Strategies for Coastal Resilience in Fort Lauderdale

New Partners for Smart Growth, Portland, OR   February 12

CITY OF FORT LAUDERDALE
Nancy J. Gassman, Ph.D. – Assistant Public Works Director
ABOUT FORT LAUDERDALE

• Encompasses nearly 33 square miles
• Population of ~ 170,000
• Daytime population ~255,000
• 7 miles of public beach
• 165 miles of canals and waterways
• Equates to 337 miles of shoreline
Our Climate Challenges and Limitations

- High groundwater table
- Low-lying residential streets
- Sea level rise
- Extreme weather
- Low and deteriorating seawalls
- Aging infrastructure
- Absence of stormwater infrastructure
- Lack of green space
Regional Vision and Action Plan
2017

Municipal Vision Plan
2035

Municipal Action Plan
2018
December 15, 2015 Resolution:
Use of this projection for the purposes of sea level rise adaptation planning activities.

### Unified Sea Level Rise Projection
(Southeast Florida Regional Climate Change Compact, 2015)

<table>
<thead>
<tr>
<th>Year</th>
<th>IPCC AR5 Median (inches)</th>
<th>USACE High (inches)</th>
<th>NOAA High (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2030</td>
<td>6</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>2060</td>
<td>14</td>
<td>26</td>
<td>34</td>
</tr>
<tr>
<td>2100</td>
<td>31</td>
<td>61</td>
<td>81</td>
</tr>
</tbody>
</table>

- **Possible**
- **More Likely**

Relative Sea Level Rise near Key West, FL
(inches relative to mean sea level)


CITY OF FORT LAUDERDALE
Fort Lauderdale
Sea Level Rise
Vulnerability Assessment

* Airports
* Bridges
* City Arterial Roads
* City Hall
* City Parks
* Community Re-development Areas (CRA)
* County Parks
* Evacuation Routes

* Fire Rescue Stations
* Hospitals
* Law Enforcement Assets
* Schools
* WTP/WWTP
* Wave
* Regional Activity Centers (RAC)
Identification of 16 Adaptation Action Areas meeting minimum AAA criteria

Includes 38 Capital Projects in the Community Investment Plan (CIP) for funding
Designated Adaptation Action Areas and Projects
FY 2016-2020

GTL - GEORGE T. LOHMeyer
WASTEWATER TREATMENT PLANT (see map 4)
P11781 Cryogenic Plant

HARBOR INLET (see map 4)
P12026 2100 SE 18th Street Stormwater Improvements
P12087 Bridge Replacement At South Ocean Drive

LAS OLAS ISLES (see map 4)
P12112 Del Mar Stormwater Improvements
P11968 Seven Isles Seawall Improvements

RIO VISTA (see map 4)
P12025 1436 Ponce De Leon Drive
Stormwater Improvements

VICTORIA PARK (see map 4)
P12082 Victoria Park Tidal And Stormwater Improvements
P12035 1000 NE 17th Way Stormwater Improvements

LEGEND

- AAA CIP Projects
- Adaptation Action Areas (AAA)
- Corporate Limits
- FDOT & Broward County Roads

Elevations (NAVD 88)
- 0'-2'
- 2'-4'
- 4'-6'
We are a resilient and safe coastal community.

Questions?

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