

C4 T REFERRAL TO THE LAND USE AND SUSTAINABILITY COMMITTEE TO
PRESENT AND DISCUSS THE DRAFT SEA LEVEL RISE ADAPTATION PLAN
FUNDED BY THE RESILIENT FLORIDA GRANT PROGRAM
Applicable Area:

MIAMI BEACH

COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission

FROM: Eric Carpenter, City Manager

DATE: February 3, 2025

TITLE: REFERRAL TO THE LAND USE AND SUSTAINABILITY COMMITTEE TO PRESENT AND DISCUSS THE DRAFT SEA LEVEL RISE ADAPTATION PLAN FUNDED BY THE RESILIENT FLORIDA GRANT PROGRAM.

RECOMMENDATION

The Administration recommends the Mayor and City Commission refer this item to the Land Use and Sustainability Committee.

BACKGROUND/HISTORY

On September 20, 2024, Letter to Commission was issued, LTC # 418-2024, (Attachment A) detailing the motion made by The Neighborhood Resilience Projects Advisory Committee (NRPAC) on September 18, 2024, regarding the draft Vulnerability Assessment and Adaptation Plan.

On October 30th, 2024, Resolution No. 2024-33332 (Attachment B) was adopted by the Mayor and City Commission of the City of Miami Beach, accepting the City of Miami Beach Sea Level Rise Vulnerability Assessment and Adaptation Plan and supporting the continued development of an adaptation plan focused on changing conditions, offering a more flexible and innovative approach compared to traditional planning.

ANALYSIS

The City was awarded a Resilient Florida grant to develop a Sea Level Rise Vulnerability Assessment and Adaptation Plan. As a low-lying city surrounded by water, Miami Beach is increasingly vulnerable to flooding and the impacts of climate change, including intensifying coastal storm surges, more frequent and intense rainfall events, and higher annual king tides, which are all worsened by the addition of rising sea levels. The urgency of the issue is compounded by the City's unique porous limestone geologic setting that allows groundwater to push through the surface and flood interior parts of the City during high coastal water level conditions such as King Tides.

The draft plan outlines a comprehensive, forward-thinking, and flexible framework to safeguard the City's infrastructure, protect its residents, and maintain its position as a global destination for visitors. This plan builds on the results of the City's Sea Level Rise Vulnerability Assessment, which identified the most vulnerable infrastructure and facilities to be prioritized for flood protection based on their projected timing of flood exposure, potential for asset damage, and downstream impacts to the community.

The Adaptation Plan is also part of the City's broader resilience framework. It integrates ongoing City plans and initiatives to align adaptation efforts with existing flood management, land use, and

neighborhood improvement efforts. Integration with existing City plans also promotes the adoption of long-term resilience considerations into individual plan updates based on evolving climate conditions. The goal of the Adaptation Plan is to develop a holistic, coordinated path to flood resilience that addresses the complex, interconnected nature of sea level rise hazards, which often require a flexible and phased approach to adapt.

Community engagement through workshops and focus groups has helped shape the plan by capturing flooding concerns and community priorities. This initiative is part of the Resilient Florida Grant program, which supports both current efforts and positions the City to secure additional funding for future resilience projects. The draft Sea Level Rise Adaptation Plan will be shared with the community at a meeting scheduled for February 20, 2024.

FISCAL IMPACT STATEMENT

N/A

Does this Ordinance require a Business Impact Estimate? (FOR ORDINANCES ONLY)

If applicable, the Business Impact Estimate (BIE) was published on:

See BIE at: <https://www.miamibeachfl.gov/city-hall/city-clerk/meeting-notice/>

FINANCIAL INFORMATION

CONCLUSION

The Administration recommends the Mayor and City Commission refer this item to the Land Use and Sustainability Committee.

Applicable Area

Citywide

Is this a "Residents Right to Know" item, pursuant to City Code Section 2-17?

Yes

Is this item related to a G.O. Bond Project?

No

Was this Agenda Item initially requested by a lobbyist which, as defined in Code Sec. 2-481, includes a principal engaged in lobbying? No

If so, specify the name of lobbyist(s) and principal(s):

Department

Environment and Sustainability

Sponsor(s)

Commissioner Laura Dominguez

Co-sponsor(s)

Condensed Title

Ref: LUSC - Present and Discuss Sea Level Rise Adaptation Plan. (Dominguez) EN

Previous Action (For City Clerk Use Only)

MIAMI BEACH

OFFICE OF THE CITY MANAGER

LTC # **418-2024**

LETTER TO COMMISSION

TO: Honorable Mayor Steven Meiner and Members of the City Commission

FROM: Rafael E. Granado, City Clerk

DocuSigned by:
Rafael E. Granado
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DATE: September 20, 2024

SUBJECT: Neighborhood Resilience Projects Advisory Committee Motion

The purpose of this Letter to Commission is to provide the motion made at the Neighborhood Resilience Projects Advisory Committee meeting held on September 18, 2024.

Attachment: Neighborhood Resilience Projects Advisory Committee motion.

MH/AK

DS
MH

DS
AK



Neighborhood Resilience Projects Advisory Committee

Committee Members

Clare McCord, Chair

Amy Knowles, Liaison

Members:

Clare McCord (Chair-present), Curt Dyer (Vice-Chair present), Alon Alexander (virtual), Julie Basner (present), Karin Matos (present), Ron Starkman (present), Galen Treuer (present)

TO: Honorable Mayor Steven Meiner and Members of the City Commission

FROM: Clare McCord, Neighborhood Resilience Projects Advisory Committee Chair

DATE: September 20, 2024

SUBJECT: Neighborhood Resilience Projects Advisory Committee motion regarding the City of Miami Beach Sea Level Rise Vulnerability Assessment and Adaptation Plan update

The Neighborhood Resilience Projects Advisory Committee (NRPAC) met on September 18, 2024 and passed the following motion:

On September 18, 2024, the Neighborhood Resilience Projects Advisory Committee was presented the City's Sea Level Rise Vulnerability Assessment report and Adaptation Plan. The Committee enthusiastically supports this work and the continued development of an Adaptation Plan focused on changing conditions, which is a more flexible and innovative approach than traditional planning.

Motion passed: 6-0

Sincerely,

DocuSigned by:
Clare McCord
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Clare McCord

Chair, Neighborhood Resilience Projects Advisory Committee Chair

RESOLUTION NO. 2024-33332

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE CITY OF MIAMI BEACH SEA LEVEL RISE VULNERABILITY ASSESSMENT AND ADAPTATION PLAN, AND SUPPORTING THE CONTINUED DEVELOPMENT OF AN ADAPTATION PLAN FOCUSED ON CHANGING CONDITIONS, WHICH IS A MORE FLEXIBLE AND INNOVATIVE APPROACH THAN TRADITIONAL PLANNING.

WHEREAS, the City of Miami Beach ("City") has long been a leader in recognizing the threat posed by sea level rise and taking proactive actions to establish a resilient city prepared for future changes; and

WHEREAS, due to its relatively low elevation and porous geology, the City is at the forefront of experiencing the impacts of sea level rise, particularly in Southeast Florida; and

WHEREAS, the City has already begun to experience the impacts of sea level rise, including more frequent flooding of coastal roadways and low-lying areas during king tide events and more widespread ponding during heavy rainfall events; and

WHEREAS, these flooding events cause travel disruptions, damage to City infrastructure and private property, and during extreme events, can pose significant threats to life and safety; and

WHEREAS, future sea level rise is projected to increase the scale and severity of flooding, as coastal floodwaters become more likely to overtop existing shoreline infrastructure, and elevated water levels further reduce the effectiveness of the City's stormwater drainage systems; and

WHEREAS, to better understand the risks posed by future sea level rise, the City has conducted the Sea Level Rise Vulnerability Assessment ("Assessment"), identifying City-owned and regionally significant assets most vulnerable to various flood sources across a range of current and future conditions; and

WHEREAS, the Assessment provides critical insights to help the City prioritize assets most vulnerable to sea level rise, supporting ongoing adaptation planning efforts; and

WHEREAS, the objectives of the Assessment include identifying and prioritizing critical City assets at risk from future flood events, ensuring protection of critical assets serving the City's most socially vulnerable communities, and engaging the public and stakeholders in the process; and

WHEREAS, the Assessment is compliant with Section 380.093, Florida Statutes, which defines a coordinated statewide effort through the Resilient Florida Program to adapt communities to increased risks from sea level rise, extreme weather, and precipitation; and

WHEREAS, completion of the Assessment ensures that the City remains eligible for funding assistance for projects addressing specific flood vulnerabilities identified in the Assessment; and

WHEREAS, the City is heavily urbanized, with buildings, roadways, and impervious surfaces contributing to stormwater drainage issues, a problem projected to worsen as future sea level rise challenges the capacity of the City's stormwater infrastructure; and

WHEREAS, the City, in partnership with regional efforts such as the Southeast Florida Regional Climate Change Compact and its own Blue Ribbon Panel on Flooding and Sea Level Rise, has already implemented actions such as elevating roadways, installing stormwater pumps, and increasing seawall minimum heights to respond to sea level rise; and

WHEREAS, the findings of the Assessment informed the development of the City's Adaptation Plan that includes strategies to integrate sea level rise adaptation into City planning, design, and operations; and

WHEREAS, future adaptation strategies, guided by the findings of this Assessment, will further enhance the City's resilience and safeguard its cultural and historical significance as a coastal city; and

WHEREAS, the full report of the City of Miami Beach Sea Level Rise Vulnerability Assessment and Adaptation Plan is available at www.mbrisingabove.com/va; and

WHEREAS, the Neighborhood Resilience Projects Advisory Committee met on September 18, 2024 and passed a motion supporting the existing work on sea level rise vulnerability and continued development of the City's Adaptation Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, that the City hereby accepts the Sea Level Rise Vulnerability Assessment and Adaptation Plan and supports the continued development of an Adaptation Plan that focuses on evolving conditions, providing a flexible and innovative approach to planning for the future.

PASSED AND ADOPTED as of the 30 day of October, 2024:

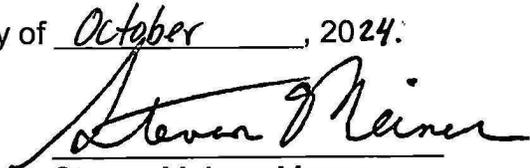
ATTEST:



Rafael E. Granado, City Clerk

Sponsored by Commissioner Laura Dominguez

NOV 05 2024



Steven Meiner, Mayor



APPROVED AS TO
FORM & LANGUAGE
& FOR EXECUTION



City Attorney

10/21/2024

Date

MIAMI BEACH

COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission

FROM: City Attorney Ricardo J. Dopico

DATE: October 30, 2024

TITLE: A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE CITY OF MIAMI BEACH SEA LEVEL RISE VULNERABILITY ASSESSMENT AND ADAPTATION PLAN, AND SUPPORTING THE CONTINUED DEVELOPMENT OF AN ADAPTATION PLAN FOCUSED ON CHANGING CONDITIONS, WHICH IS A MORE FLEXIBLE AND INNOVATIVE APPROACH THAN TRADITIONAL PLANNING.

RECOMMENDATION

BACKGROUND/HISTORY

ANALYSIS

The attached Resolution was prepared at the request of the sponsor, Commissioner Laura Dominguez.

FISCAL IMPACT STATEMENT

N/A

Does this Ordinance require a Business Impact Estimate?

(FOR ORDINANCES ONLY)

If applicable, the Business Impact Estimate (BIE) was published on:

See BIE at: <https://www.miamibeachfl.gov/city-hall/city-clerk/meeting-notices/>

FINANCIAL INFORMATION

CONCLUSION

Applicable Area

Citywide

Is this a "Residents Right to Know" item, pursuant to City Code Section 2-17?

No

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Department

City Attorney

Sponsor(s)

Commissioner Laura Dominguez

Co-sponsor(s)

Condensed Title

Accept Sea Level Rise Vulnerability Assessment and Adaptation Plan. (Dominguez) CA