RESOLUTION NO. 2020 -_____

CITY OF POMPANO BEACH
Broward County, Florida

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, ADOPTING THE 2019 UPDATE OF THE "UNIFIED REGIONAL SEA LEVEL RISE PROJECTION FOR SOUTHEAST FLORIDA" AS THE BASIS FOR SEA LEVEL RISE ADAPTATION PLANNING ACTIVITIES; PROVIDING FOR DISTRIBUTION; PROVIDING AN EFFECTIVE DATE.

WHEREAS, sea level rise in Southeast Florida increases the risk of coastal inundation, compromises the function of drainage and flood control systems, and compounds saltwater intrusion of the Biscayne Aquifer and potable water wells; and

WHEREAS, sea level rise, if unaddressed, increases the risk for flood-related losses and service disruptions with broad socio-economic implications; and

WHEREAS, sea level in Southeast Florida has risen 3.9 inches between 2000 and 2017 and it is unclear if this rapid rate of rise will continue to accelerate with time; and

WHEREAS, a working group of researchers, senior scientists, and lead engineers from federal and regional agencies and local universities convened by the Southeast Florida Regional Climate Change Compact ("Compact") authored an initial Unified Sea Level Rise Projection for Southeast Florida in April 2011; and

WHEREAS, the Compact reconvened this Sea Level Rise Work Group in 2014 to develop an Updated Unified Sea Level Rise Projection for Southeast Florida ("Updated Projection"), which the Work Group released in 2015; and

WHEREAS, the Compact reconvened this Sea Level Rise Work Group in 2018 to develop an Updated Unified Sea Level Rise Projection for Southeast Florida ("Updated Projection"), which the Work Group released in 2019; and

WHEREAS, the Updated Projection and associated guidance document were designed to be applied across the four counties of the Compact (Broward, Palm Beach, Miami-Dade and Monroe) to ensure that all major infrastructure projects throughout Southeast Florida have a common basis for design and construction relative to expected future sea levels; and

WHEREAS, the Updated Projection, incorporating both lower and upper boundaries based on global trends and local conditions, is considered appropriate guidance for the majority of land use and infrastructure planning decision and investments in the region; and

WHEREAS, the Updated Projection presents a sea level rise of 10 to 17 inches by 2040 and 21 to 54 inches by 2070, above the 2000 baseline, and also includes sea level rise projections for 2120, as well as a third, higher curve for long-term, risk-intolerant investments, as shown in Exhibit A; and

WHEREAS, successful implementation of the community-wide Broward County Climate Action Plan, the Southeast Florida Regional Climate Action Plan, and specific efforts to reduce risk and bolster community and economic resilience requires significant action to address sea level rise within the near-term planning horizon (through 2070); and

WHEREAS, the Broward County Board of County Commissioners adopted the Updated Projection on March 10, 2020, and directed County staff to use the Updated Projection as the basis for sea level rise adaptation planning and project design; and

WHEREAS, the Unified Sea Level rise Projection for Southeast Florida shall be updated by the Compact Sea Level Rise Work Group, as warranted, based on scientific advancements, and shall be transmitted to the governing bodies of the counties and municipalities of Southeast Florida for acceptance following each revision; and

WHEREAS, consistent planning across the region and levels of government is essential for resilient development and adaptation across our communities; now, therefore,

BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA:

SECTION 1. The 2020 Update of the Unified Sea Level Rise Projection for Southeast Florida ("Updated Projection") is hereby adopted for use in the City of Pompano Beach, and municipal staff shall use the Updated Projection as the basis for sea level rise adaptation planning activities.

SECTION 2. The Updated Projection shall be considered in agency planning and decision-making, project plans, and infrastructure design.

SECTION 3. The City Commission agrees to fully consider future revisions of the Unified Sea Level Projection for Southeast Florida for adoption and use in the city.

SECTION 4. The City Clerk is directed to distribute this resolution to the Broward County Board of County Commissioners.

SECTION 5. This Resolution shall become effective upon passage.

PASSED AND ADOPTED this _____ day of _____, 2020.

_____

REX HARDIN, MAYOR

ATTEST:

_____

ASCELETA HAMMOND, CITY CLERK

:jrm
6/15/2020
l:reso/2020-228

Exhibit A
2019 Sea Level Rise Projections

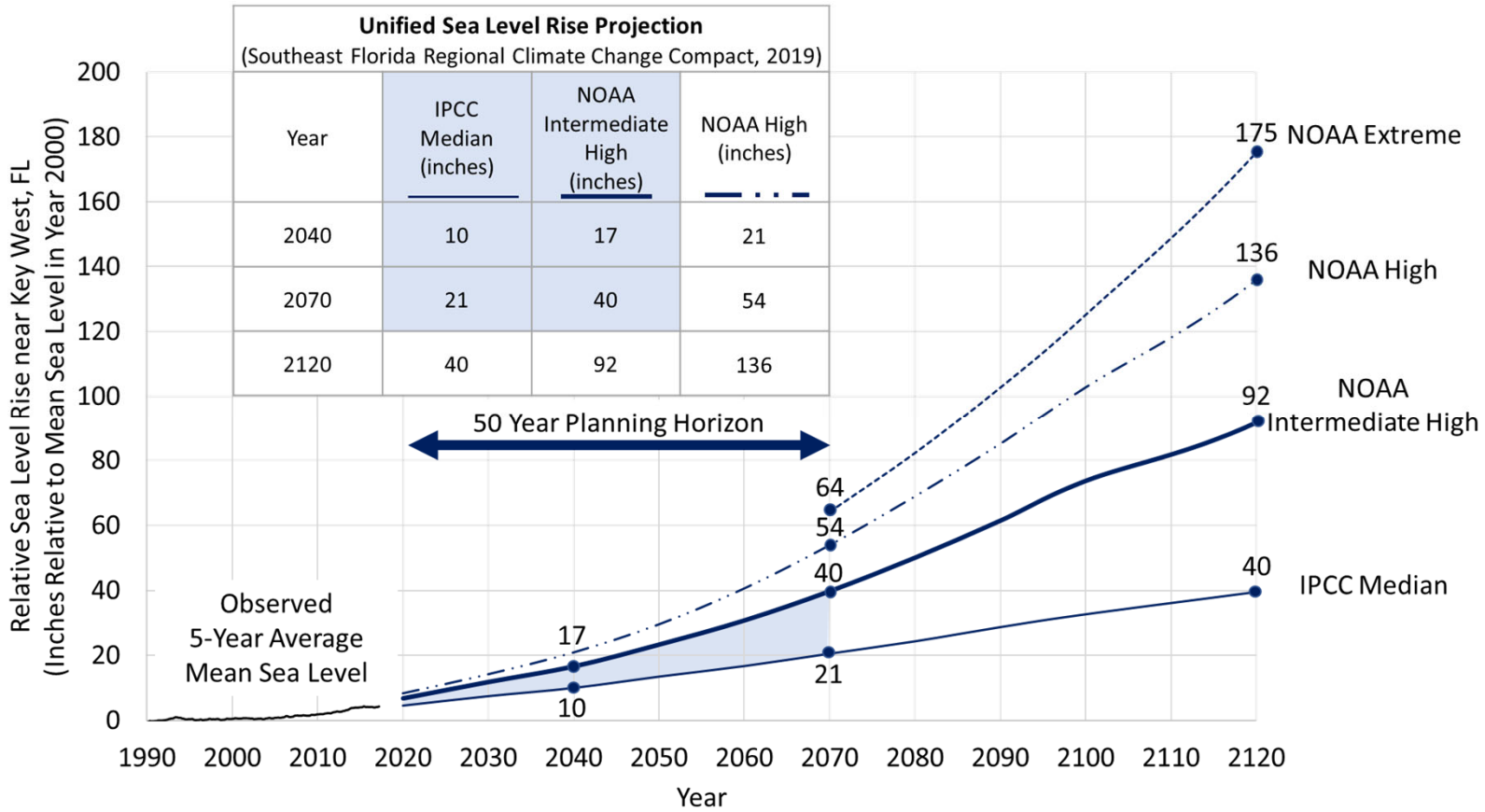

Figure 1: Unified Sea Level Rise Projection. These projections start from zero in year 2000 and are referenced to mean sea level at the Key West tide gauge. Based on the 5 year average of mean sea level, approximately 3.9 inches of sea level rise has occurred from 2000 to 2017 (see historic sea level section of guidance document). The projection includes global curves adapted for regional application: the median of the IPCC AR5 RCP8.5 scenario (Growing Emissions Scenario) as the lowest boundary (solid thin curve), the NOAA Intermediate High curve as the upper boundary for short term use until 2070 (solid thick line), the NOAA High curve as the upper boundary for medium and long term use (dash dot curve). The shaded zone between the IPCC AR5 RCP8.5 median curve and the NOAA Intermediate High is recommended to be generally applied to most projects within a short -term planning horizon. Beyond 2070, the adaptability, interdependencies and costs of the infrastructure should be weighed to select a projection value between the IPCC Median and the NOAA High curves. The NOAA Extreme curve (dash curve) brackets the published upper range of possible sea level rise under an accelerated ice melt scenario. Emissions reductions could reduce the rate of sea level rise significantly.