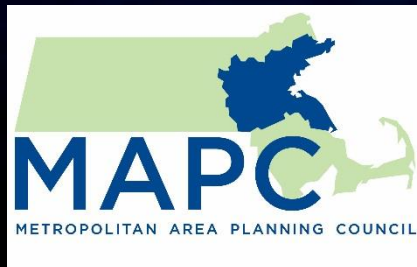


UMASS BOSTON + MAPC +UHI

Climate Change Projections for
**Greater Boston
Communities**

MAPC SUB-REGIONAL MEETING

MARCH 21, 2019



The background of the slide is a dark blue image of a city skyline, likely New York City, viewed from across a body of water. The skyline features several prominent skyscrapers, and the water in the foreground is dark with some small whitecaps. The overall tone is professional and modern.

Agenda

Introduction

Brainstorm Session

Next Steps

**Be sure to sign the sign-in
sheet!**

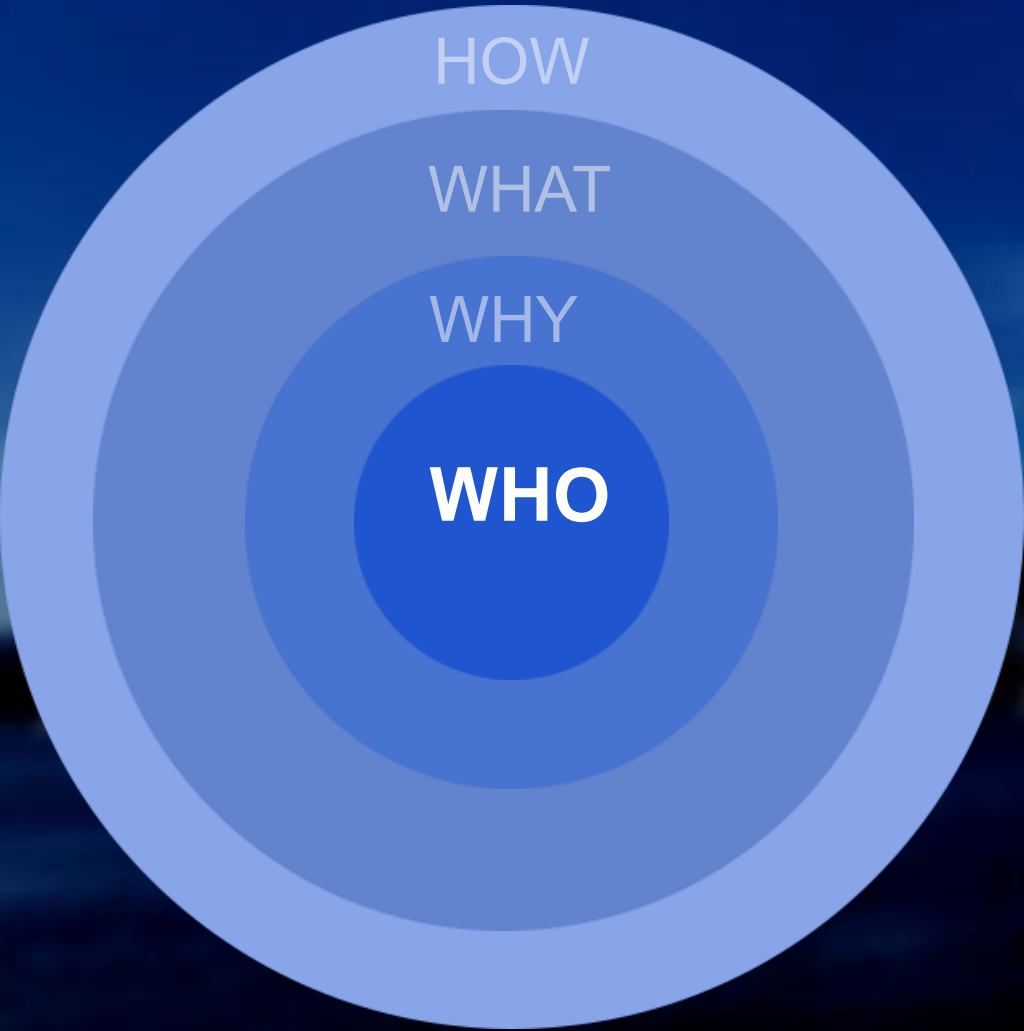


HOW

WHAT

WHY

WHO



Greater Boston Research Advisory Group

(G-BRAG)

Managed by the School for the Environment at UMass Boston (E. Douglas and P. Kirshen, Joint Principal Investigators), with collaboration from the Urban Harbors Institute and the MAPC, and oversight by a Steering Committee made of a variety of local stakeholders. The project is funded by the Barr Foundation.



**Provide Greater
Boston Area
stakeholders with
projections to protect
and prepare for climate
change-related
impacts.**

2016

Boston Climate Ready Report



**Extreme
Precipitation**



**Extreme
Temperatures**

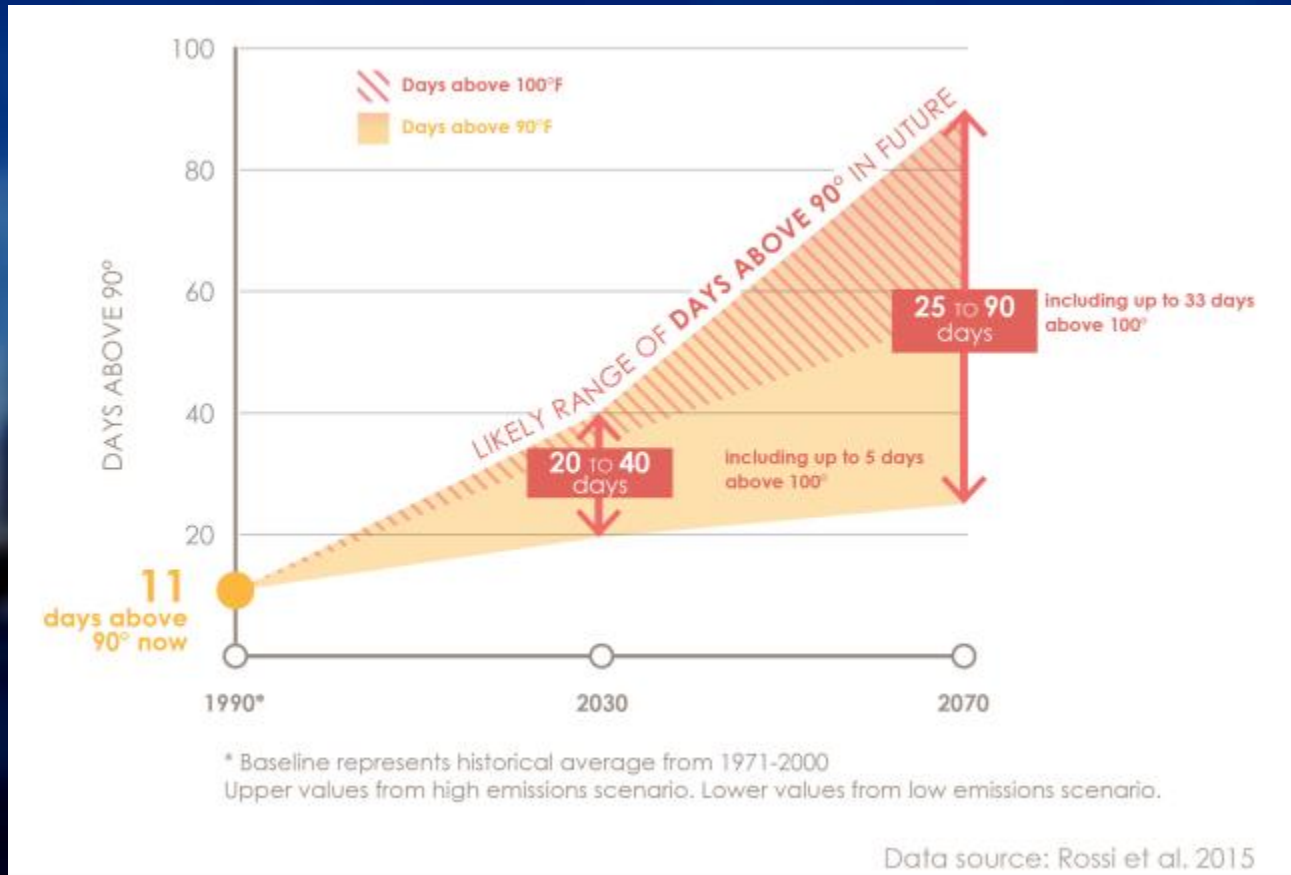


Sea Level Rise



Coastal Storms

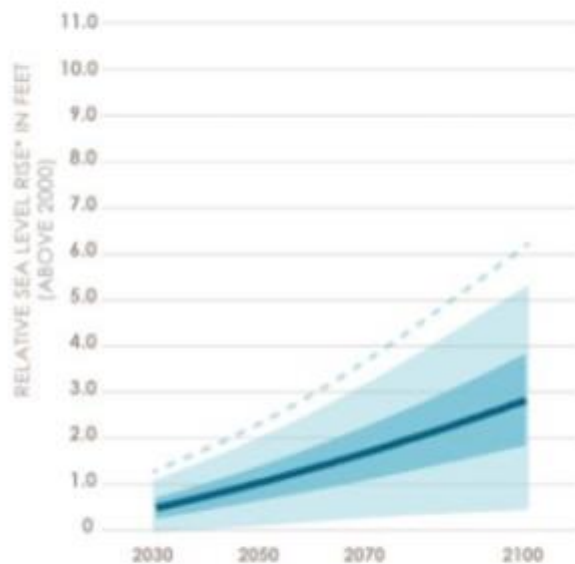
2016 Boston Climate Ready Report



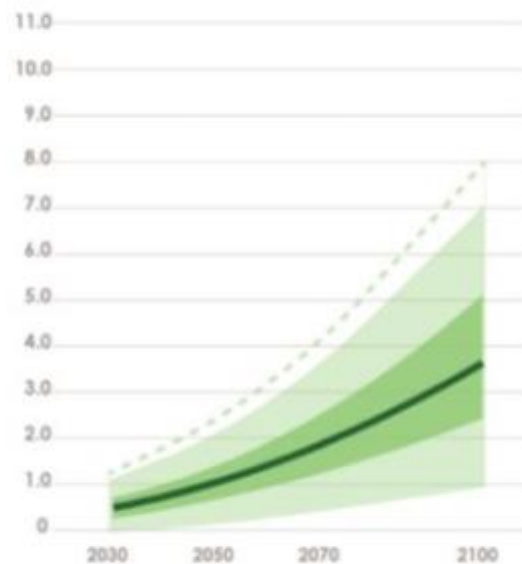
2016 Boston Climate Ready Report

GREENHOUSE GAS EMISSIONS REDUCTIONS IMPACT FUTURE SEA LEVELS IN BOSTON

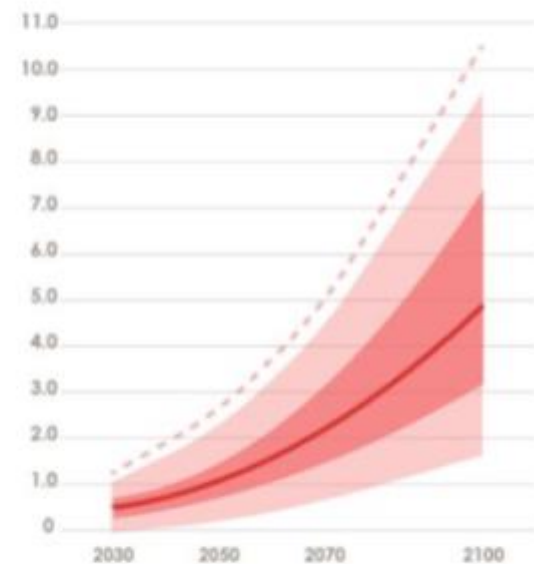
LOW EMISSIONS SCENARIO (MAJOR EMISSIONS REDUCTION)



MEDIUM EMISSIONS SCENARIO (MODERATE EMISSIONS REDUCTION)



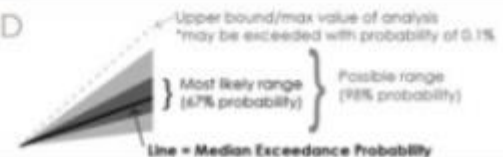
HIGH EMISSIONS SCENARIO (BUSINESS AS USUAL)



* Relative sea level rise is the change in sea level resulting from a combination of increases in ocean height and decreases in land surface elevation ("subsidence").

Data Source: BRAG Report

LEGEND





Listen

to communities about what worries them and what information they need to build resilient communities. This will be accomplished by meetings and a survey.

Collaborate

with scientists to examine peer-reviewed pertinent information to update climate change projections.

Publish

the final project report and special interest reports.

Project Schedule

January, 2019: Project Begins

February – April, 2019: Community Outreach

May, 2019: Engage Scientists

Summer, 2019 – 2020: Develop Special Report 1

Mid-2020: Complete Assessment of Updated
Climate Change Parameters

Summer, 2020 – 2021: Develop Special Report 2

December, 2021 - 2022: Complete Final Report

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1

Think

You will have 4 minutes to write down your answers to the questions! All papers will be collected at the end.



2

Pair

You have 12 minutes to share your thoughts with a small group (no more than 5). Prepare to share topics with the rest of the room!



3

Share

Each group will share ideas!

GBRAG Worksheet

Name (Not Required): _____

Email Address (Not Required): _____

TOPICS	Climate Change Impact 1	Needed Information	Climate Change Impact 2	Needed Information
EX: Transportation	Flooded Streets	Extreme Precipitation	Road Rutting	Groundwater and Sea Level Elevations

1 Think

You will have 4 minutes to write down your answers to the questions! All papers will be collected at the end. We appreciate if you write your name on the paper but it is not required.

2 Pair

You have 12 minutes to share your thoughts with a small group (no more than 5). Prepare to share topics with the rest of the room!

3 Share

Each group will share ideas!

Questions:

What concerns you about how climate change may impact

- Transportation
- Housing
- Public health
- The economy/business
- Governance
- Environmental resources
- Social justice and equity
- Other

in the Massachusetts communities where you work and live?

What climate change information and projections would help you address these impacts?

1 Think

You will have 4 minutes to write down your answers to the questions! All papers will be collected at the end. We appreciate if you write your name on the paper but it is not required.

2 Pair

You have 12 minutes to share your thoughts with a small group (no more than 5). Prepare to share topics with the rest of the room!

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Each group will share ideas!

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- Transportation
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What climate change information and projections would help you address these impacts?

1 Think

You will have 4 minutes to write down your answers to the questions! All papers will be collected at the end. We appreciate if you write your name on the paper but it is not required.

2 Pair

You have 12 minutes to share your thoughts with a small group (no more than 5). Prepare to share one topic with the rest of the room!

3 Share

Each group will share ideas!

Questions:

What concerns you about how climate change may impact

- Transportation
- Housing
- Public health
- The economy/business
- Governance
- Environmental resources
- Social justice and equity
- Other

in the Massachusetts communities where you work and live?

What climate change information and projections would help you address these impacts?

Where will climate change impacts affect the communities?

Use the color sticky notes to write anticipated climate change impacts and place it on the map in the locations that will be most affected.

- Blue Transportation
- Yellow Housing
- Pink Public health/Social justice and equity
- Orange The economy/Business
- Green Environmental resources
- Purple Governance/Other

For example, a climate change impact for
TRANSPORTATION
could be “road flooding”.



UPCOMING EVENTS

Metro Mayors March 27th
(Boston)

MAGIC April 4th (Concord)

North Shore Task Force
April 18th (Danvers)



CONTACT US

Website

www.umb.edu/gbrag

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Greater Boston Research
Advisory Board

Email

Kimberly.Starbuck@umb.edu
and visit our website to take the
survey