re-sil-ience Timeline

January 2010

The Southeast Florida Regional Climate Change Compact, with members including Miami-Dade, Broward, Monroe and Palm Beach County, is born to coordinate mitigation and adaption activities across county lines.

November 14, 2012

City Commission adopts the 2011 Stormwater Master Plan. Goals for the program include maintaining passable roads for emergency and evacuation traffic and keeping flood stages below the first floors of homes and buildings during intense rain events, such as 5.9 inches of rainfall in 24 hours. Based on intermediate sea level rise projections and a need to protect against projected spring and fall tidal conditions over the next 50 years, a minimum seawall height of 3.2 feet NAVD is recommended.

December 17, 2014

City Commission revises standard seawall height to allow for 3.7 NAVD seawall cap, with a caveat that the seawalls have the structural capacity to add a 2 foot cap in the future.

July 23, 2014

City Commission approves the recommendation of the Blue Ribbon Panel on Flooding and Sea Level Rise to amend the 2011 minimum seawall elevation from 3.2 feet NAVD to 5.7 feet NAVD.

February 12, 2014

City Commission approves the Blue Ribbon Panel on Flooding and Sea Level Rise's recommendation to increase the minimum elevation of stormwater inlets from 0.5 feet to 2.7 feet NAVD in order for the inlets to be above the highest tidal elevations of the year and projected rate of sea level rise.

February 3, 2014 First trolley route, Alton-West, is

launched in South Beach marking the beginning of the free citywide circulator.

January 6, 2014

Mayor and Commission create a Blue Ribbon Panel on Flooding and Sea Level Rise.

September 19, 2009

Virginia Key station records highest king tide elevation of 1.58 feet NAVD at 8:48 a.m.

June 5, 2009

City records record rainfall of 9.88 inches following an intense rain event.

May 20, 2007

City records record rainfall of 6 inches in 6 hours with a peak of 2.72 inches per hour.

July 17, 2013

City Commission creates a Flood Task Force Ad Hoc committee.

May 2015

City enters into a two-year partnership with the Harvard Graduate School of Design for a series of sponsored design studios to study the impacts and potential responses to sea level rise in coastal communities like Miami Beach. This multi-year research project aims to examine the implications of rising sea levels and increased storm events on the city's economy, ecology, infrastructure and community identity.

February 2016 The Environment & Sustainability Department is created.

June 15, 2015

City's Tree Preservation Ordinance passes creating the Tree Preservation Program that aims to preserve and protect the municipality's urban forest.

July 21, 2015

February 11, 2015

City Commission approves a desired minimum crown of road elevation to be 3.7 NAVD. This elevation was selected by using the highest high tide elevation, which at the time was 1.7 NAVD and adding 1 foot for an anticipated 30 year sea level rise and an additional foot to ensure the base of the road will be dry over the life of the road.

The Mayor's Blue Ribbon Panel on Flooding and Sea Level Rise recommends that the seawall cap on all new private construction and all public seawall construction be changed from 3.2 feet NAVD to 5.7 feet NAVD throughout the city. However, on existing private seawalls that are being replaced or repaired and are not associated with new building construction, a minimum 4.0 NAVD elevation shall apply with the structural design to accommodate a seawall height extension to a minimum 5.7 NAVD.

September 2015

September 27, 2015

2.07 NAVD at 7:42 a.m.

Virginia Key station records new highest king tide elevation of

A Chief Resilience Officer position is created at the city.

January 2016 First green bike lane is installed running from 16 Street and Washington

Avenue to Alton Road.



Ordinance goes into effect, requiring LEED Gold Certification or Living Building Challenge certification for new construction over 7,000 sq. feet.

April 2016

City creates and adopts a ten-year Transportation Master Plan to enhance sustainable transit options and prioritize pedestrians.

May 11, 2016

City Commission amends Land Use Development regulations that pertain to the calculation of building height by establishing a freeboard minimum of 1 foot and maximum of 5 feet above base flood elevation for all properties and establishing minimum elevations of required yards in single-family districts.

December 2016

City completes the first Greenhouse Gas Inventory using 2014 as the baseline year. This marks the first step in establishing emissions reduction targets in an effort to help reduce the city's contribution to global climate change.



West Avenue project chosen for Resilience Accelerator Workshop, in collaboration with Columbia University, Miami-Dade County and the City of Miami, creating a more sustainable and resilient design for West Ave.

> **September 2018** Urban Land Institute releases their final report.

September 26, 2018

City releases report from third-party water quality expert which analyzes the first full year of sampling data collected. The review evaluates the program design and determines no red flags. The presentation is followed by a technical water quality discussion with representatives from the Florida Department of Environmental Protection, Miami-Dade County, the City of Miami and other regional stakeholders to discuss the findings.

April 2018 Urban Land Institute visits Miami Beach to evaluate the city's resilience and stormwater program.

January 2019

City releases proposed Clean Water Strategy that builds on existing stormwater management program. May 2019 Resilient305 Strategy to be published.

December 20, 2018

City hosts City of Miami, Village of Key Biscayne, Miami-Dade County and University of Miami representatives to begin discussing a unified and collaborative regional water quality sampling plan.

November 2017

Harvard University Graduate School of Design completes their study and publishes a report titled South Florida and Sea Level – The Case of Miami Beach.