

Beacon Hill Seminars – Spring 2018

Climate Vulnerability:

Responding to the Physical, Economic & Social
Challenges of Earth's Changing Climate

Session 4

The Climate Vulnerability of Fresh
Water Supplies and Public Health

28 March 2018

Suanna Selby Crowley, PhD, RPA

Director, Development & Outreach
Metropolitan Waterworks Museum, Inc.

Spring Semester 2018

Climate Vulnerability

Beacon Hill Seminars - 2018 Program

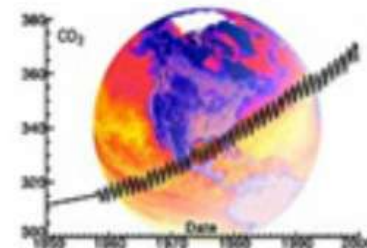
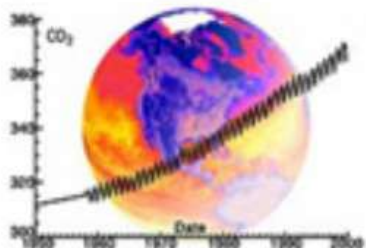
Responding to the Physical, Economic &
Social Challenges of Earth's Changing
Climate

conducted by

Timothy C. Weiskel

Research Director, Cambridge Climate Research Associates and
The Citizen-Science Online Learning Initiative (CSOLI)

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Dr. Suanna Selby Crowley is geoscientist with over 25 years of field and research experience. Her undergraduate work in anthropology and geology was completed at the **College of William & Mary in Virginia**. As a MacCracken Fellow at **New York University**, she received her Master's degree in anthropology and linguistics, and finished her Doctoral degree in anthropology and geoarchaeology.



Let's remember what is happening...



Excerpt from:

BHS beacon hill
seminars

<https://environmentaljusticetv.wordpress.com/2014/05/29/earth-under-water-worldwide-flooding-sea-level-rise-slr/> Tim Weiskel - 4

Let's remember where *we* are



Excerpt from:

<https://environmentaljusticetv.wordpress.com/2014/05/29/earth-under-water-worldwide-flooding-sea-level-rise-slr/>

Tim Weiskel - 5

Let's remember where *we* are
... in Earth's unfolding history...

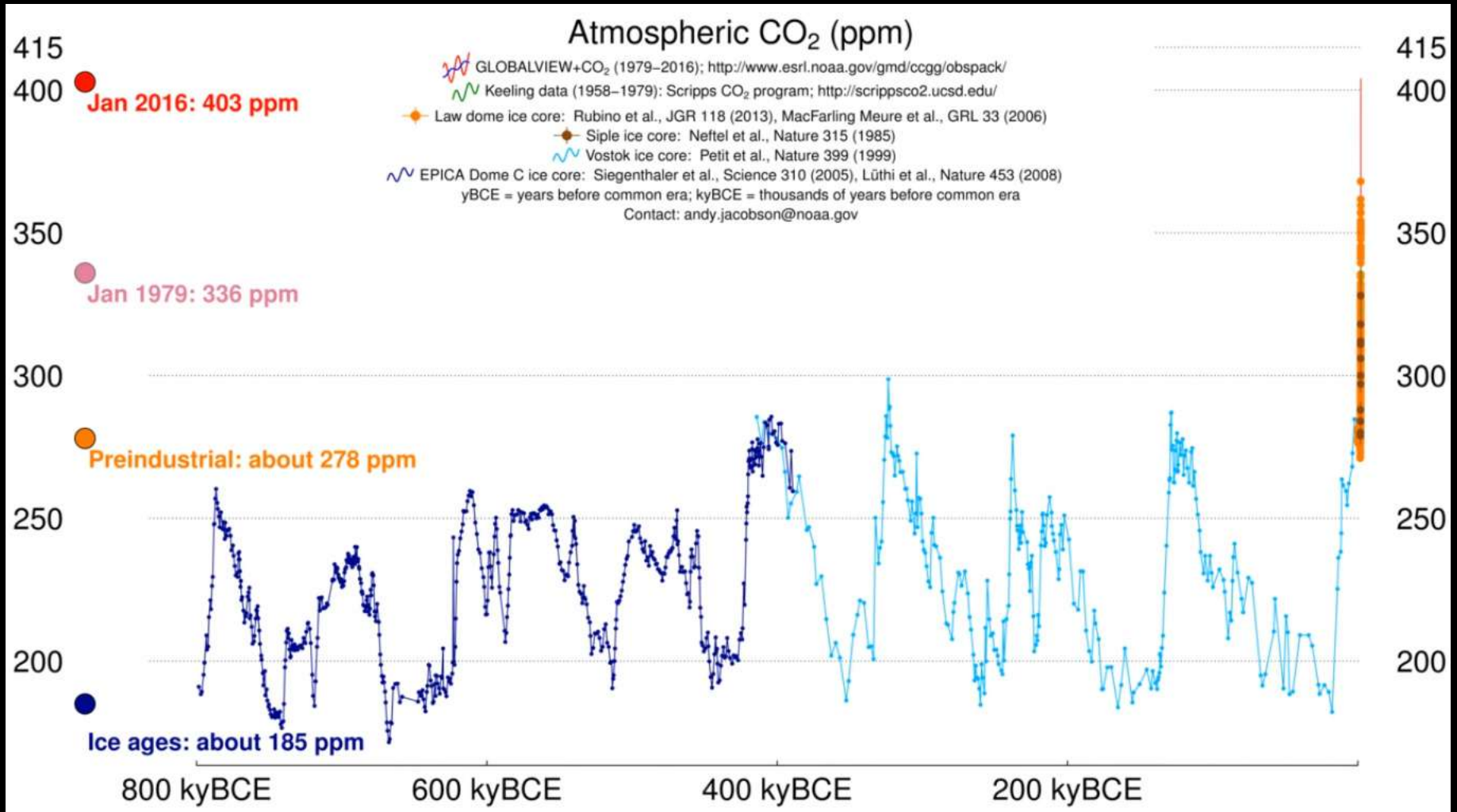


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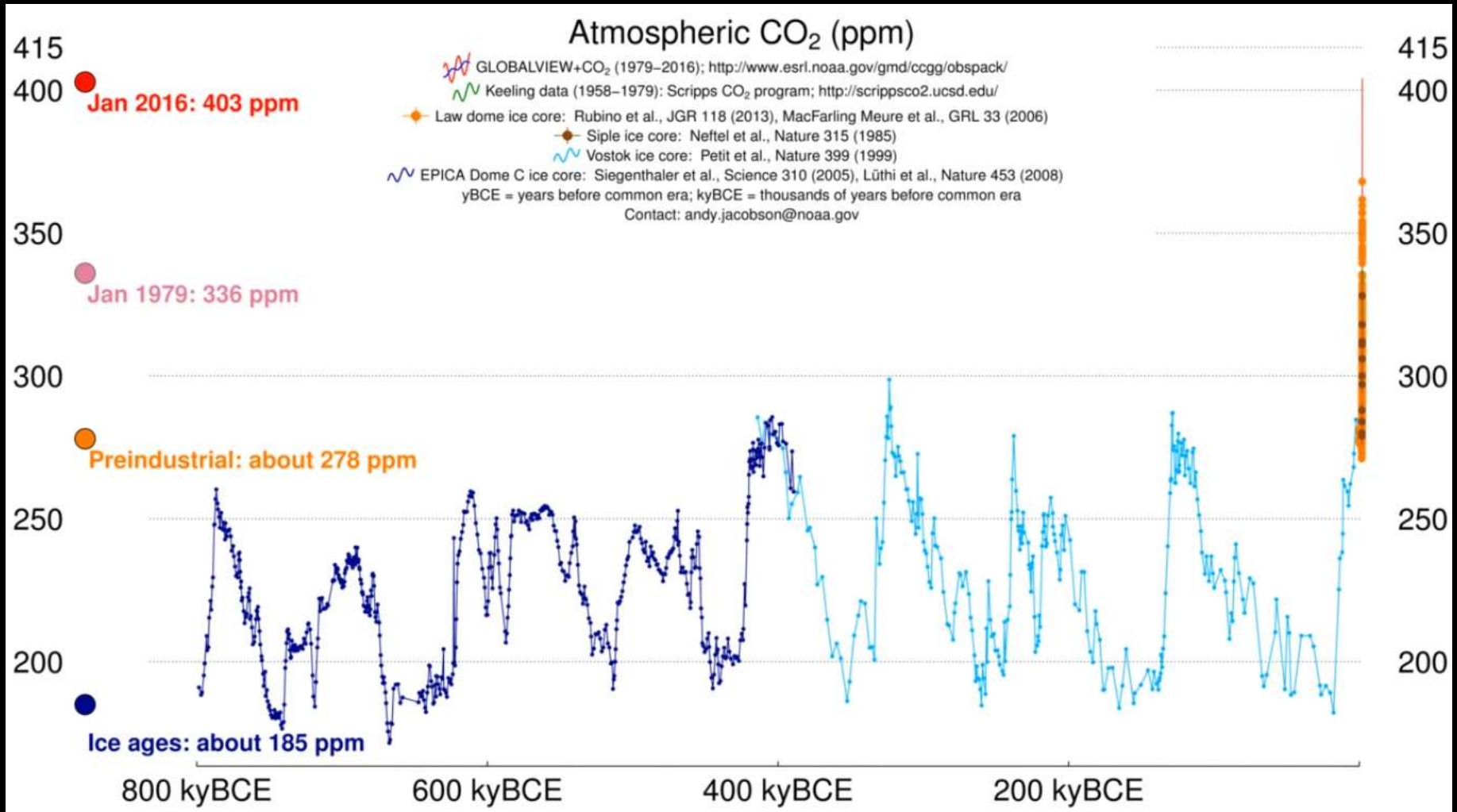
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There are patterns in the data...



There are patterns in the data...

What are the significant ones?



Inside the Experiment: Abrupt Change and Ice Cores

Posted on [March 28, 2018](#) | [Leave a comment](#) | [Edit](#)



Comparing coastal cities...

Miami & Atlantic City, for example



<https://environmentaljusticetv.wordpress.com/2018/03/17/comparing-sea-level-rise-excerpt-from-sea-level-rise-miami-and-atlantic-city-fight-to-stay-above-water-2/>

What about Boston ?
“The City on a Hill...”



What about Boston ?
“The City on a Hill...”
Does “Beacon Hill” see what is
coming?





Austin Blackmon

CHIEF OF ENVIRONMENT FOR CITY OF BOSTON

5:36 73°

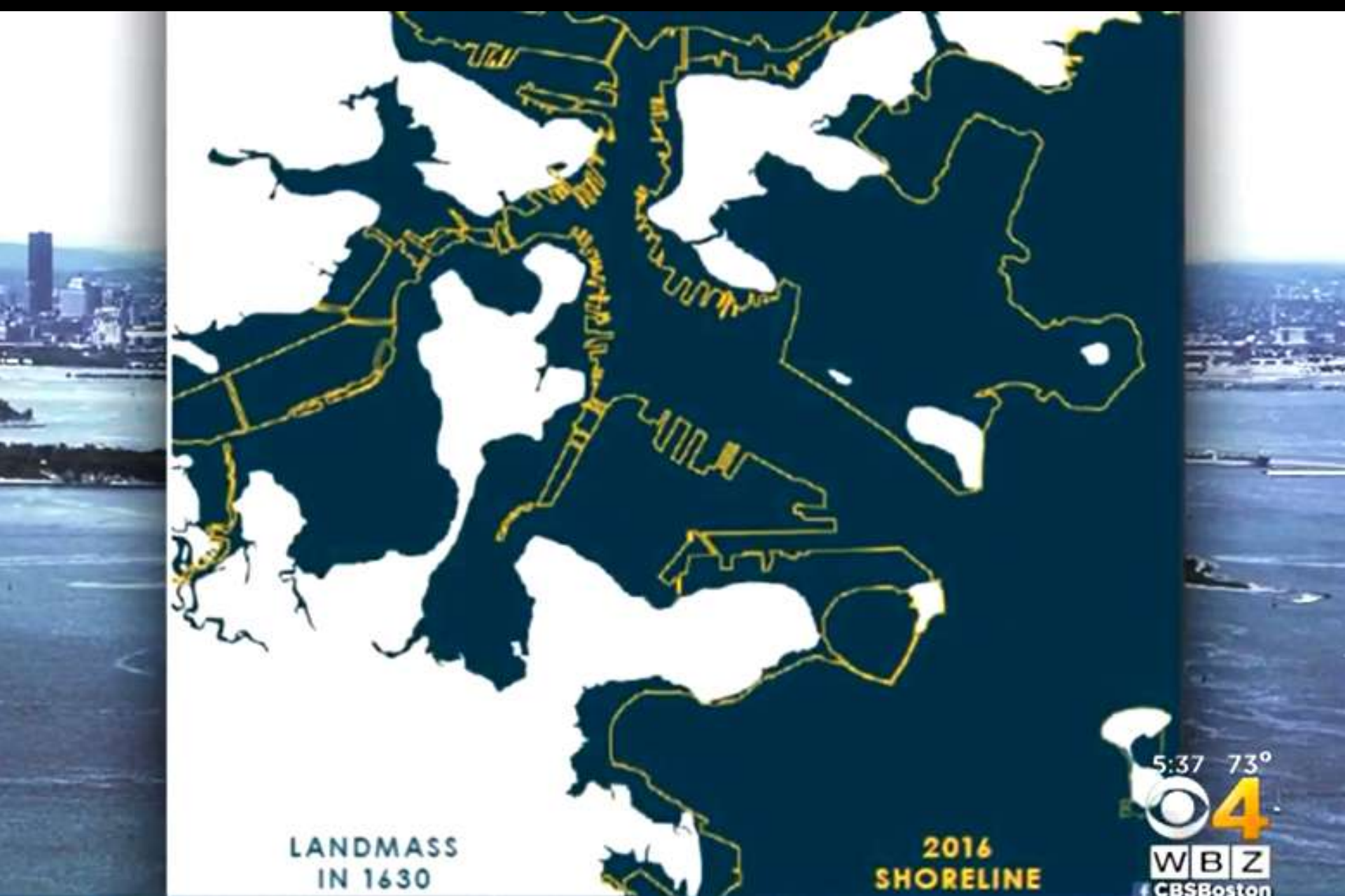


WBZ

#CBSBoston



https://www.youtube.com/watch?v=gVACk4o6KpE&list=PL3TYJ681t33Y9_Sfs1xGdAYzq3yMzELsT



LANDMASS
IN 1630

2016
SHORELINE

5:37 73°
4
WBZ
CBSBoston

Water Resources and the Urban Environment, Lower Charles River Watershed, Massachusetts, 1630–2005, P. Weiskel, et. al.

Posted on [October 13, 2016](#) | [Leave a comment](#) | [Edit](#)



In cooperation with the
U.S. Environmental Protection Agency and the
Massachusetts Department of Environmental Protection

Water Resources and the Urban Environment, Lower Charles River Watershed, Massachusetts, 1630–2005



Circular 1260

U.S. Department of the Interior
U.S. Geological Survey

Water Resources
Lower Charles
1630–2005,

Posted on October 1, 2005

Water Resources and the Urban Environment, Lower Charles River Watershed, Massachusetts, 1630–2005



In cooperation with the
U.S. Environmental Protection Agency
Massachusetts Department of Environmental Protection

Water Resources
Lower Charles
1630–2005



Circular 1280

U.S. Department of the Interior
U.S. Geological Survey

https://www.youtube.com/watch?v=cQ5zz7PSl3c&list=PL3TYJ681t33a5I5i63a97fE8dvYBV_NGj

Whose “future” does this represent?





Tim Logan ✓
@bytimlogan

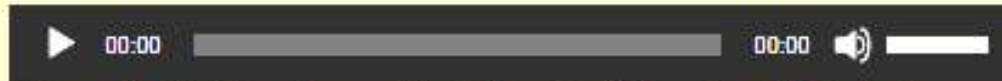
The future world headquarters of General Electric.



<https://www.youtube.com/watch?v=UVyJmN6wHI8&list=PL3TYJ681u33YWPfa84kuoIIdVBEsY8Mjx&index=4>

A Barrier For Boston Harbor: UMass Team Studies Flood-Protection Plans | WBUR News

Posted on [March 28, 2018](#) | [Leave a comment](#) | [Edit](#)



With sea levels rising, a team at the University of Massachusetts Boston is researching harbor barriers to protect the city from flooding.

<https://environmentaljusticetv.wordpress.com/2018/03/28/a-barrier-for-boston-harbor-umass-team-studies-flood-protection-plans-wbur-news/>



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Greater Boston Group (GBG)

Join the Greater Boston Group and Biodiversity for a Livable Climate for a one-day conference on what we can do to conserve, restore and strengthen ecosystems in our region:

Revitalizing Ecosystems in Greater Boston to Survive Climate Change

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