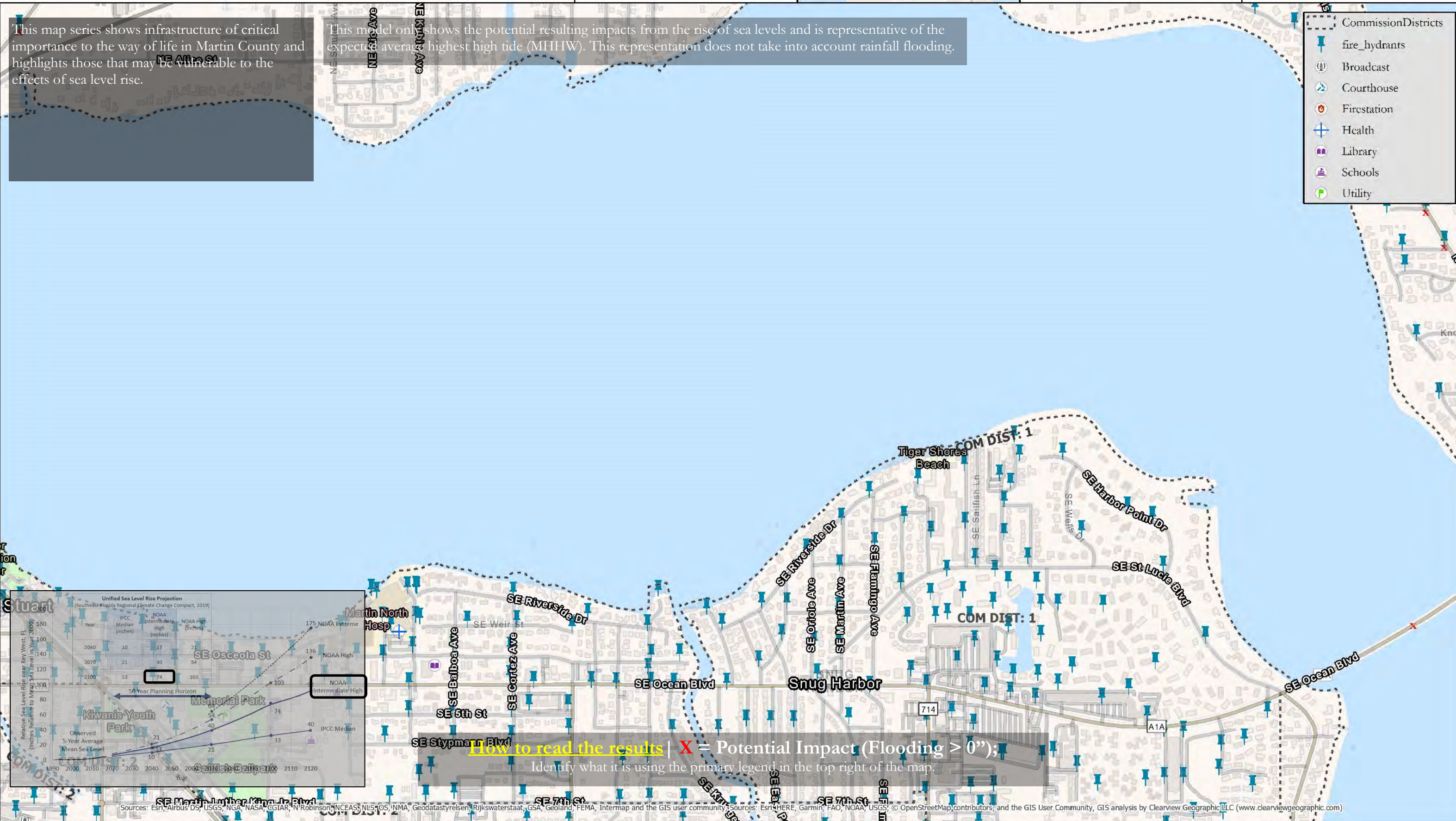


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- Commission Districts
- fire_hydrants
- Broadcast
- Courthouse
- Firestation
- Health
- Library
- Schools
- Utility

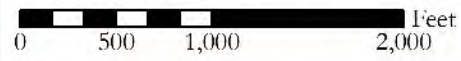


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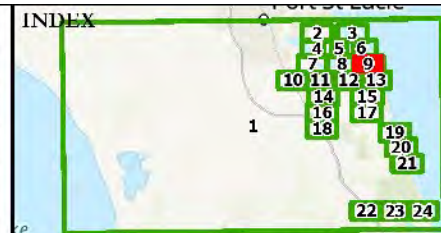
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
Scenario: MIIHW
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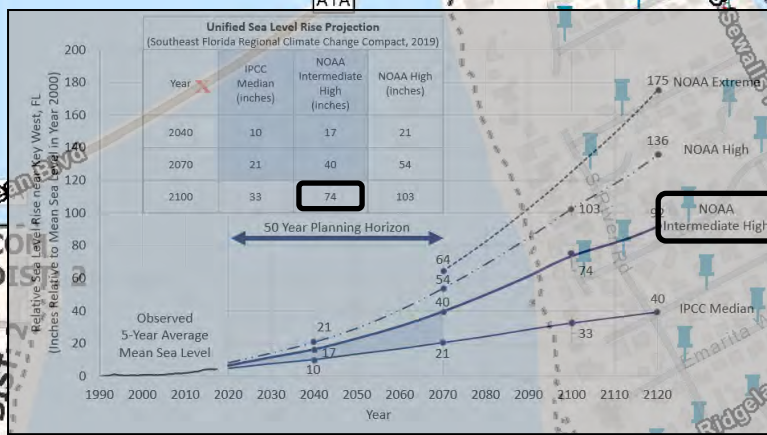
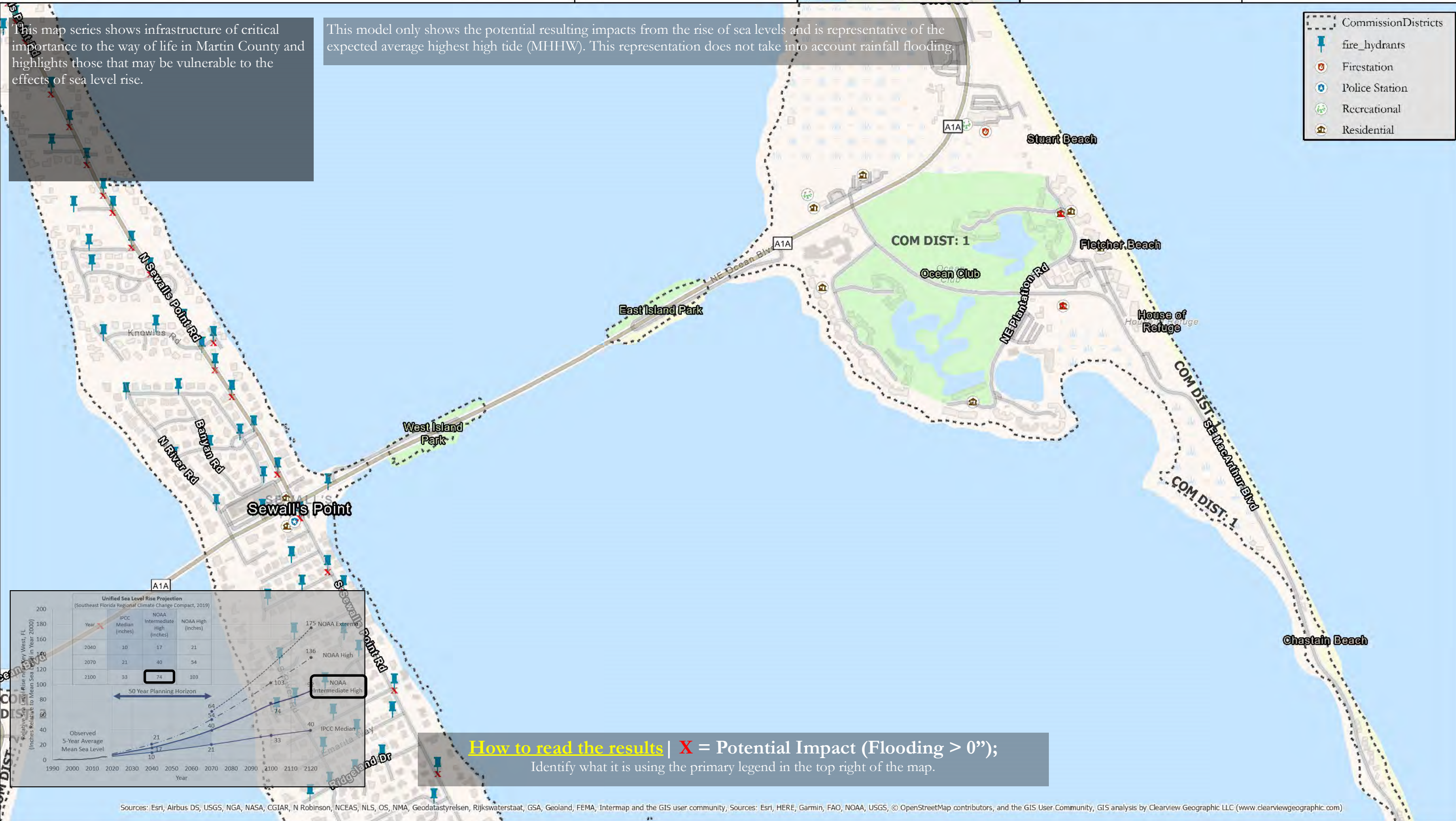


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- Commission Districts
- fire_hydrants
- Firestation
- Police Station
- Recreational
- Residential

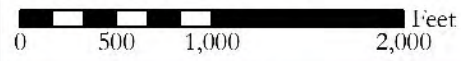


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Critical Infrastructure Vulnerability

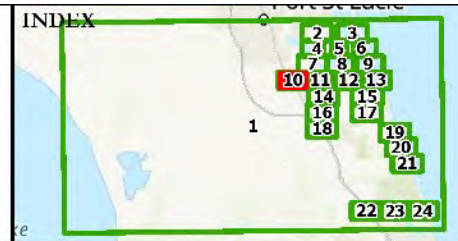
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Water Rise (Inches): Approx. 40
Scenario: MHHW
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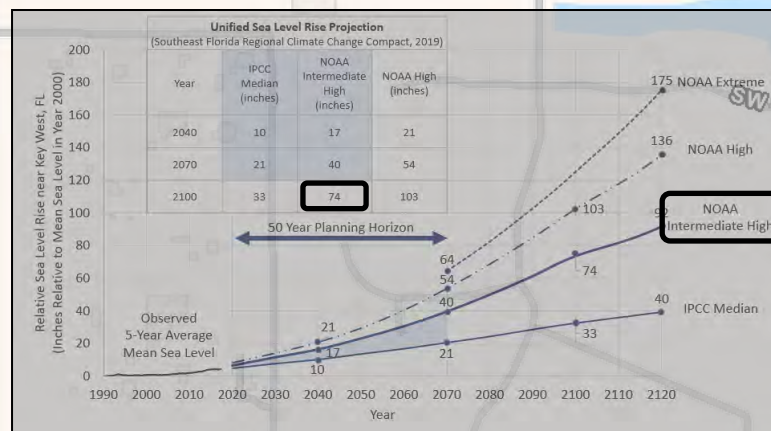
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- Commission Districts
- Residential
- Schools
- Utility

NO DETECTABLE IMPACTS

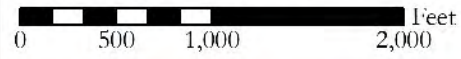
How to read the results | **X** = Potential Impact (Flooding > 0)
Identify what it is using the primary legend in the top right of the map.



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Critical Infrastructure Vulnerability

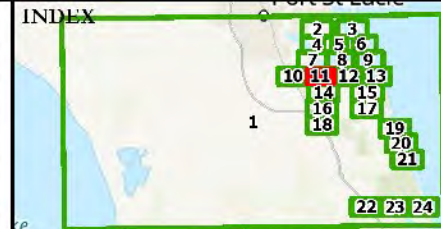
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Martin County, Florida



AClark 06/23/2020 Z:/1836B



Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
Page: 11 of 24



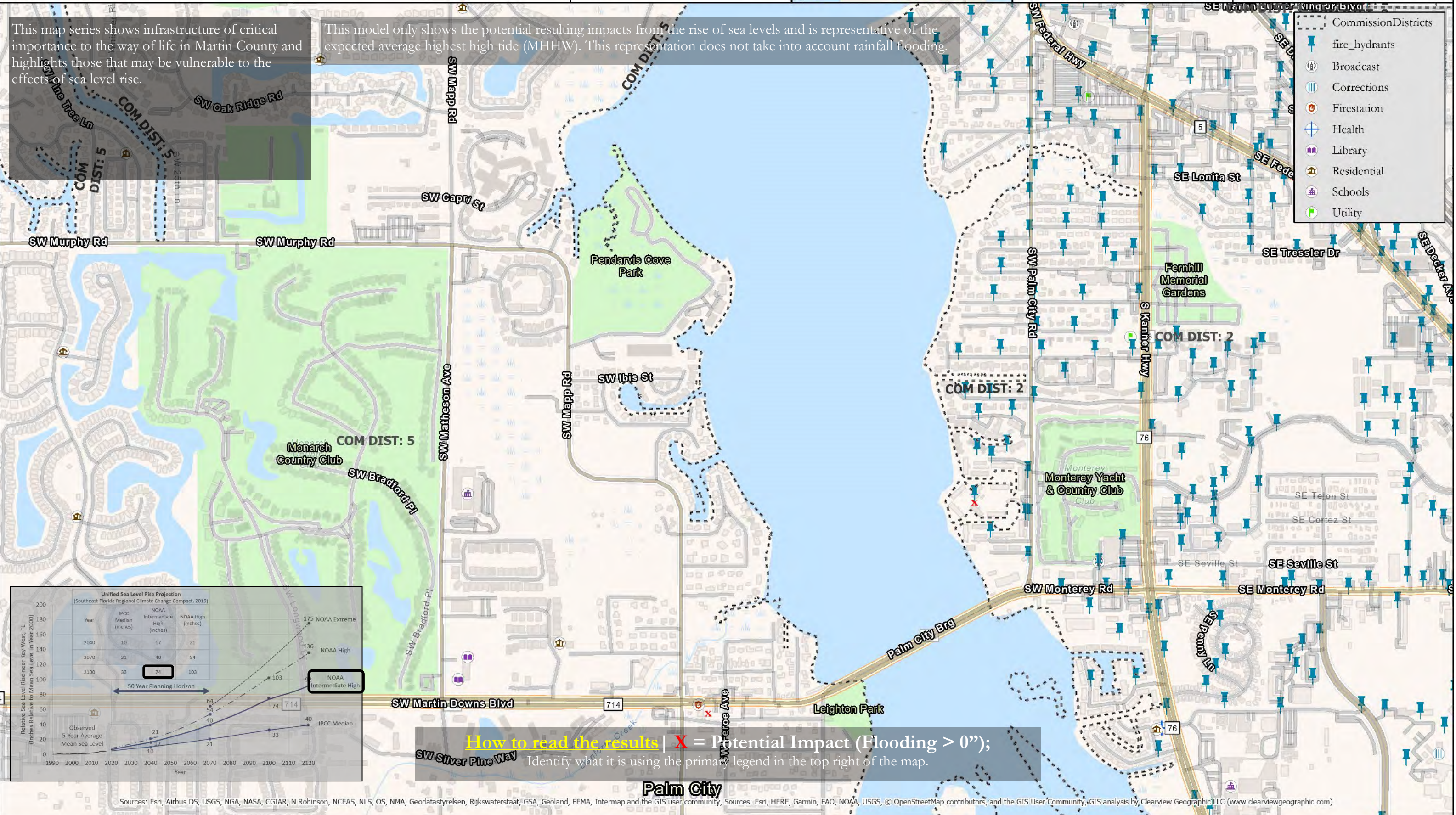
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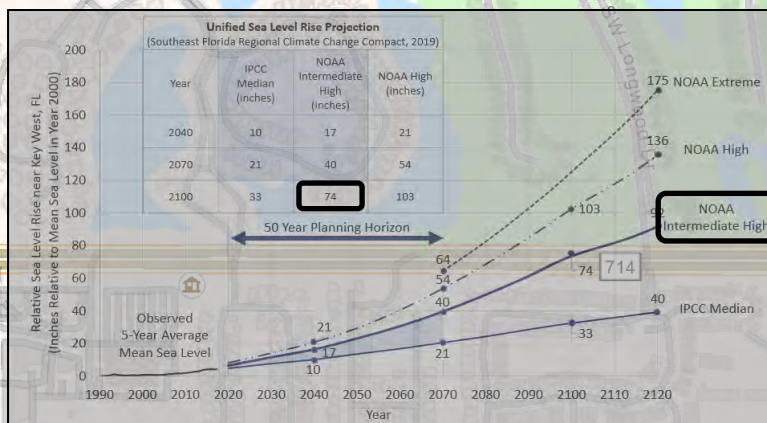
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- Commission Districts
- fire hydrants
- Broadcast
- Corrections
- Firestation
- Health
- Library
- Residential
- Schools
- Utility

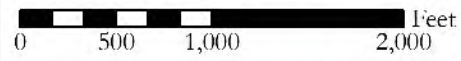


How to read the results | X = Potential Impact (Flooding > 0"); Identify what it is using the primary legend in the top right of the map.

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community; GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Critical Infrastructure Vulnerability

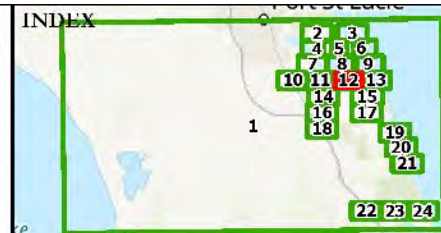
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Martin County, Florida



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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIH1W
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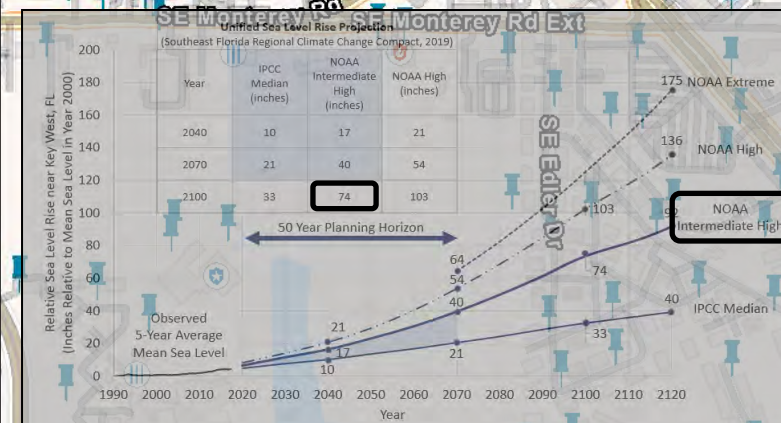
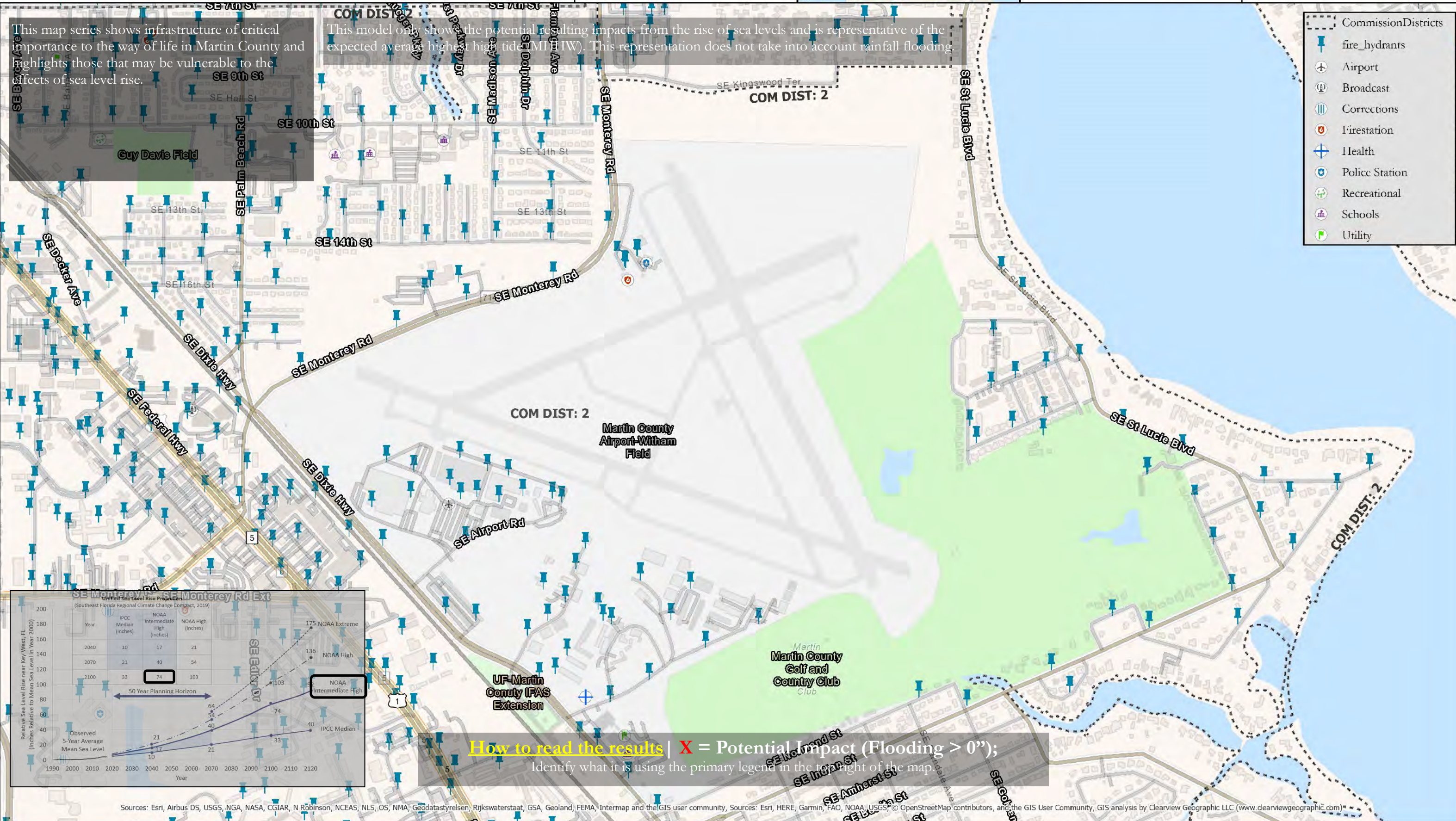
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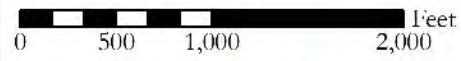


How to read the results | X = Potential Impact (Flooding > 0");
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Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Critical Infrastructure Vulnerability

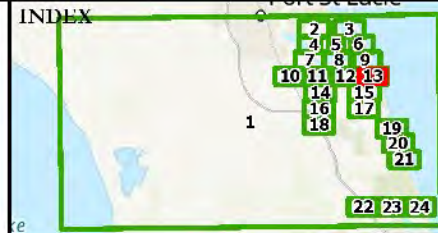
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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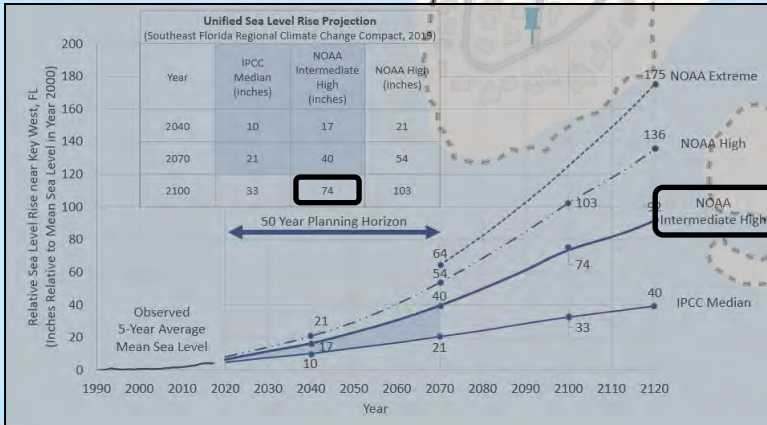
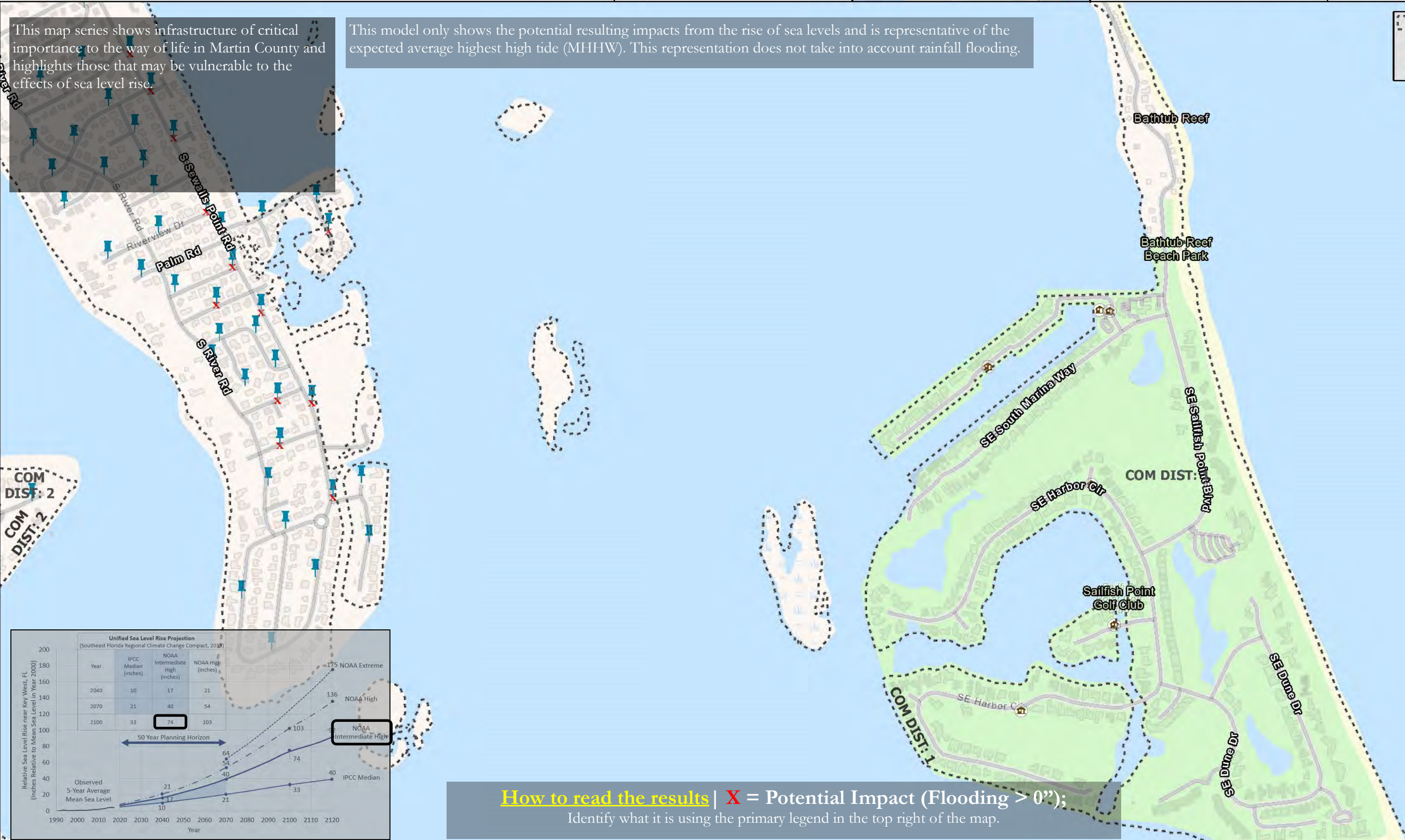


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- Commission Districts
- fire_hydrants
- Residential

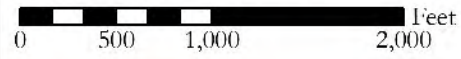


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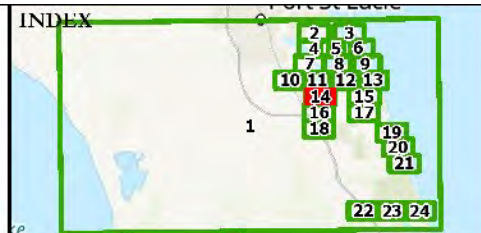
Critical Infrastructure Vulnerability

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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIH
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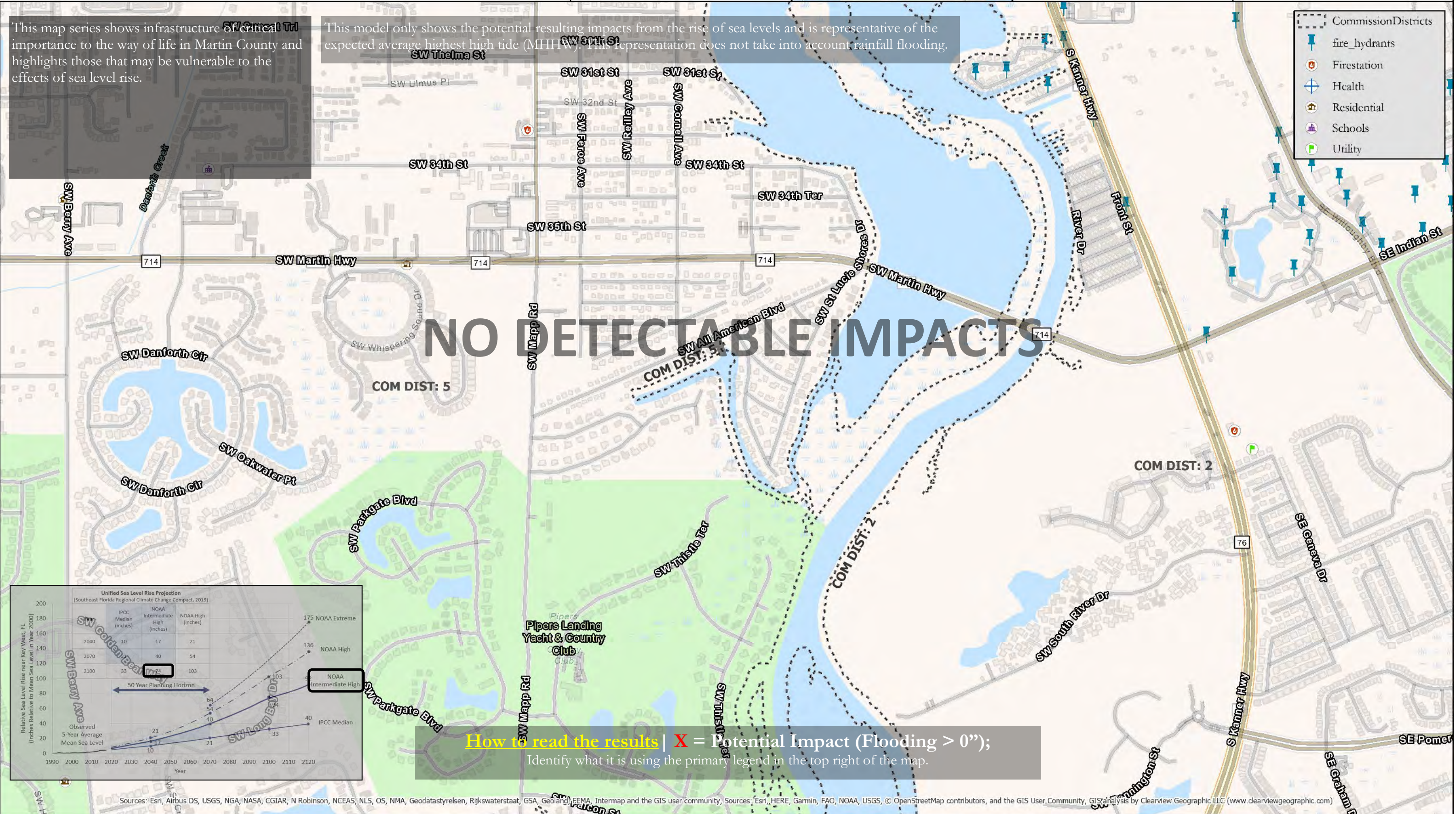
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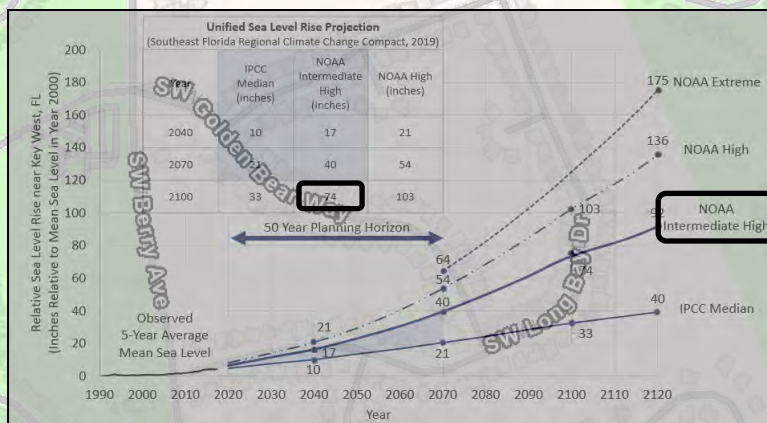
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- Commission Districts
- fire_hydrants
- Firestation
- Health
- Residential
- Schools
- Utility

NO DETECTABLE IMPACTS

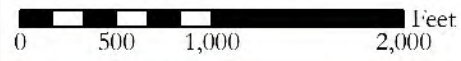


How to read the results | X = Potential Impact (Flooding > 0");
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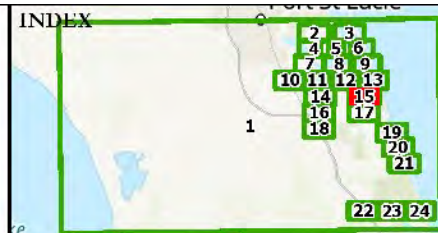
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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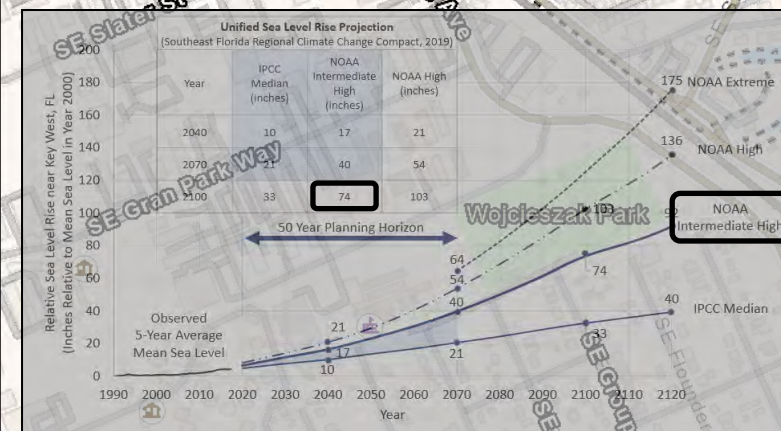
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- Commission Districts
- fire_hydrants
- Firestation
- Residential
- Schools

NO DETECTABLE IMPACTS

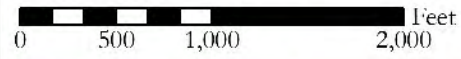


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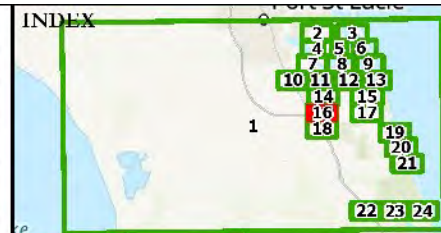
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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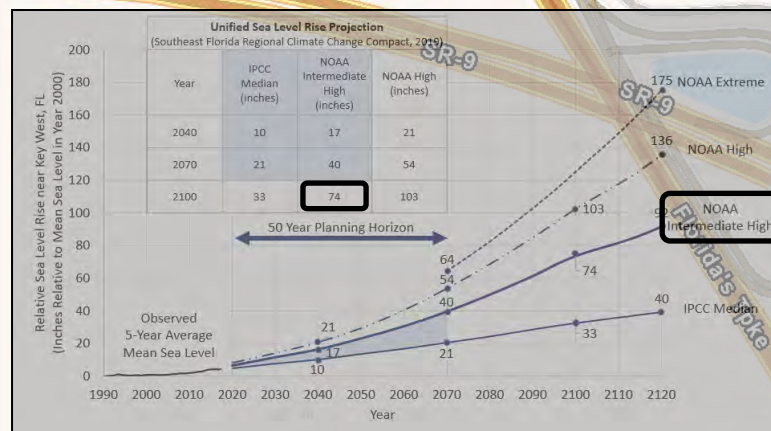
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- Commission Districts
- Schools

NO DETECTABLE IMPACTS

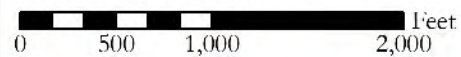


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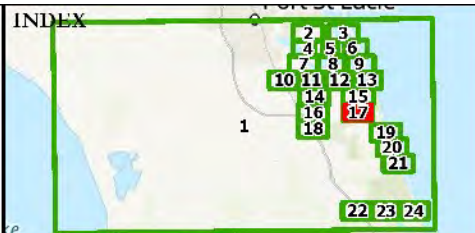
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
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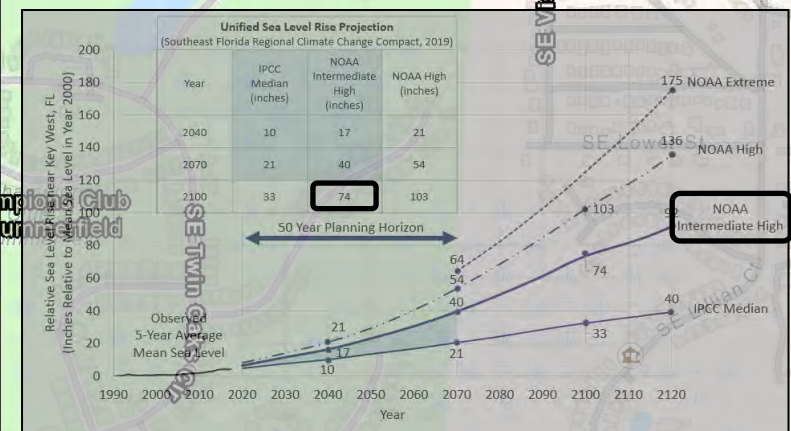
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- Commission Districts
- Residential
- Schools
- Utility



NO DETECTABLE IMPACTS

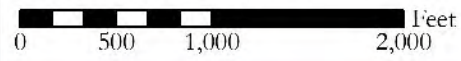


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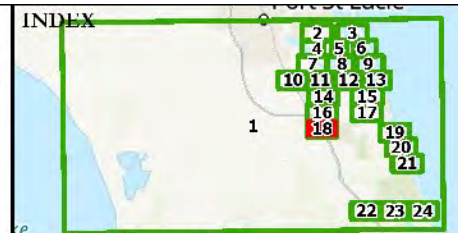
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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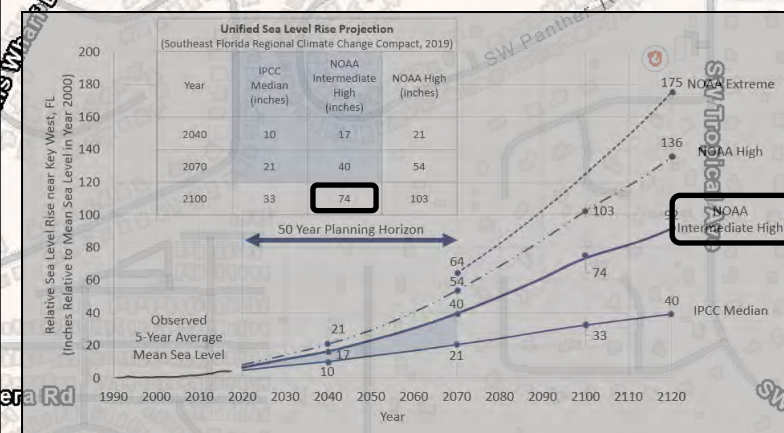
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- Commission Districts
- Firestation
- Residential
- Schools
- Utility

NO DETECTABLE IMPACTS

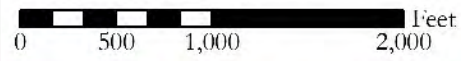


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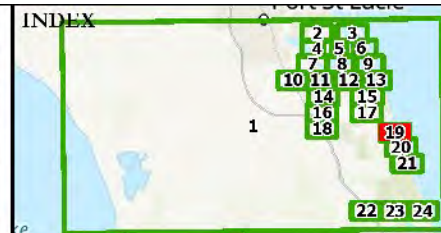
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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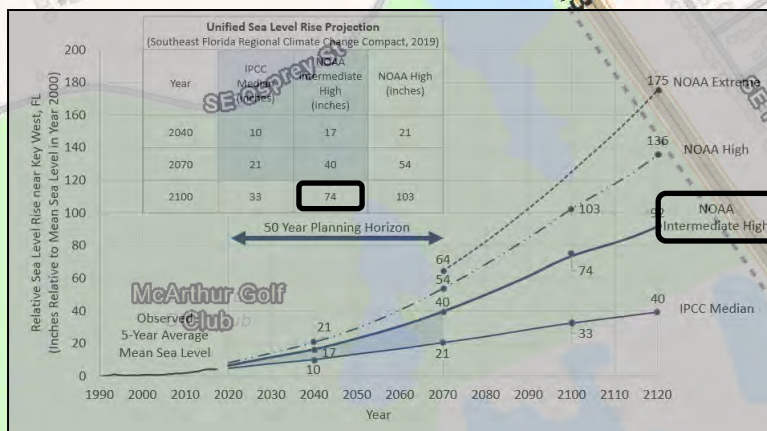
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- Commission Districts
- Firestation
- Utility

NO DETECTABLE IMPACTS

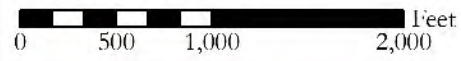


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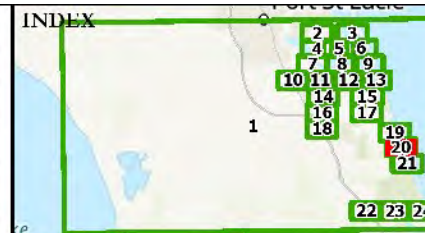
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Projection: NOAA Intermediate High
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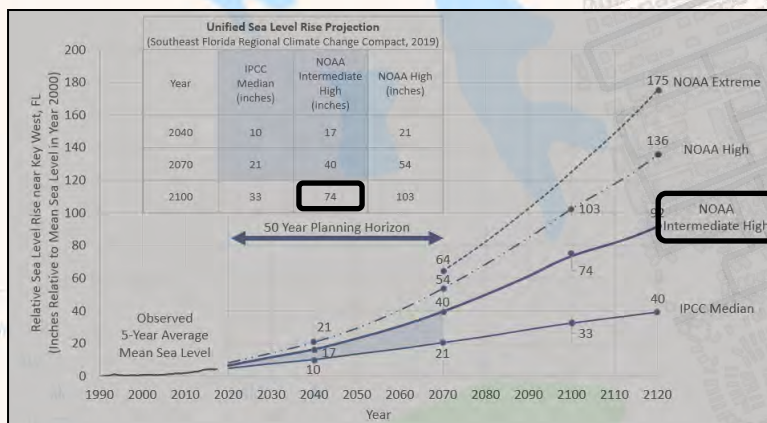
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Commission Districts



NO DATA TO DISPLAY

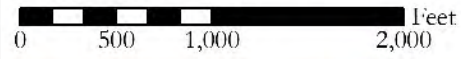


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Critical Infrastructure Vulnerability

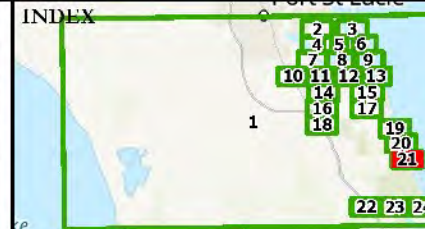
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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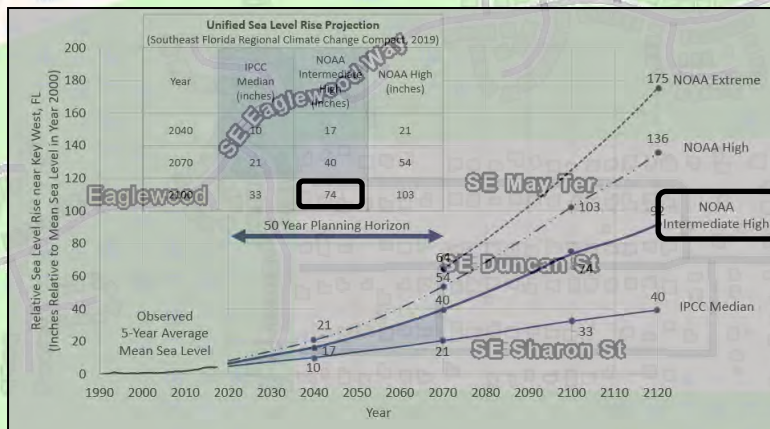
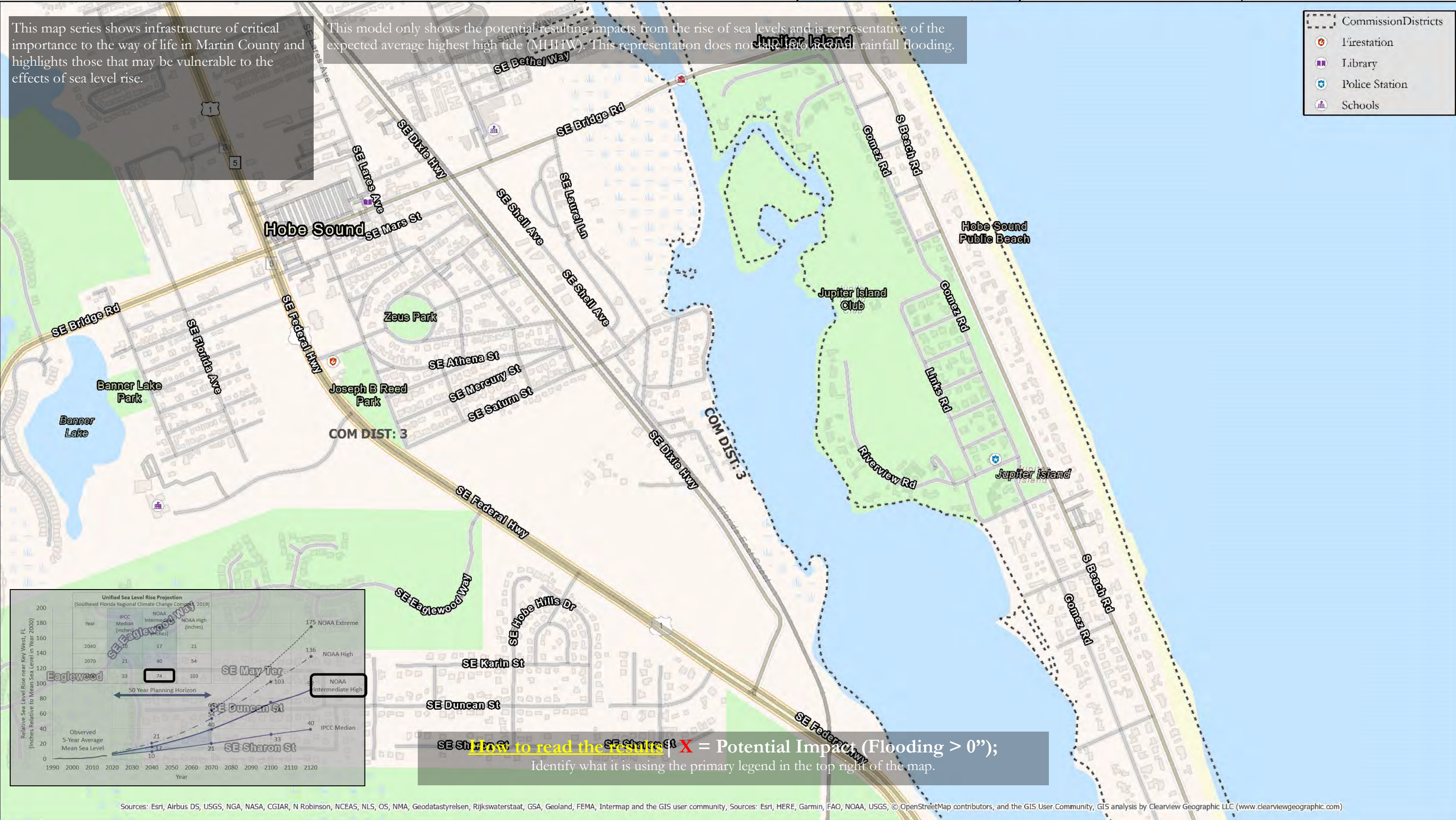


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- Commission Districts
- Firestation
- Library
- Police Station
- Schools

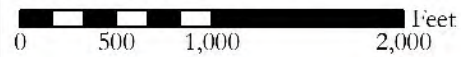


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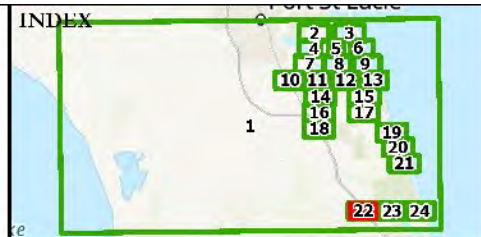
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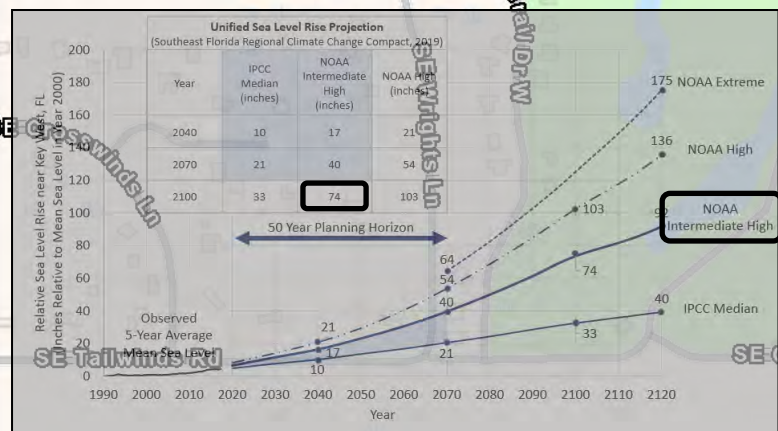
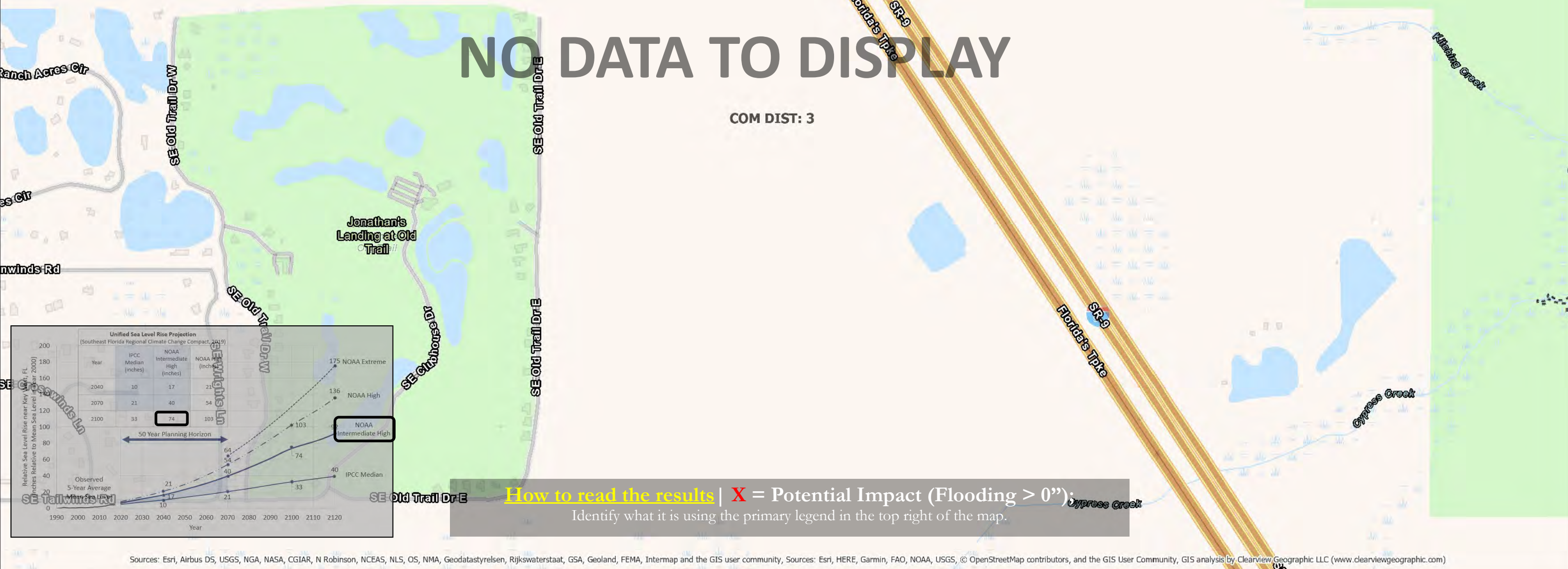
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Commission Districts

NO DATA TO DISPLAY

COM DIST: 3

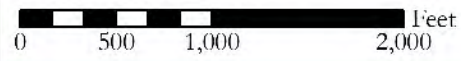


How to read the results | X = Potential Impact (Flooding > 0");
Identify what it is using the primary legend in the top right of the map.

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Critical Infrastructure Vulnerability

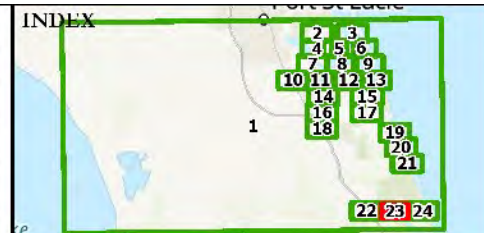
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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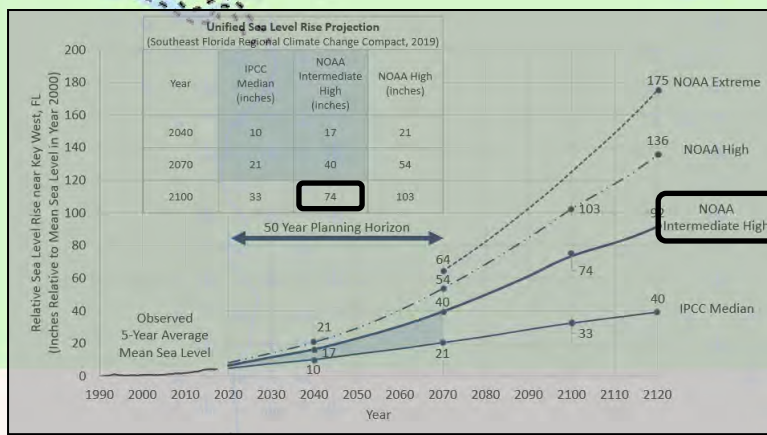
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■ Beyond Study Area
- - - Commission Districts

NO DATA TO DISPLAY

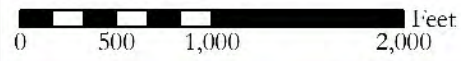


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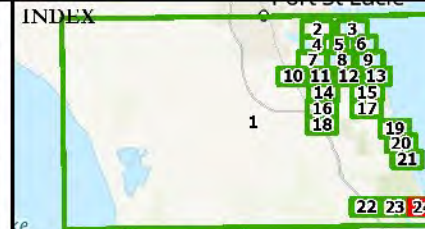
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MIIHW
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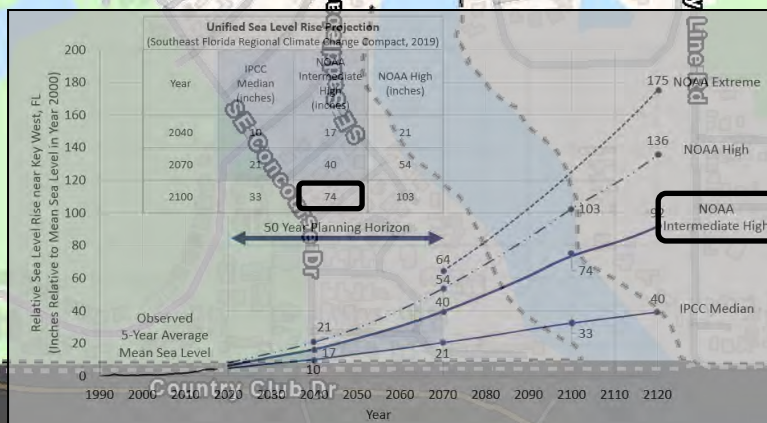
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- Beyond Study Area
- Commission Districts
- Firestation
- Health
- Trainstation

NO DETECTABLE IMPACTS

COM DIST: 3

Jupiter Hills Club



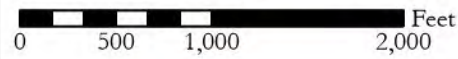
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Transportation Vulnerability

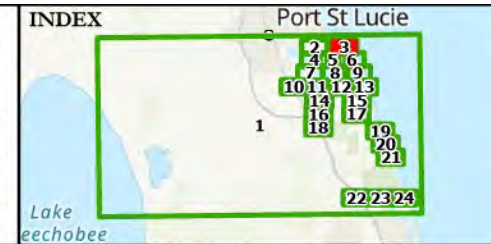
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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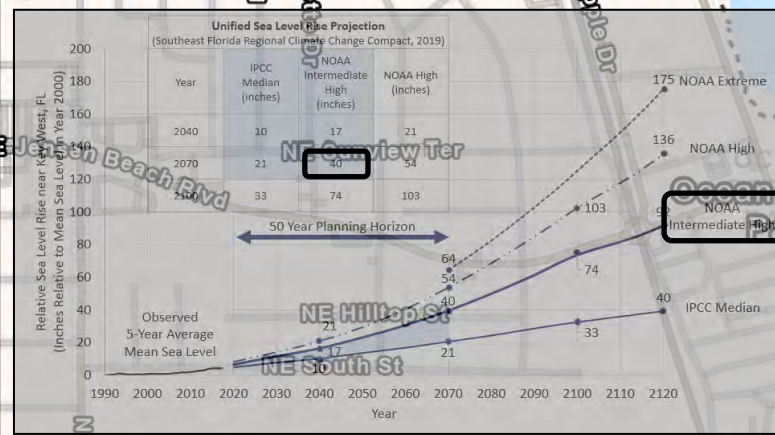
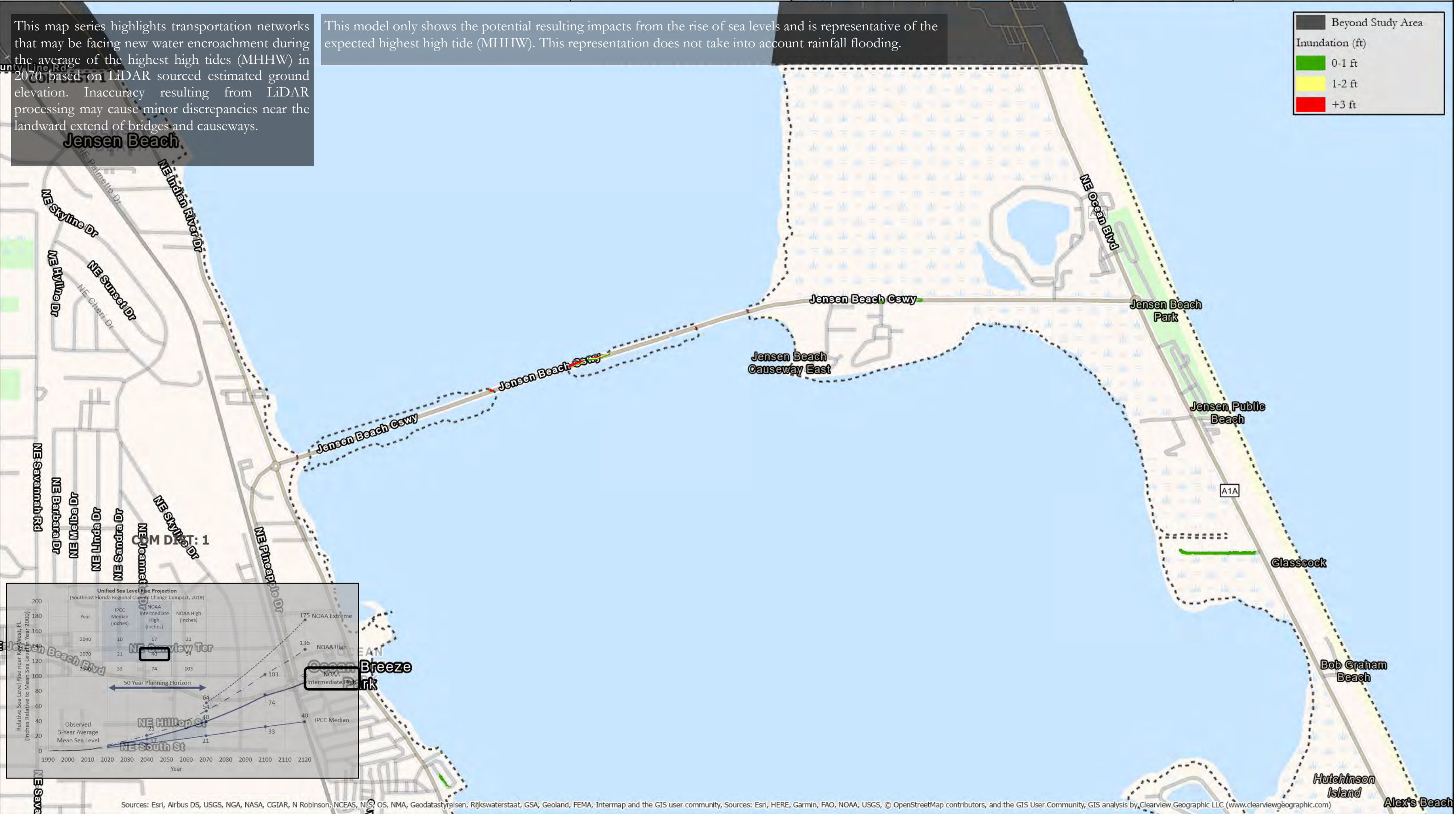
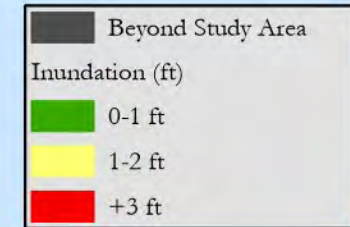
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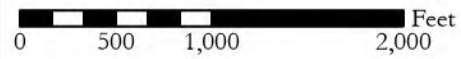
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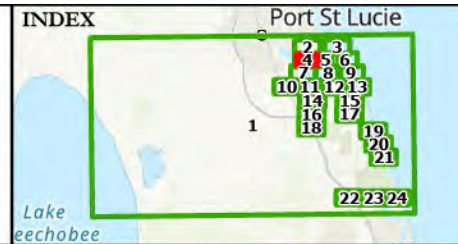
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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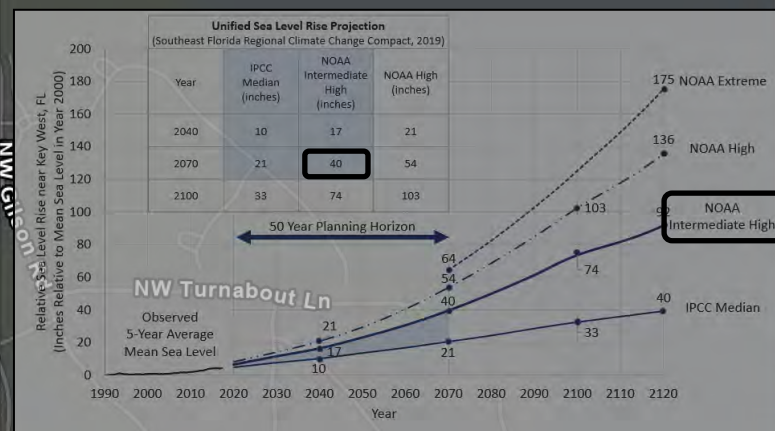
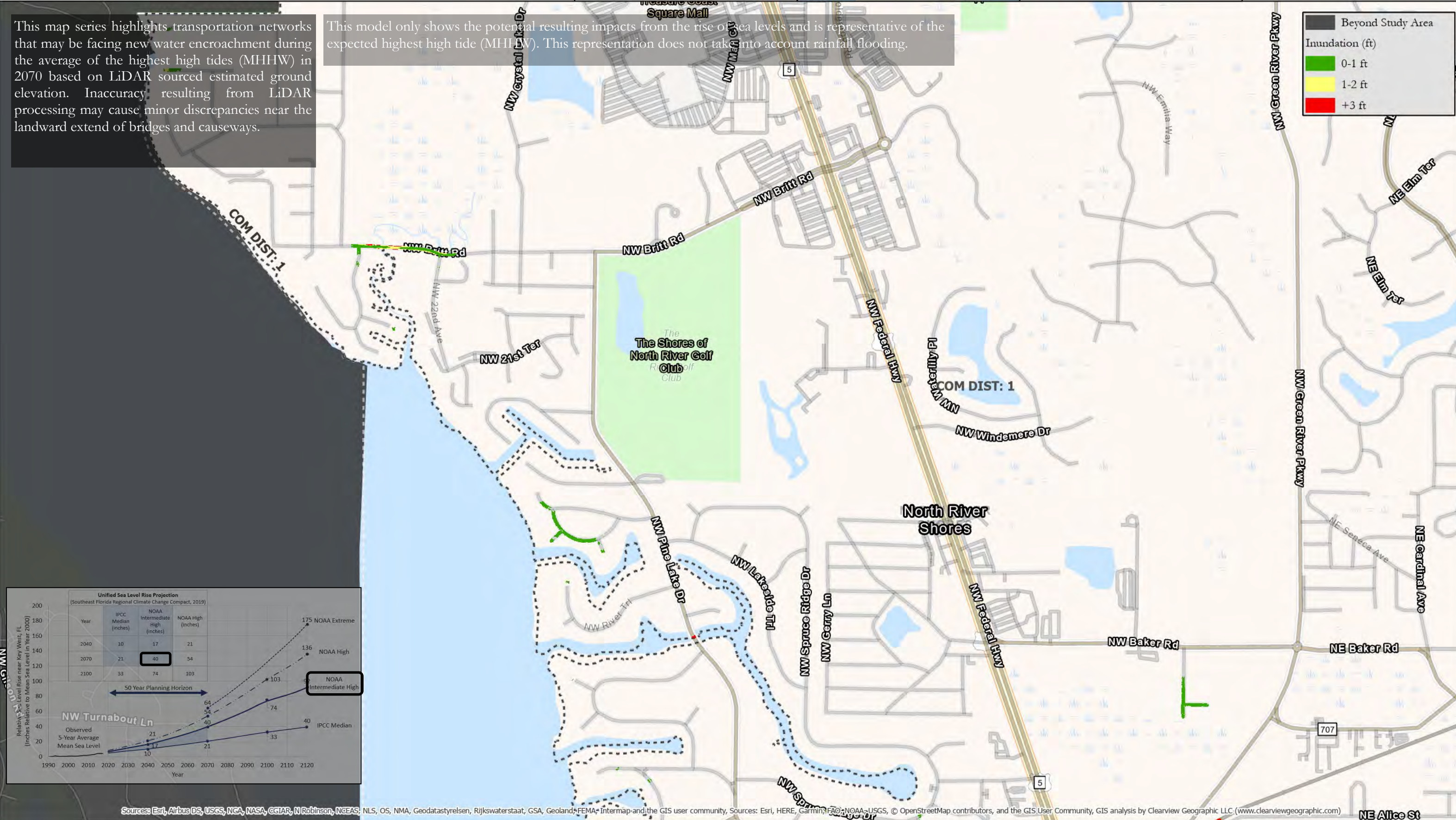
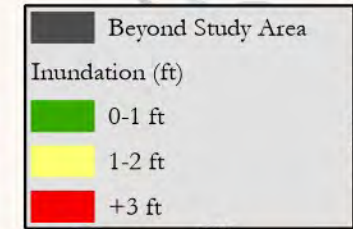
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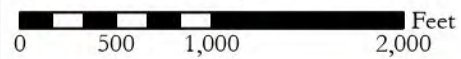
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Transportation Vulnerability

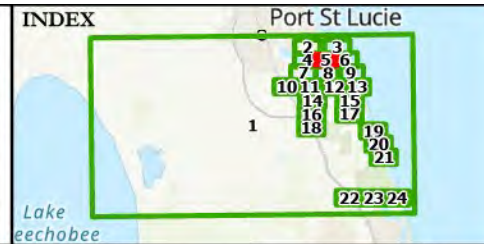
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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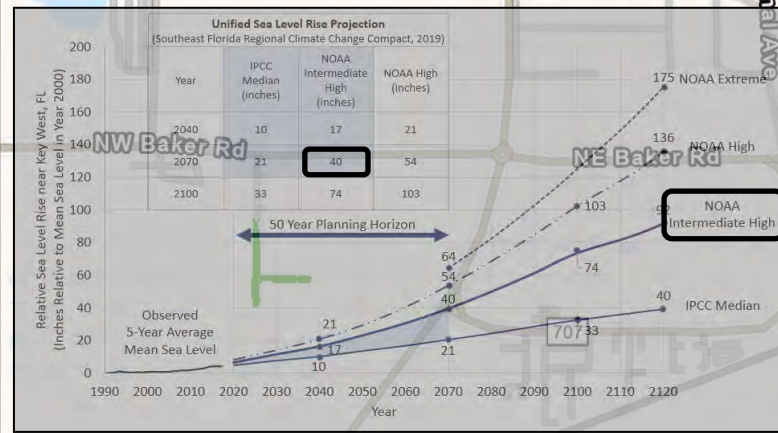
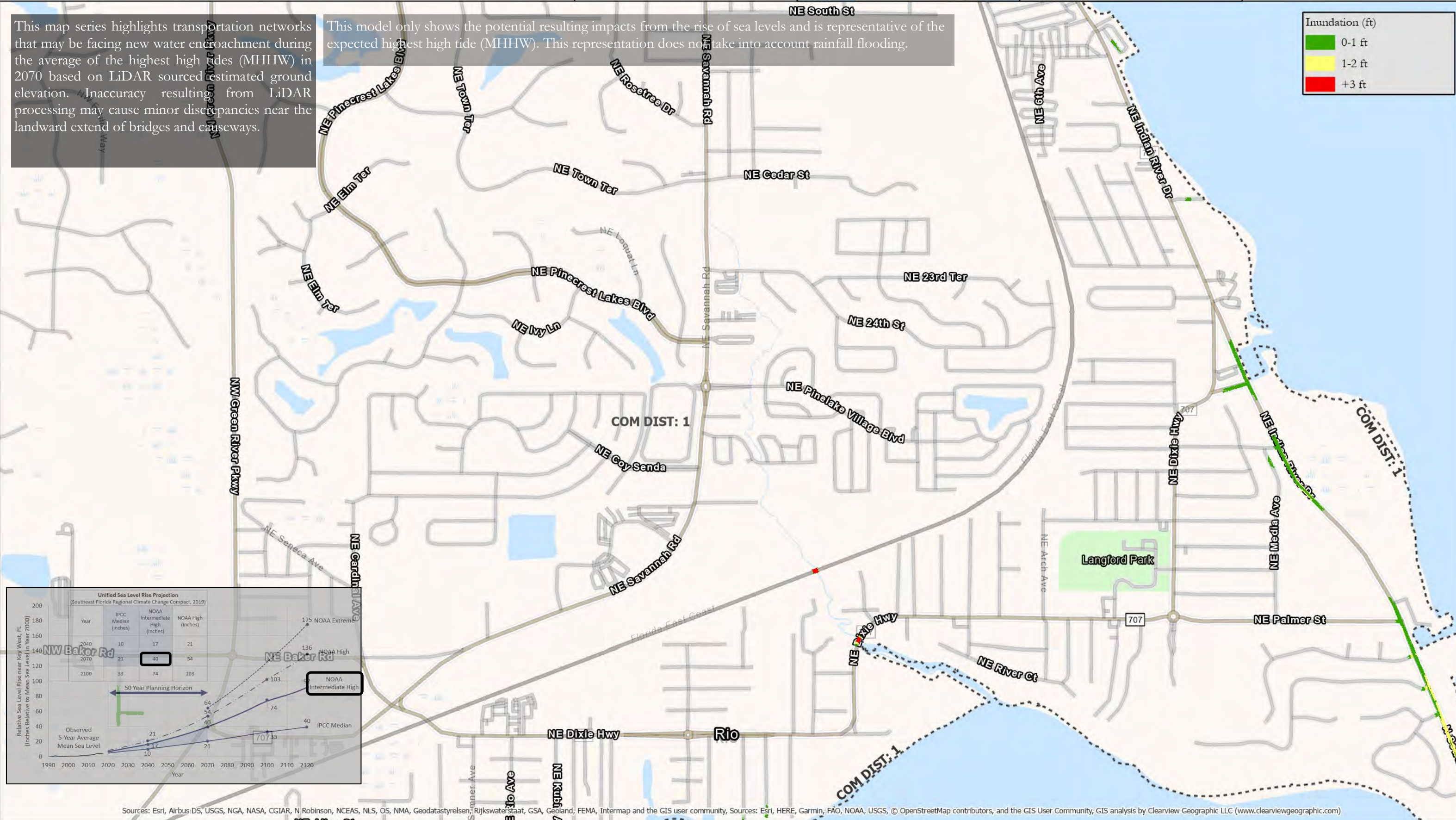
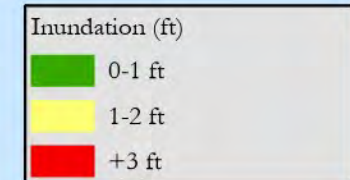
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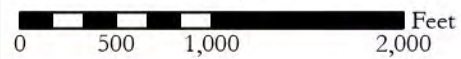
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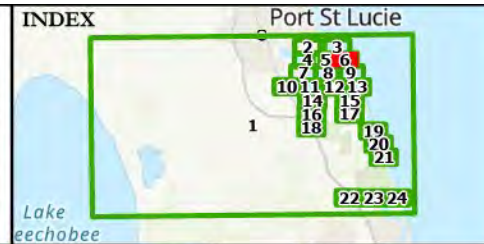
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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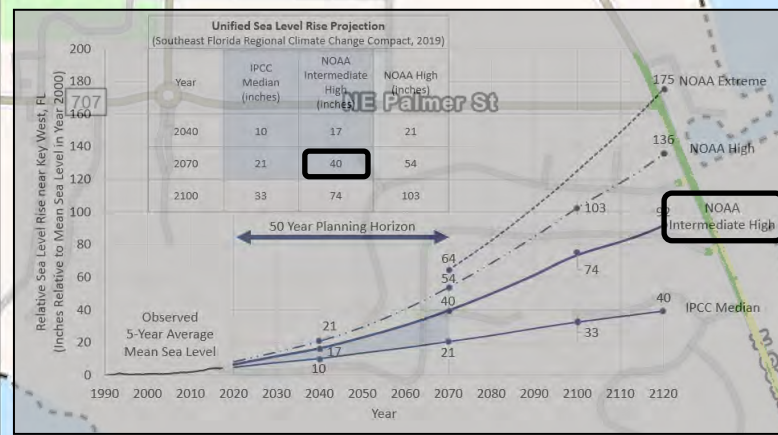
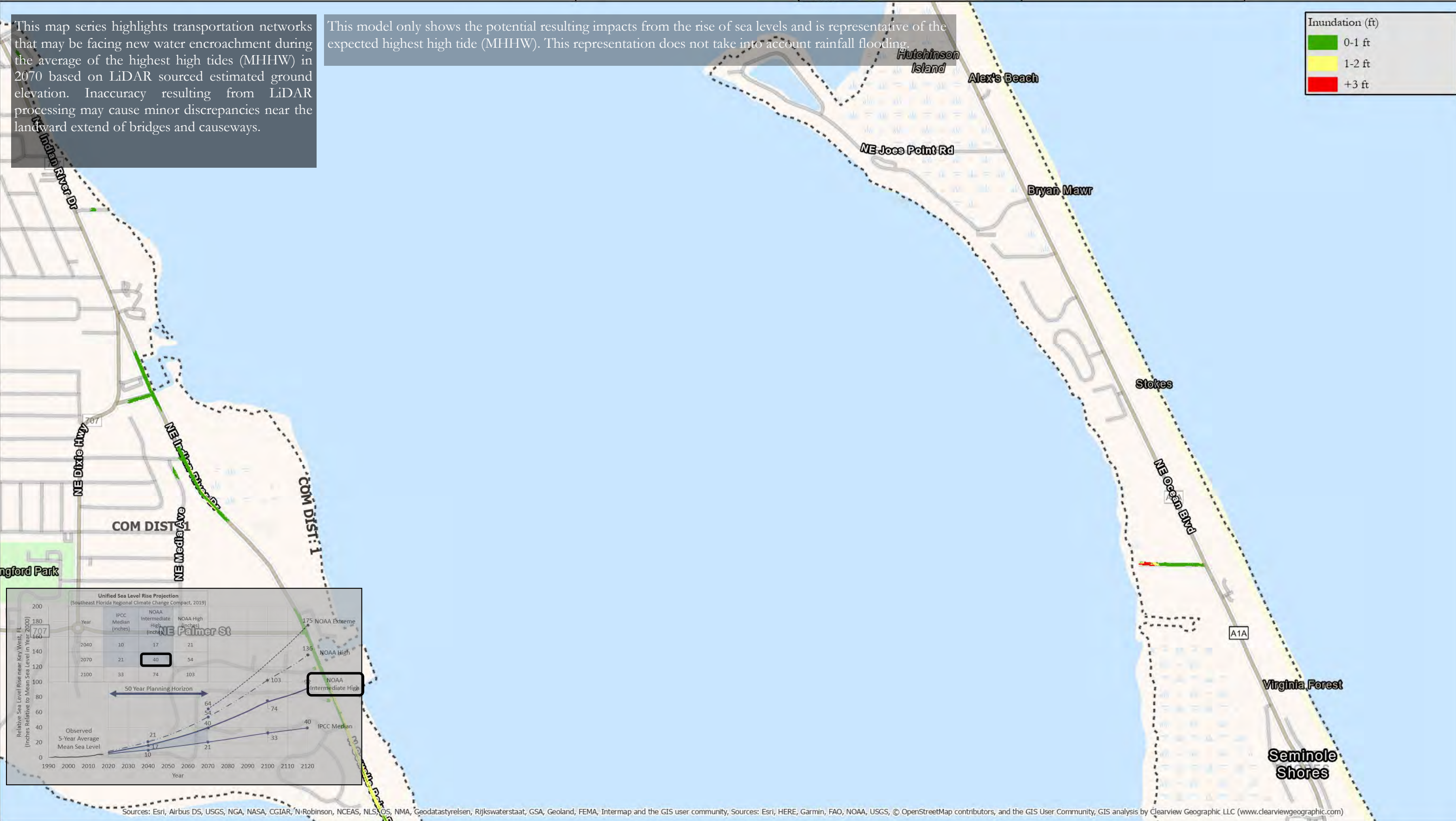
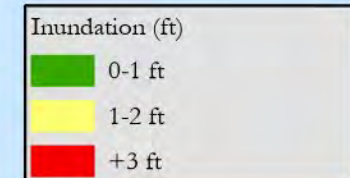
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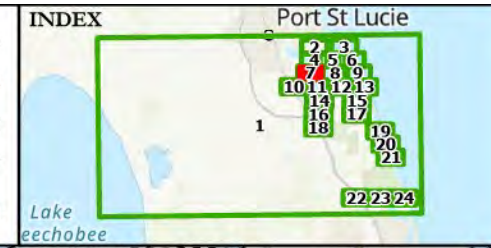
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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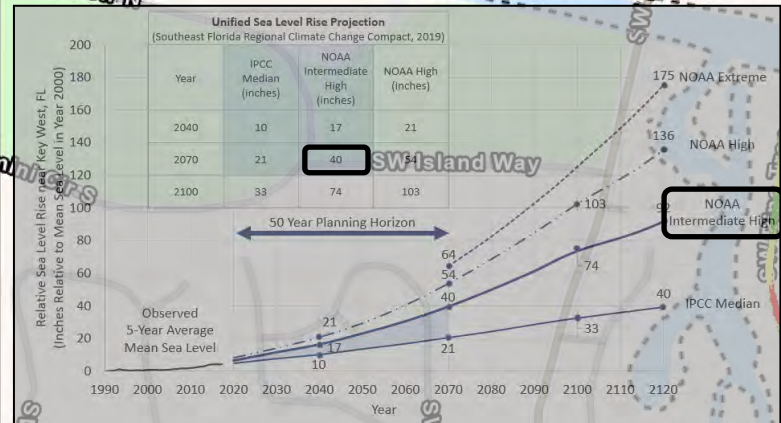
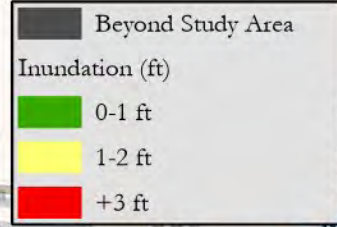
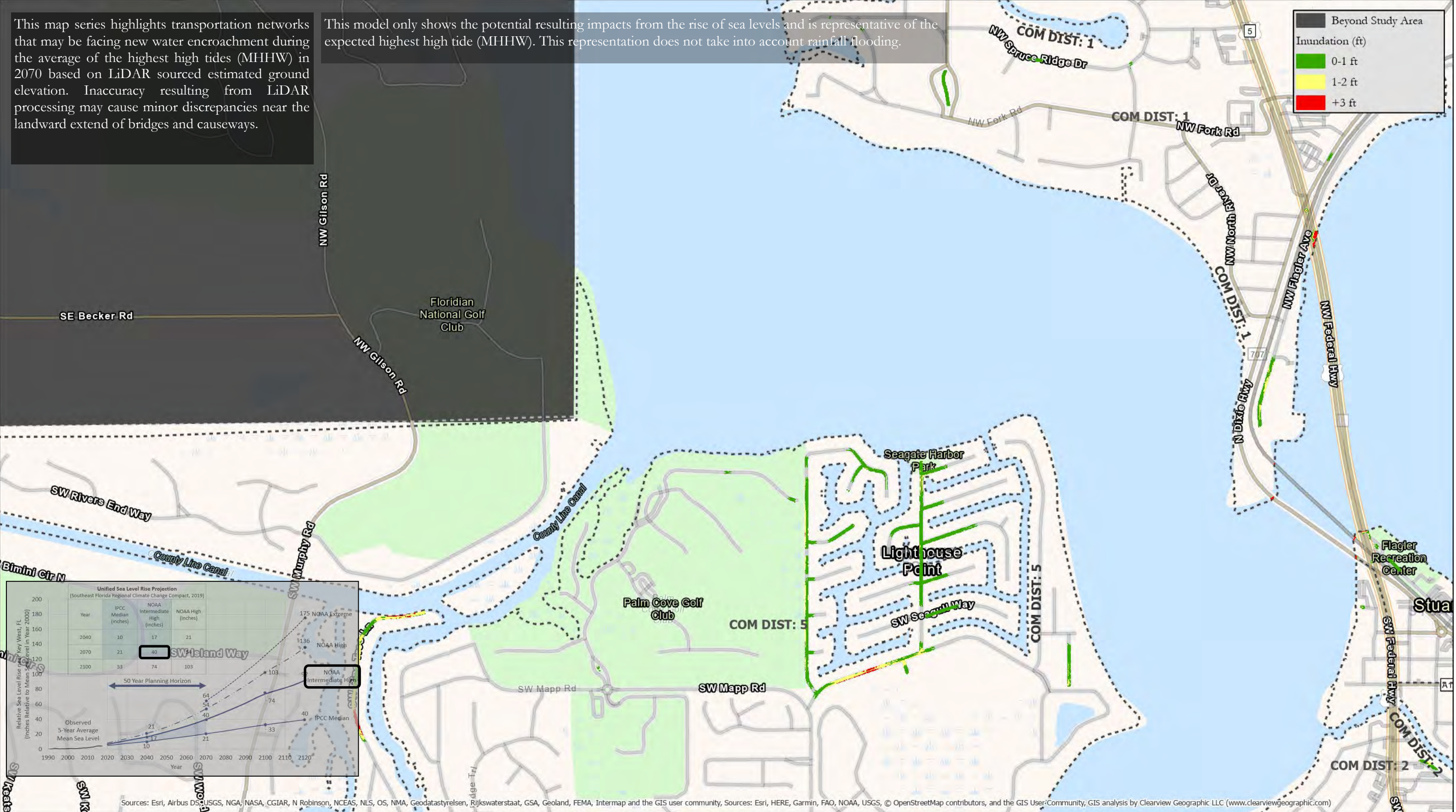
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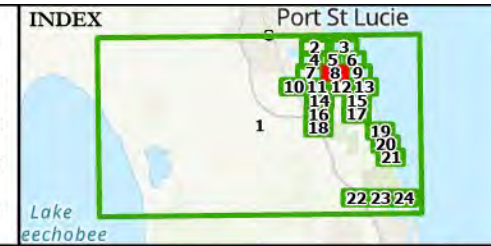
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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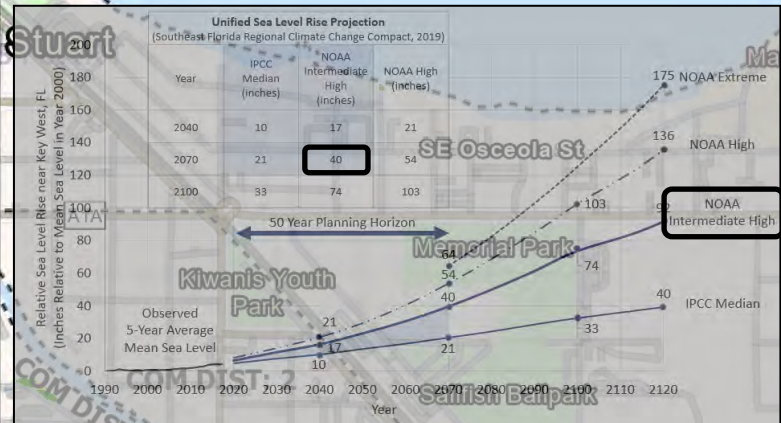
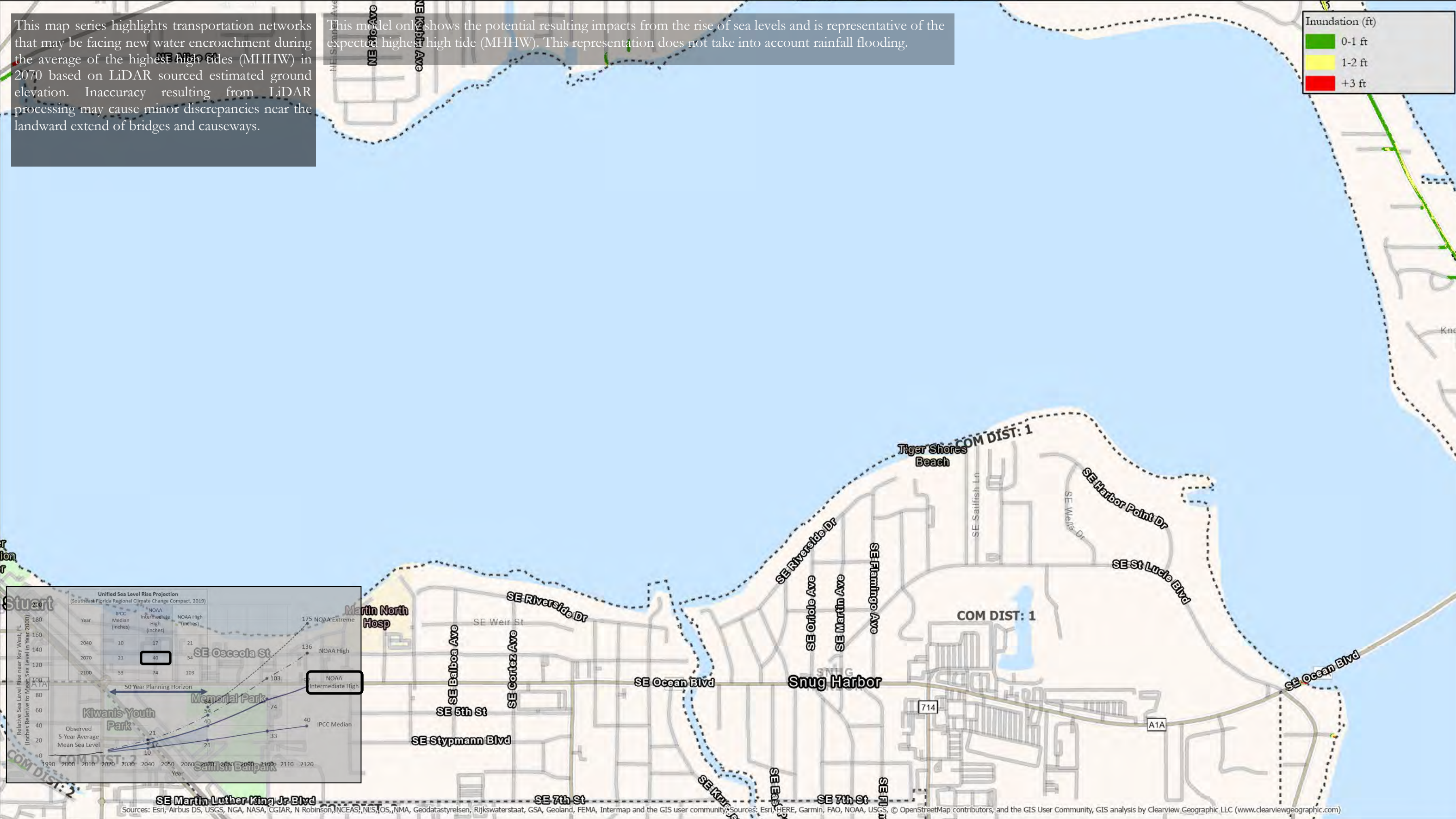
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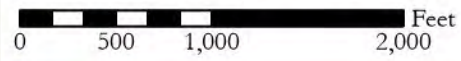
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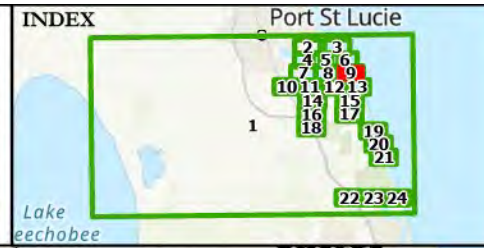
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Projection: NOAA Intermediate High
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Water Rise (Inches): Approx. 40
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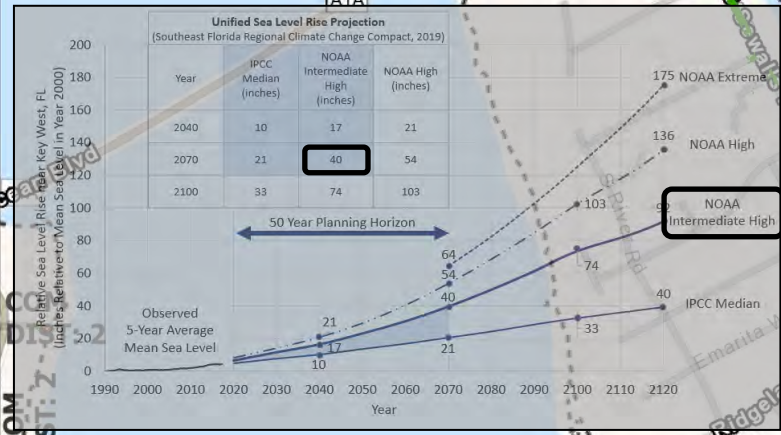
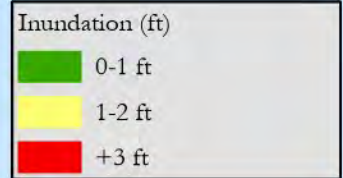
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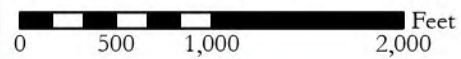
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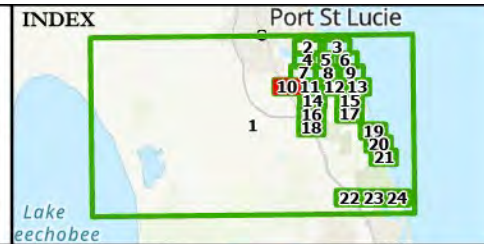
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Projection: NOAA Intermediate High
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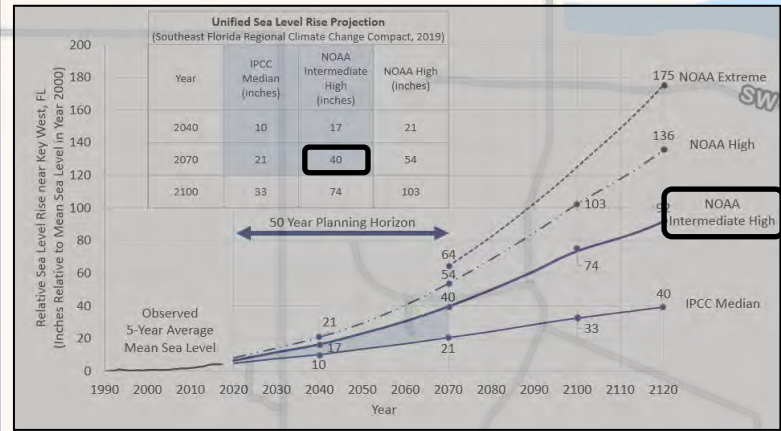
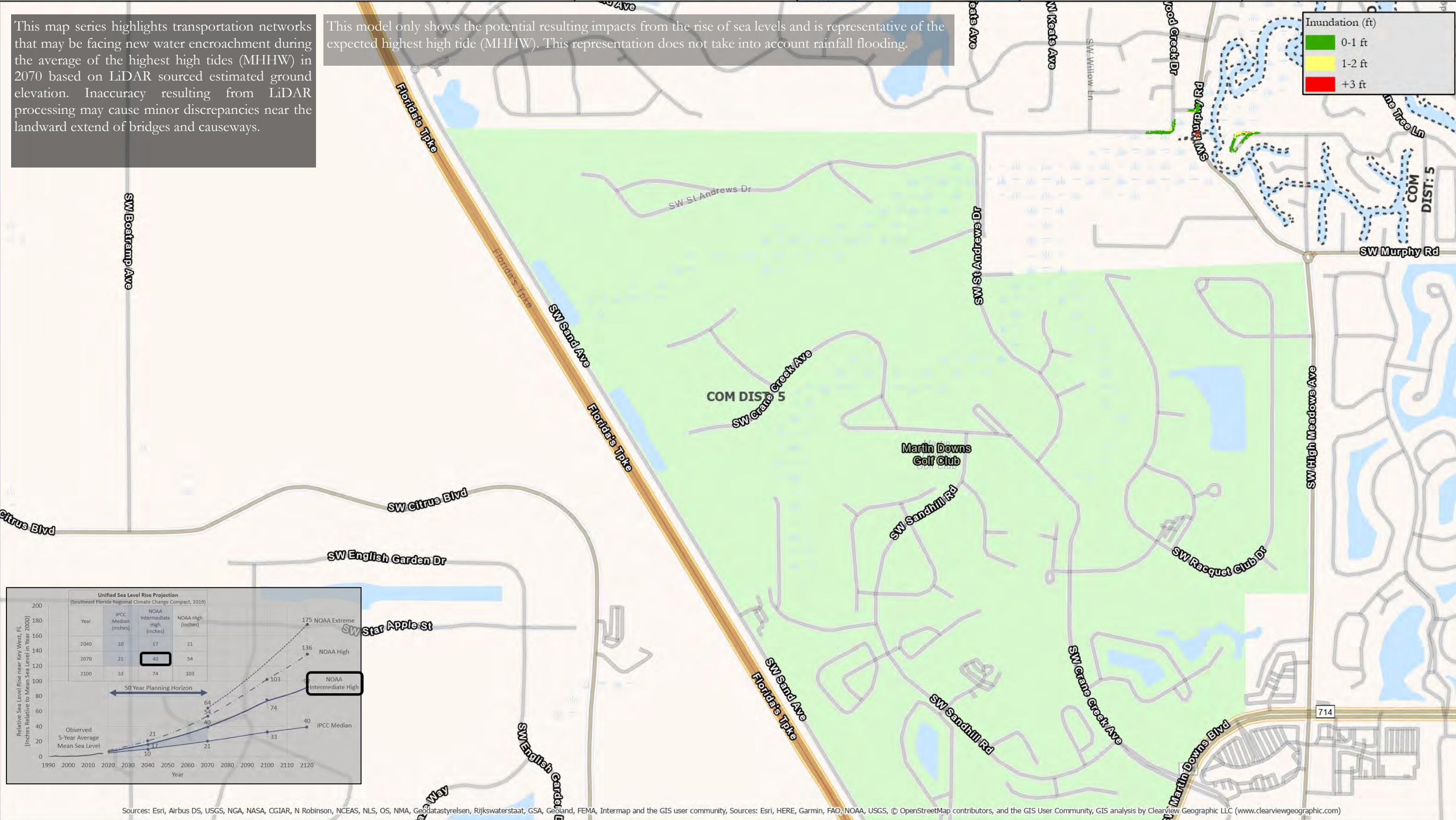
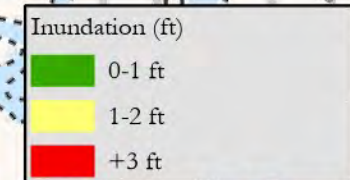
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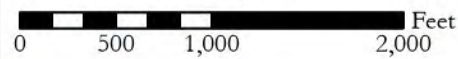
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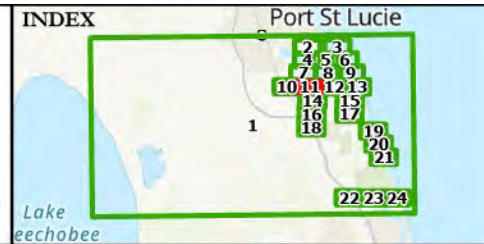
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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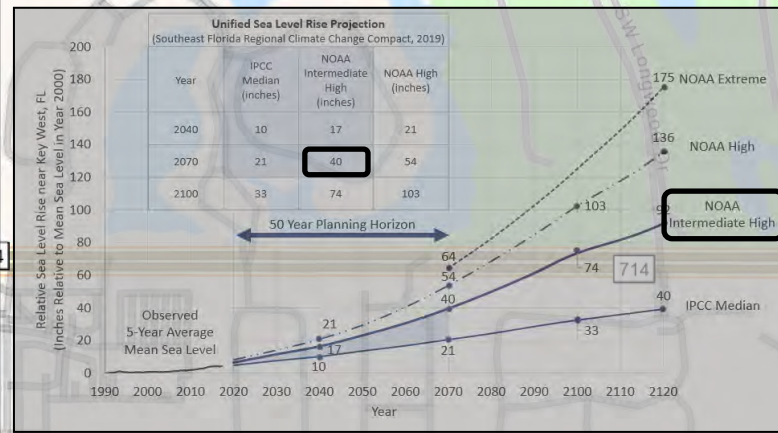
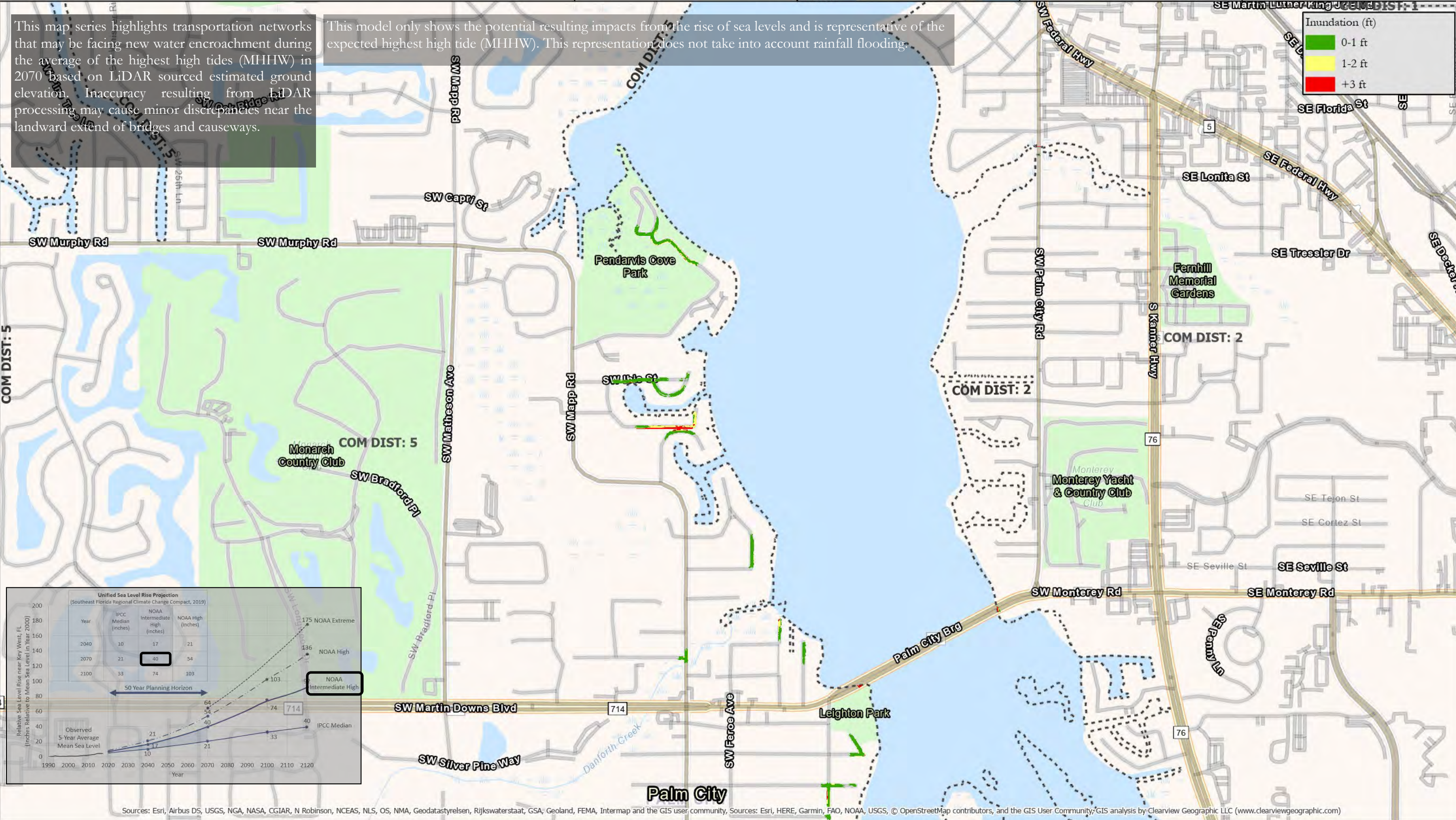
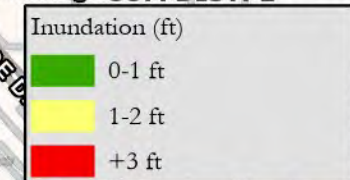
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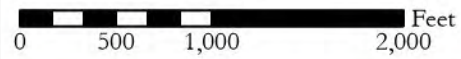
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Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community; GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

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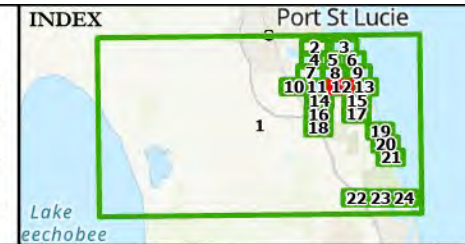
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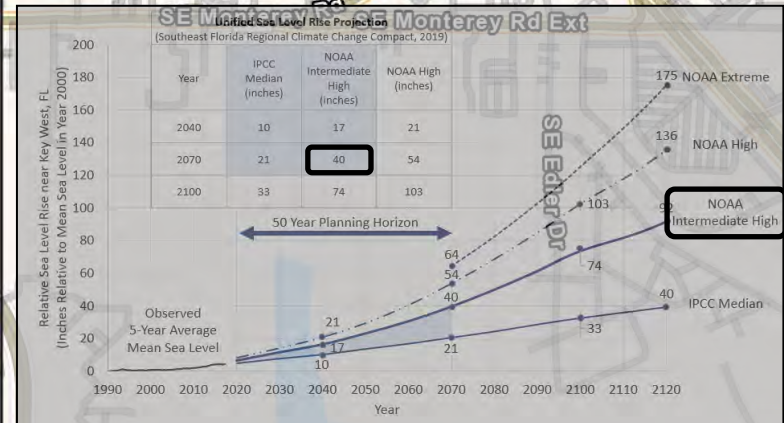
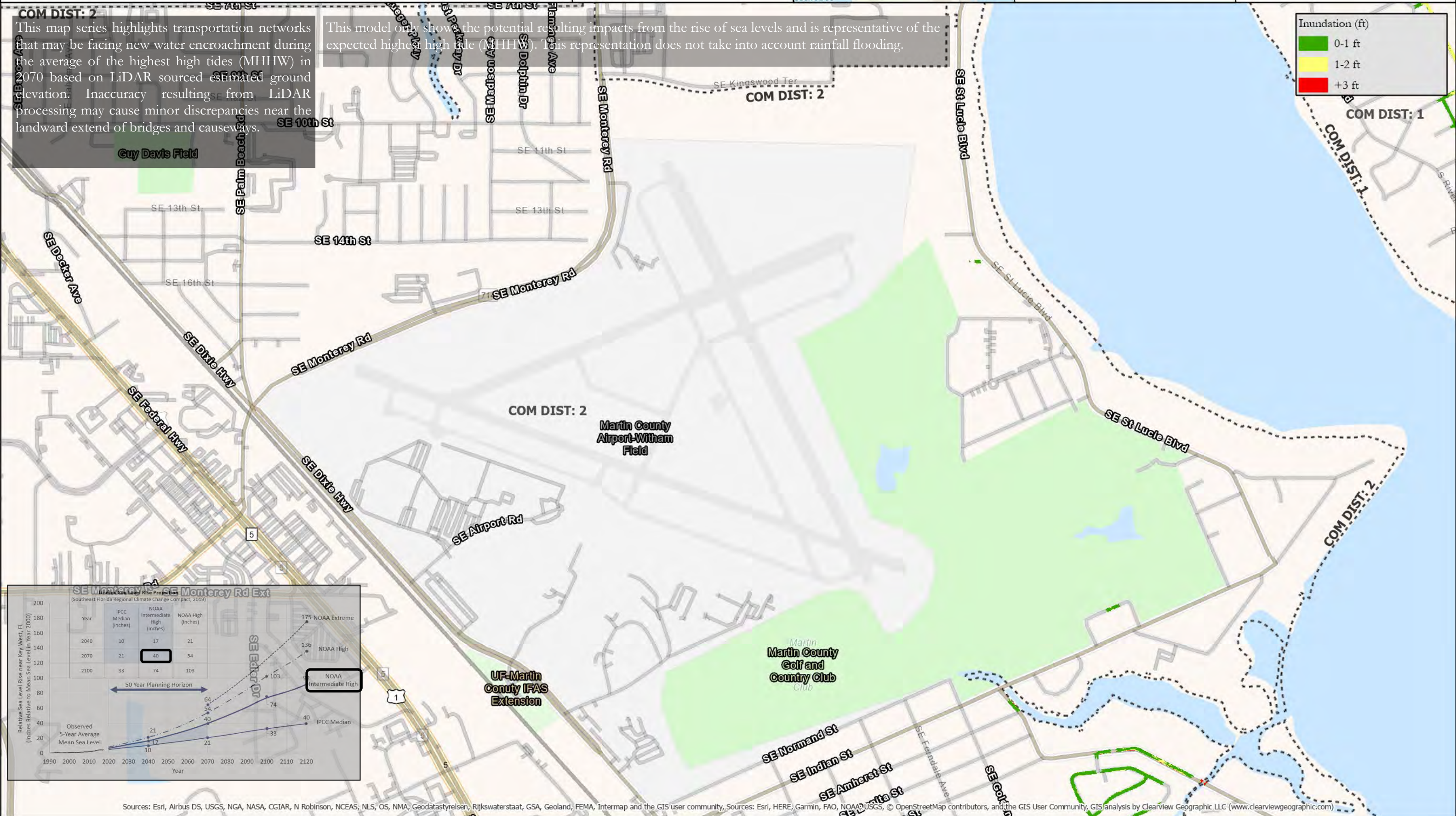
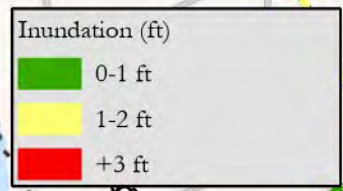
Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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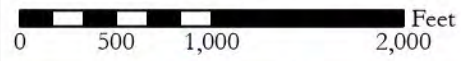
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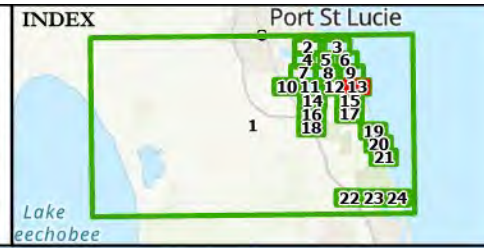
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Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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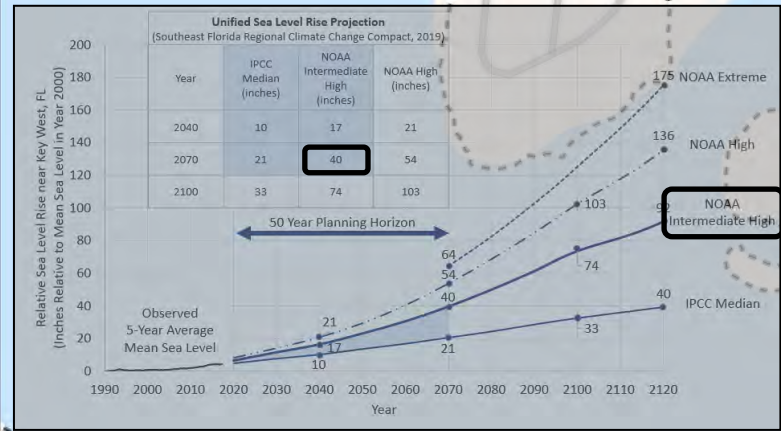
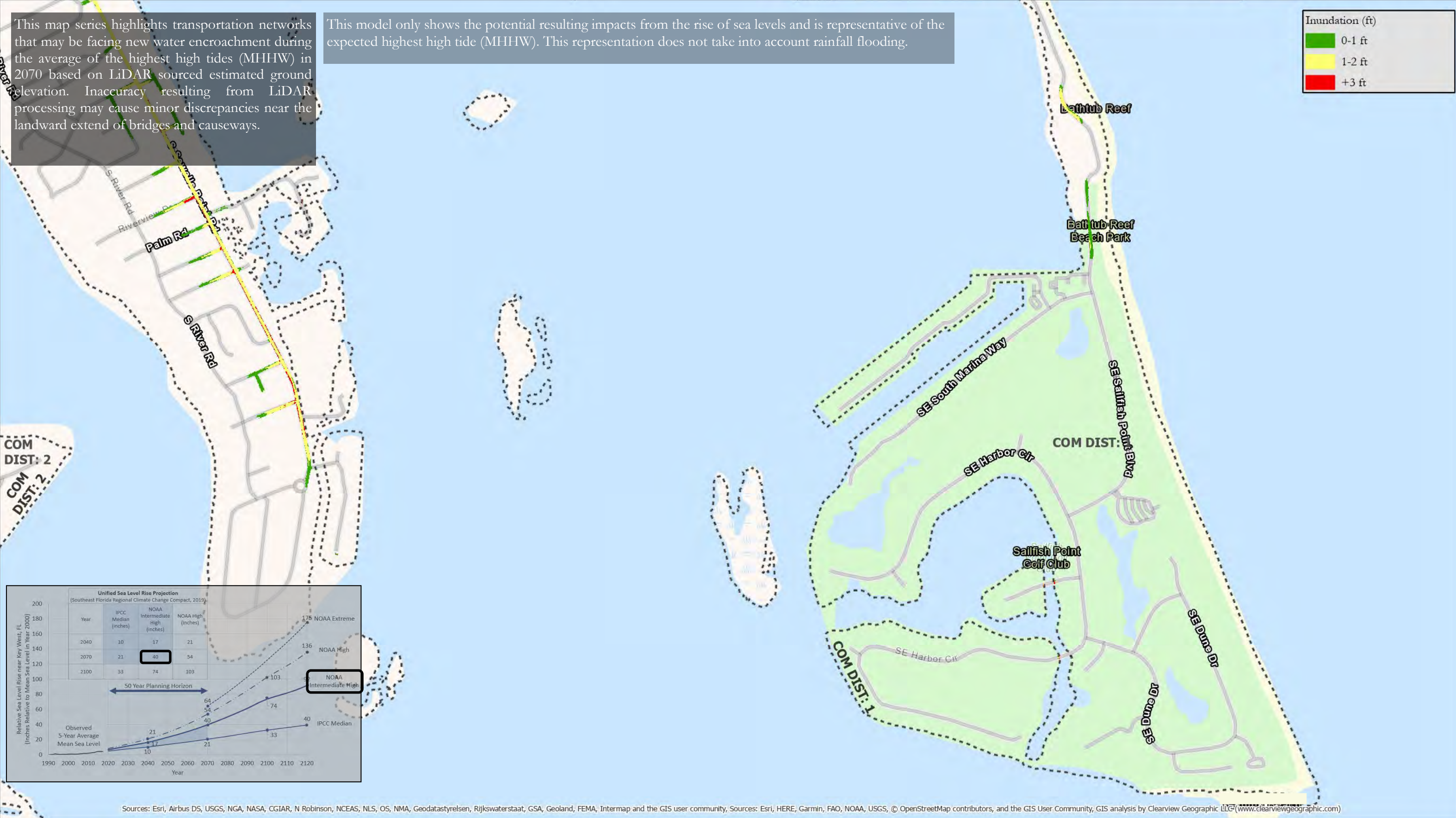
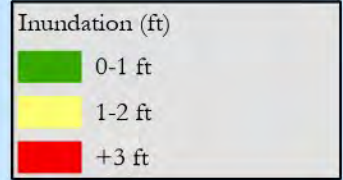
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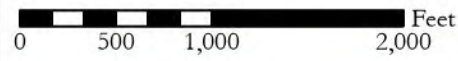
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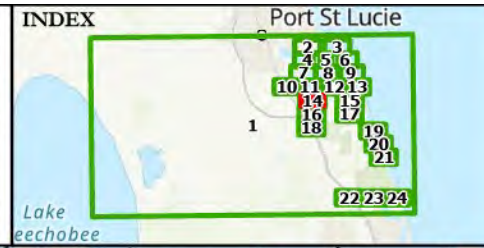
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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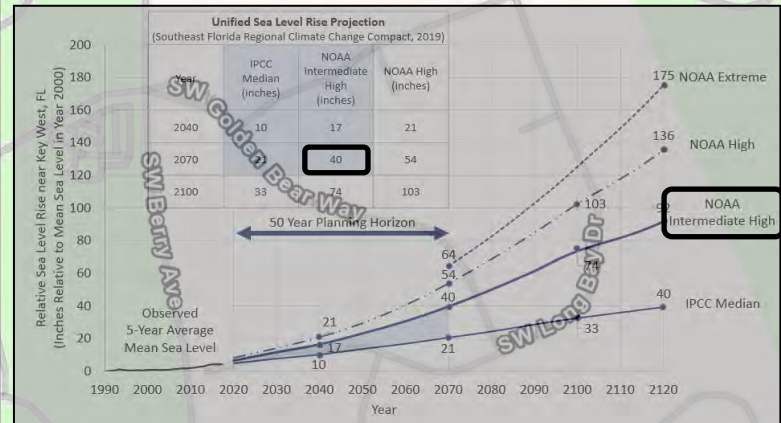
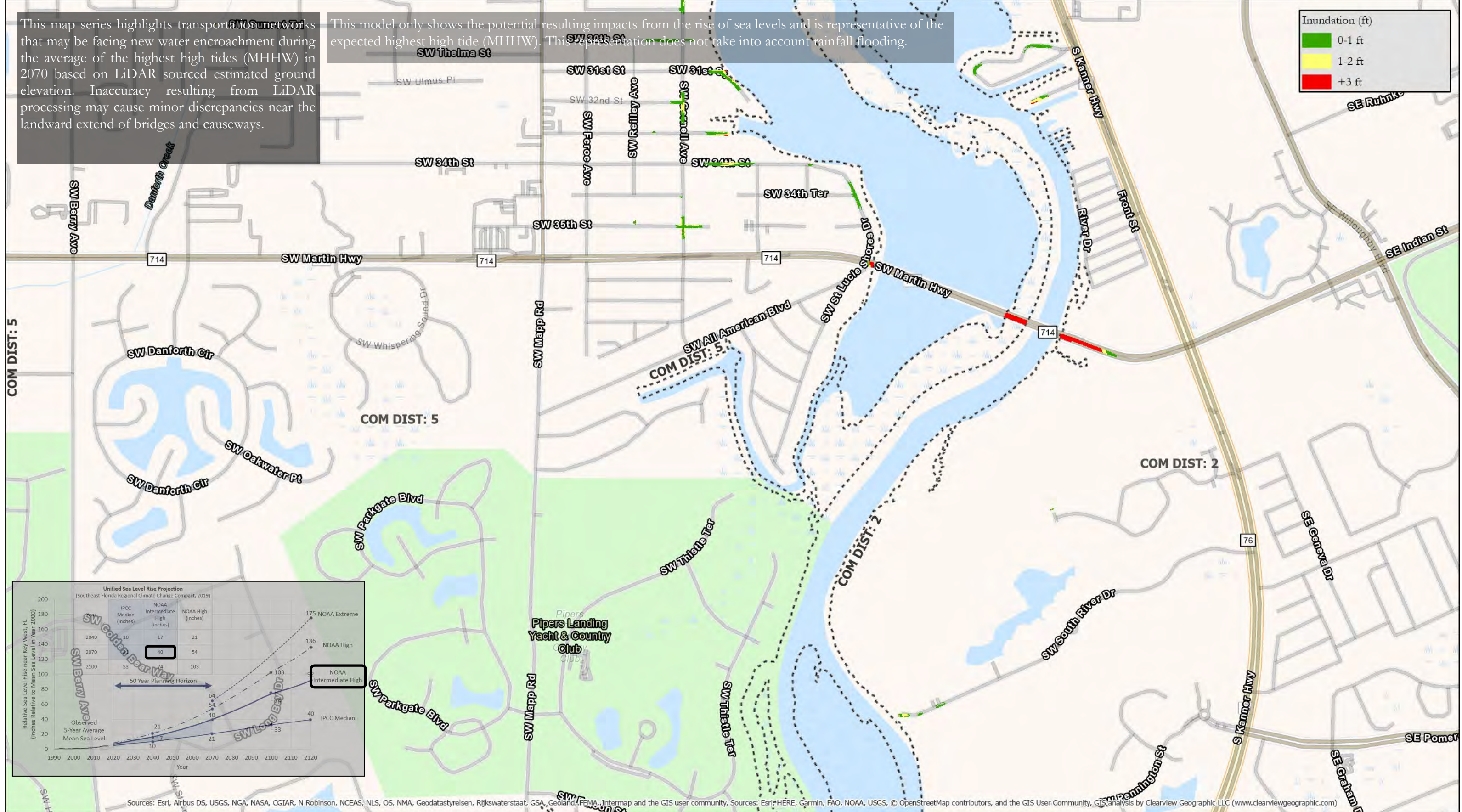
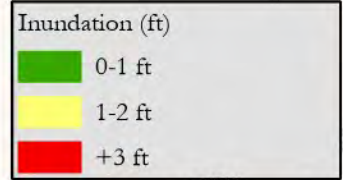
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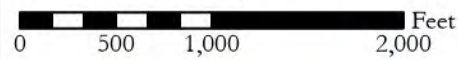
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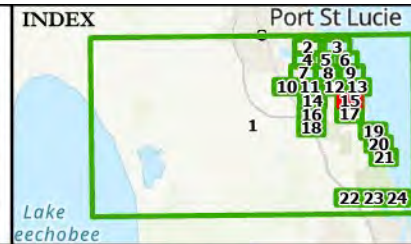
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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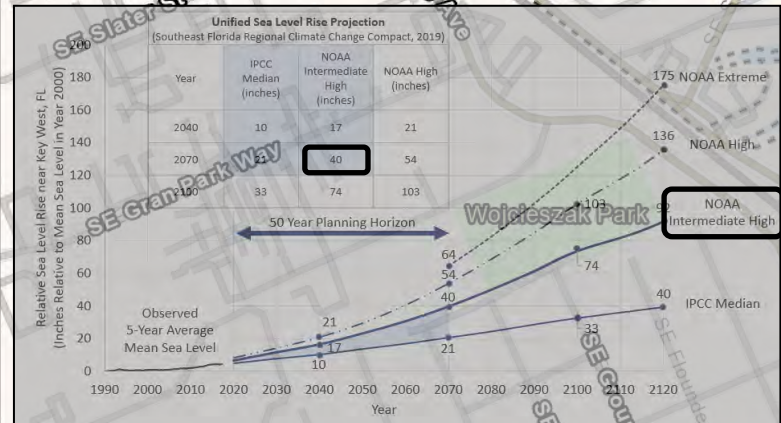
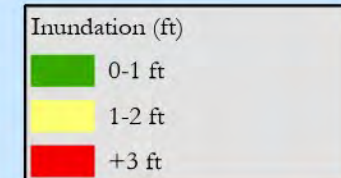
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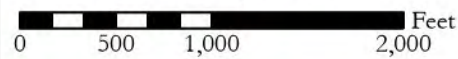
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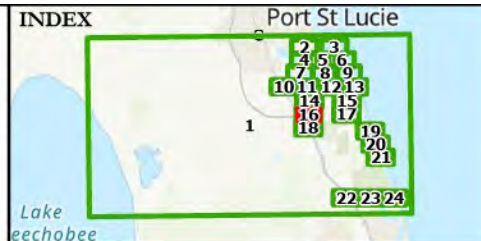
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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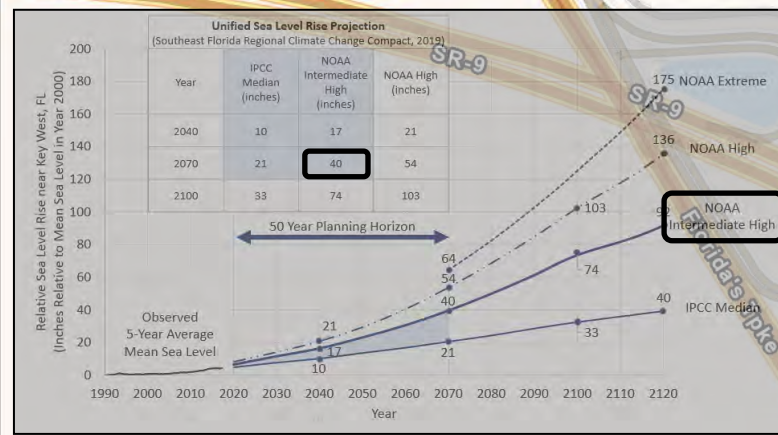
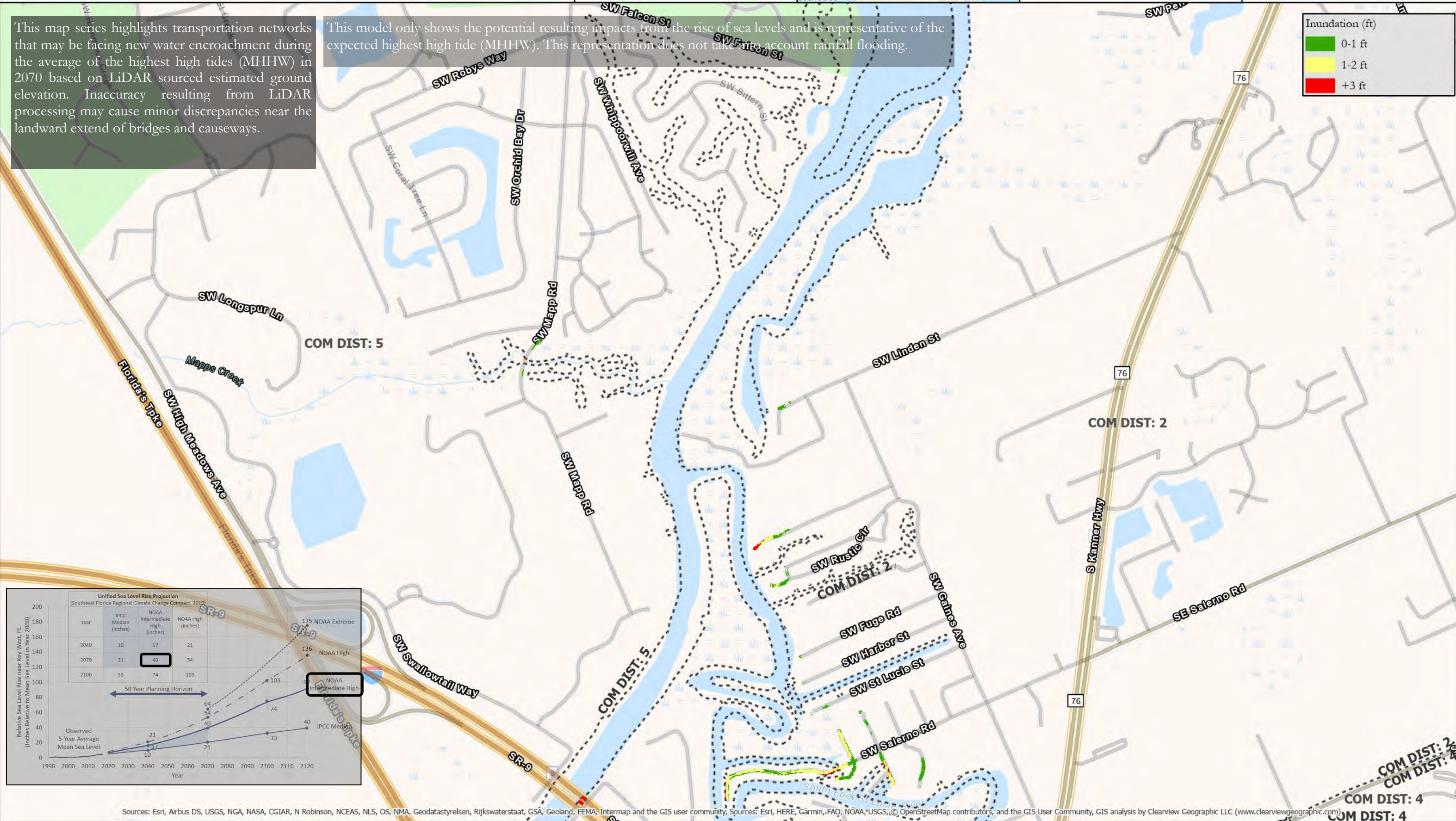
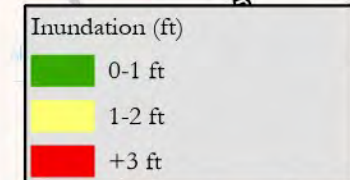
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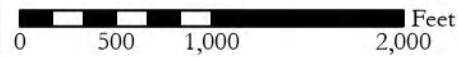
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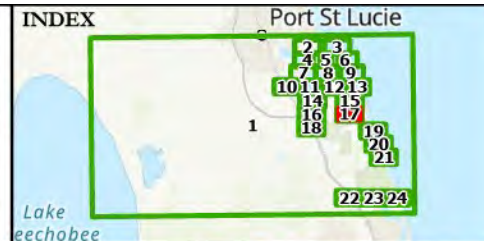
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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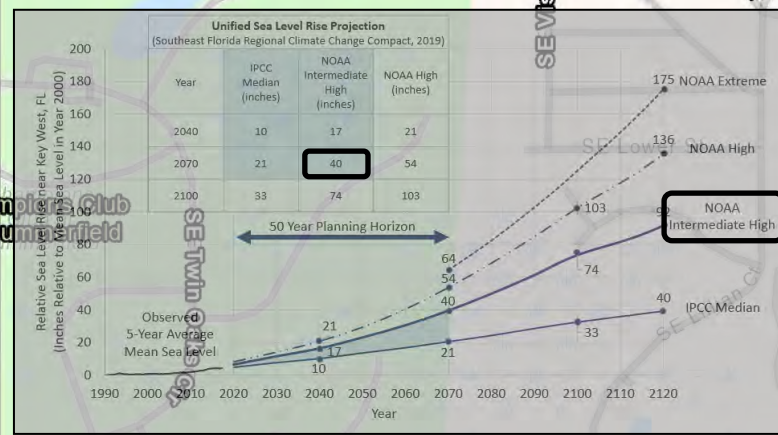
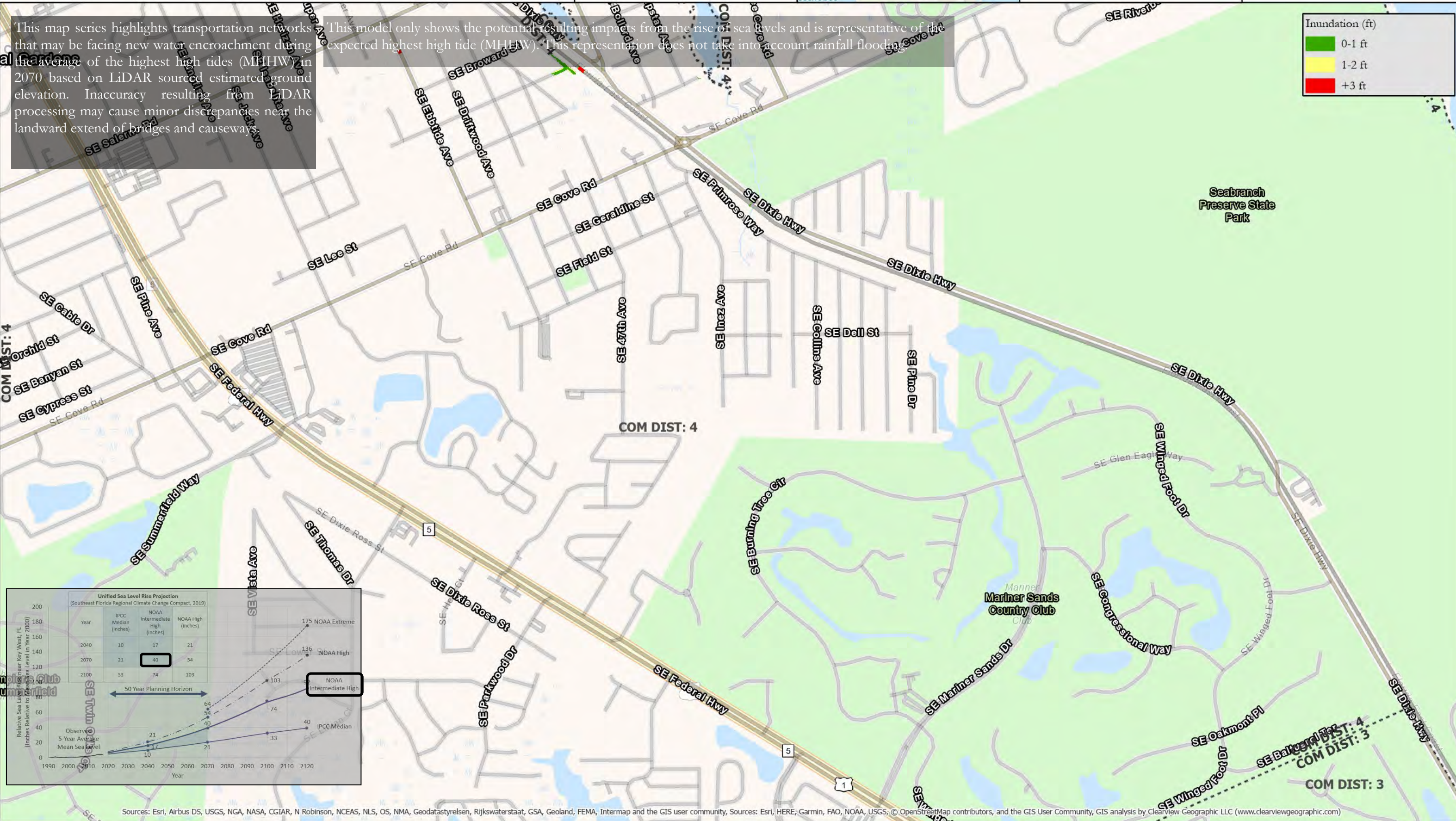
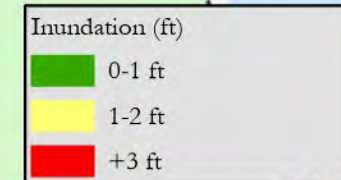
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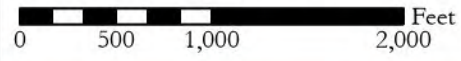
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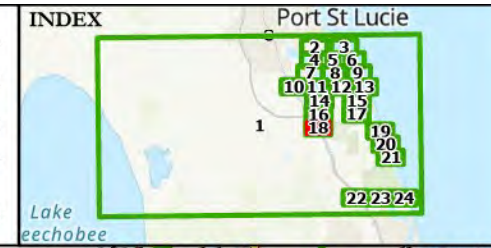
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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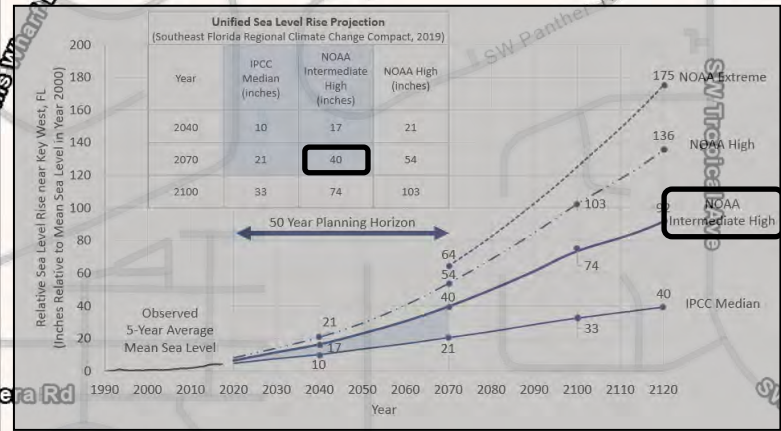
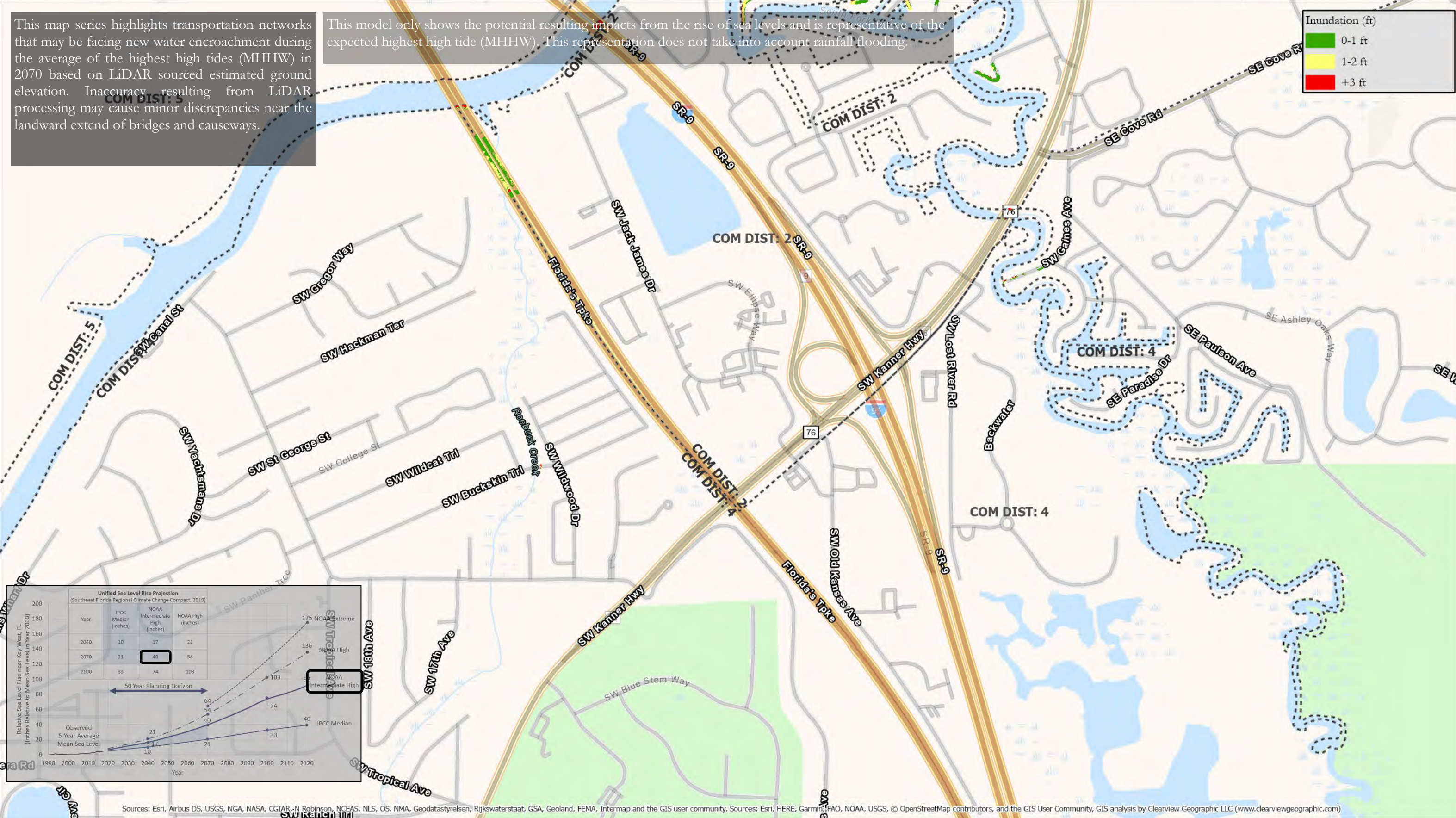
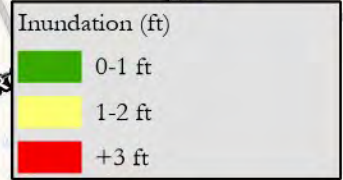
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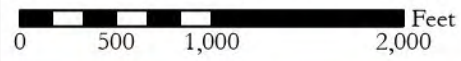
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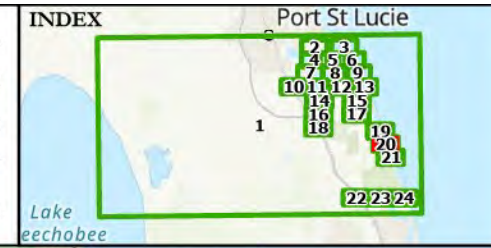
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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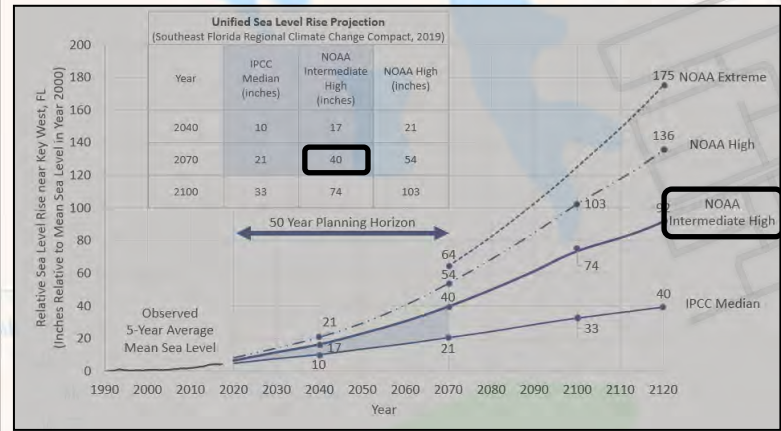
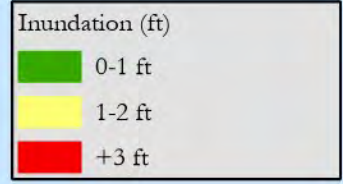
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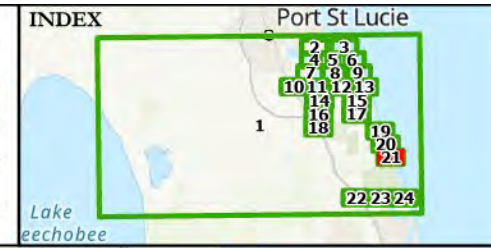
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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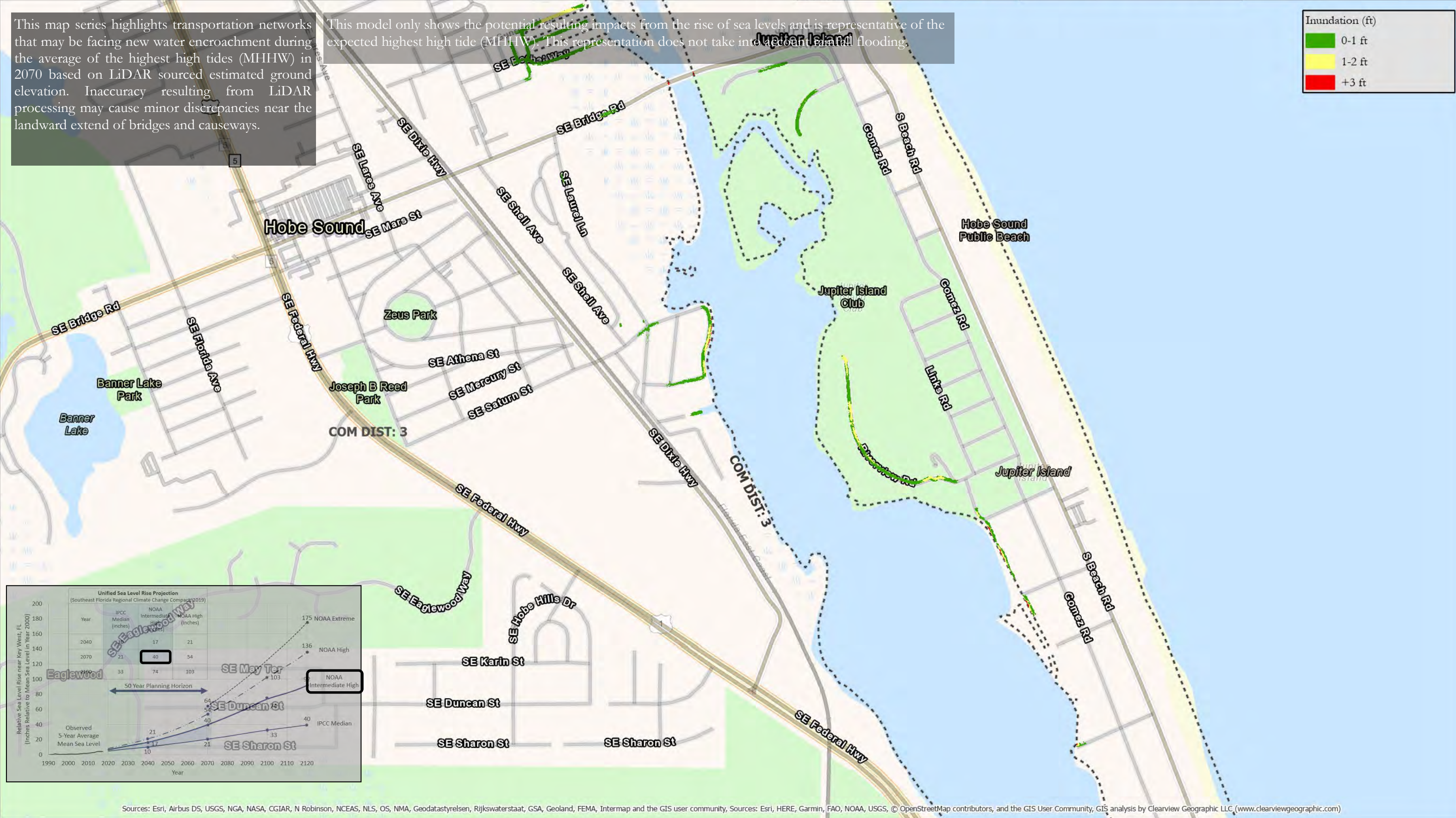
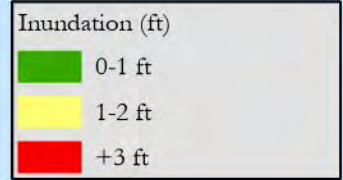
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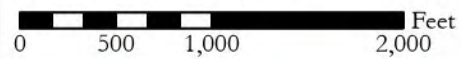
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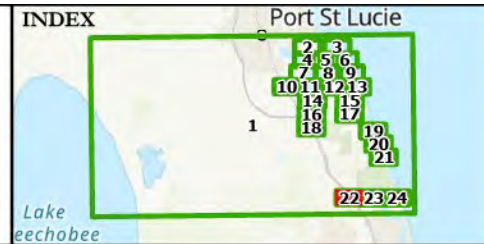
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Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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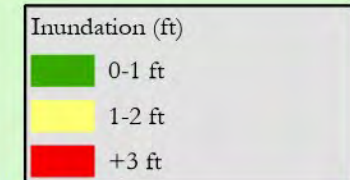
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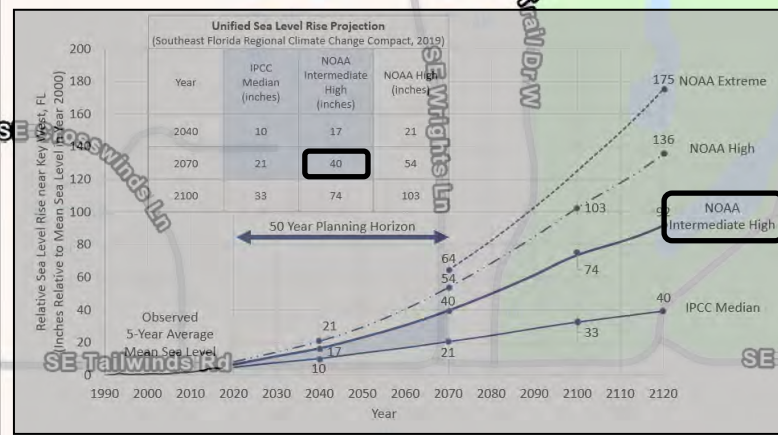
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MINIMAL DECTECTABLE IMPACTS

COM DIST: 3



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

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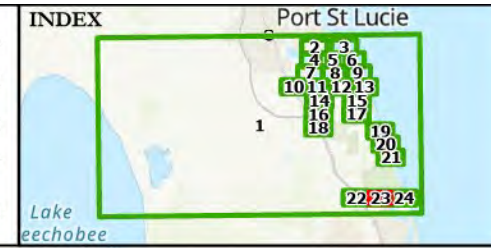
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Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
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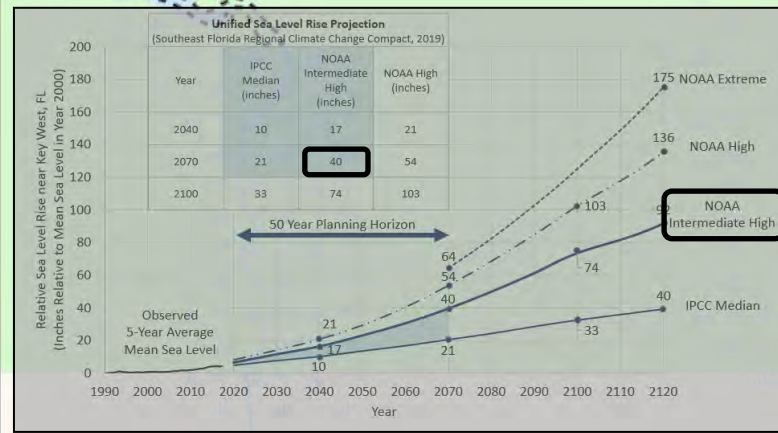
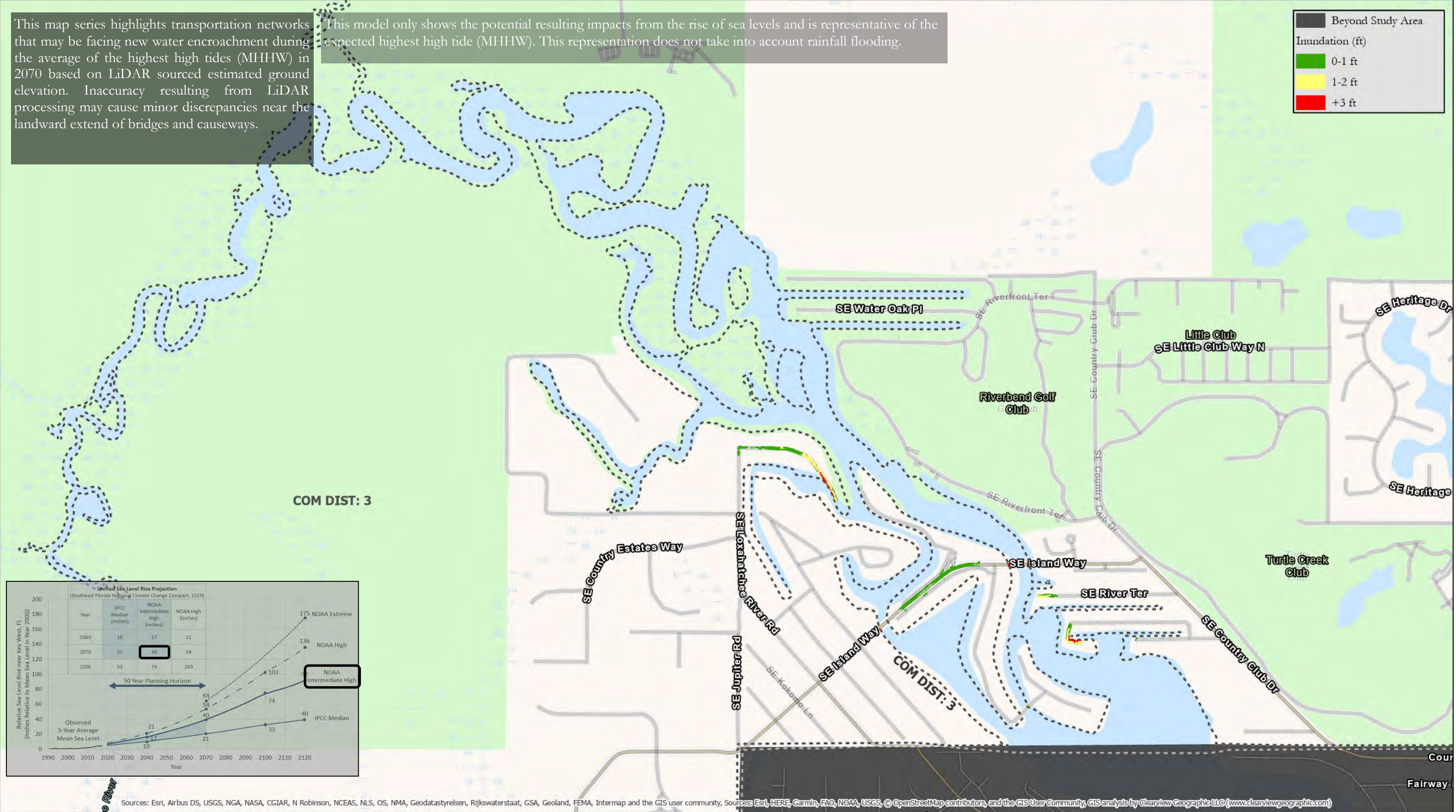
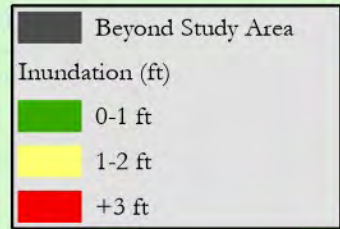
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This map series highlights transportation networks that may be facing new water encroachment during the average of the highest high tides (MHHW) in 2070 based on LiDAR sourced estimated ground elevation. Inaccuracy resulting from LiDAR processing may cause minor discrepancies near the landward extend of bridges and causeways.

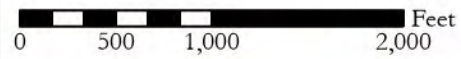
This model only shows the potential resulting impacts from the rise of sea levels and is representative of the expected highest high tide (MHHW). This representation does not take into account rainfall flooding.



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GIS analysis by Clearview Geographic LLC (www.clearviewgeographic.com)

Transportation Vulnerability

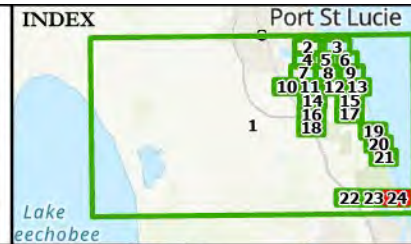
R1911 Resiliency Planning Grant
Martin County, Florida



AClark 06/03/2020 Z./1836B



Projection: NOAA Intermediate High
Year: 2070
Water Rise (Inches): Approx. 40
Scenario: MHHW
Page: 24 of 24



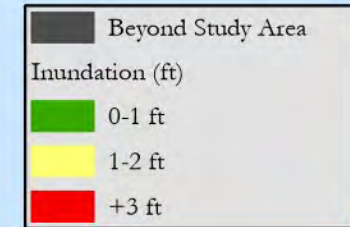
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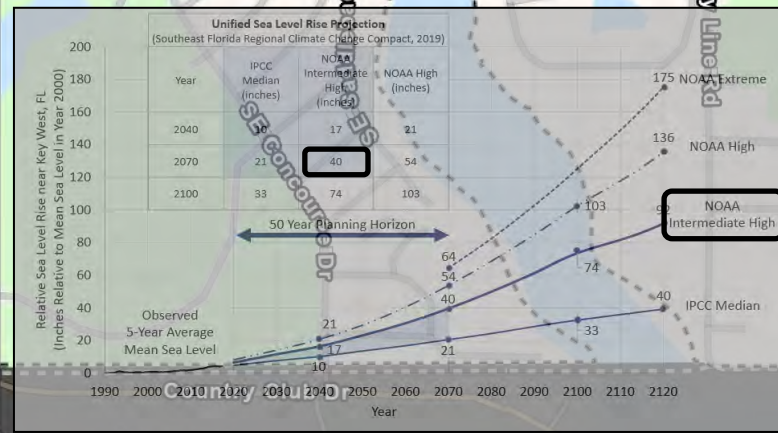
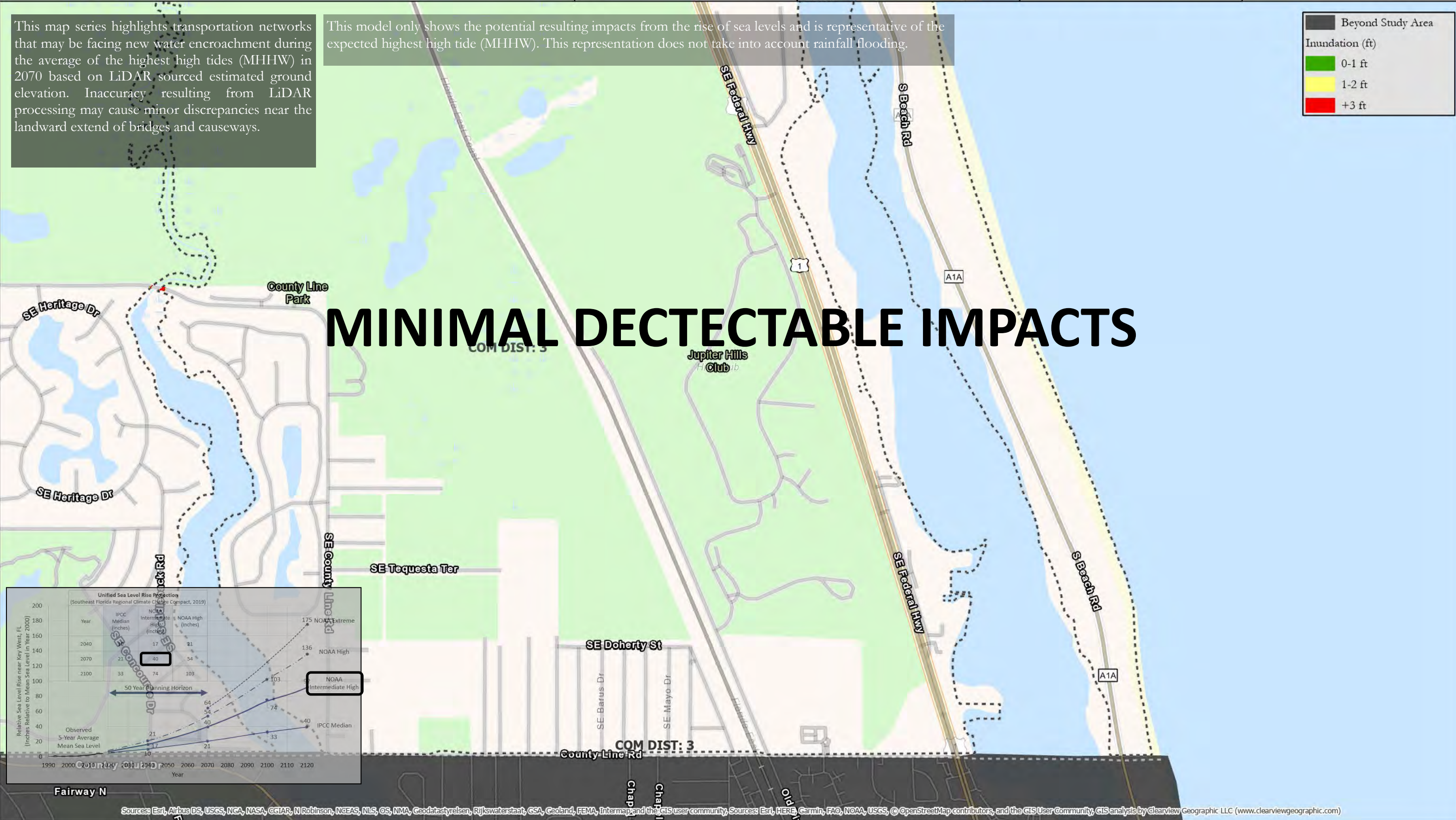
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MINIMAL DETECTABLE IMPACTS



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