

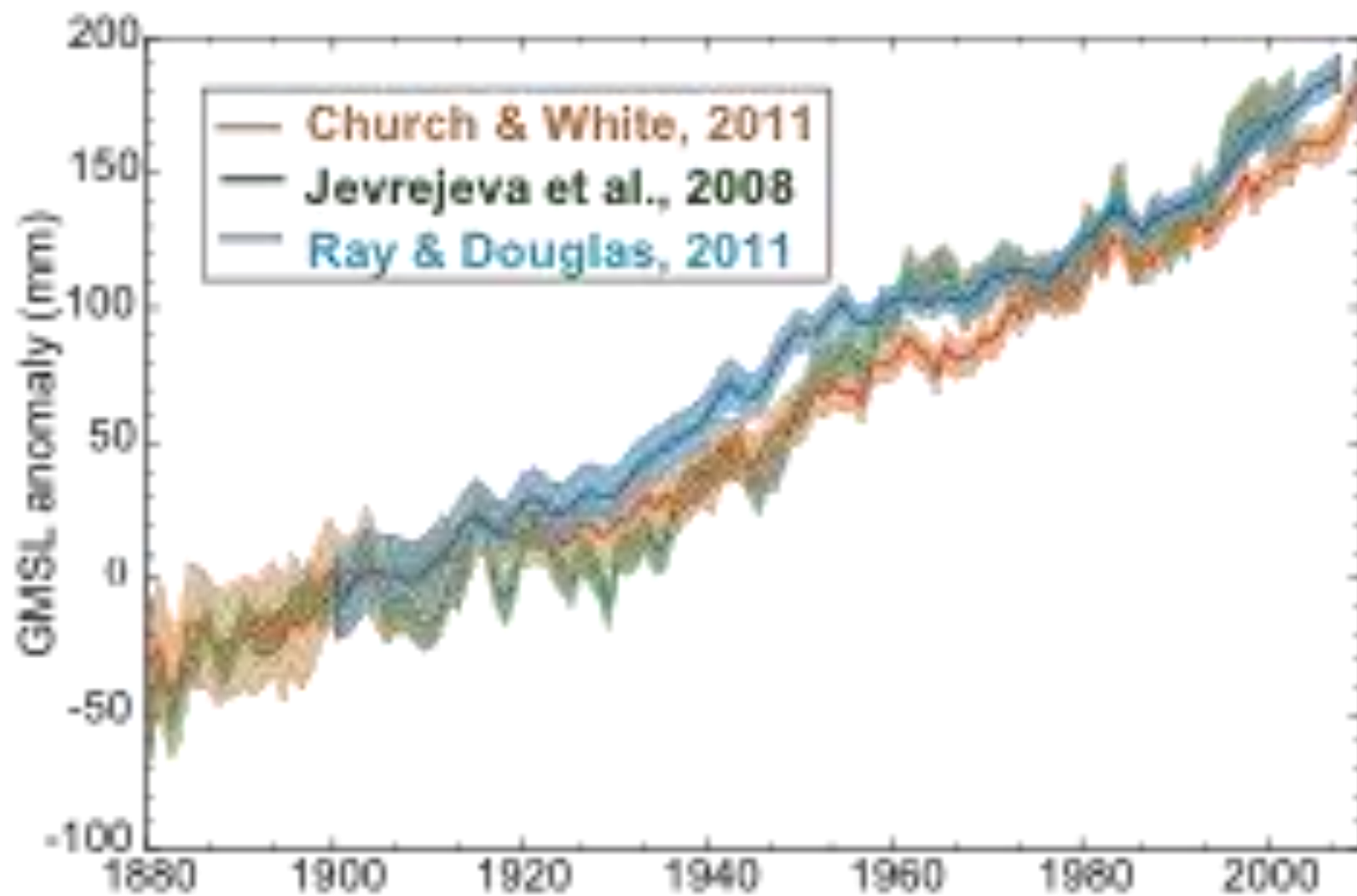
Threats from Sea-Level Rise: Present, Future, Likely and Inevitable



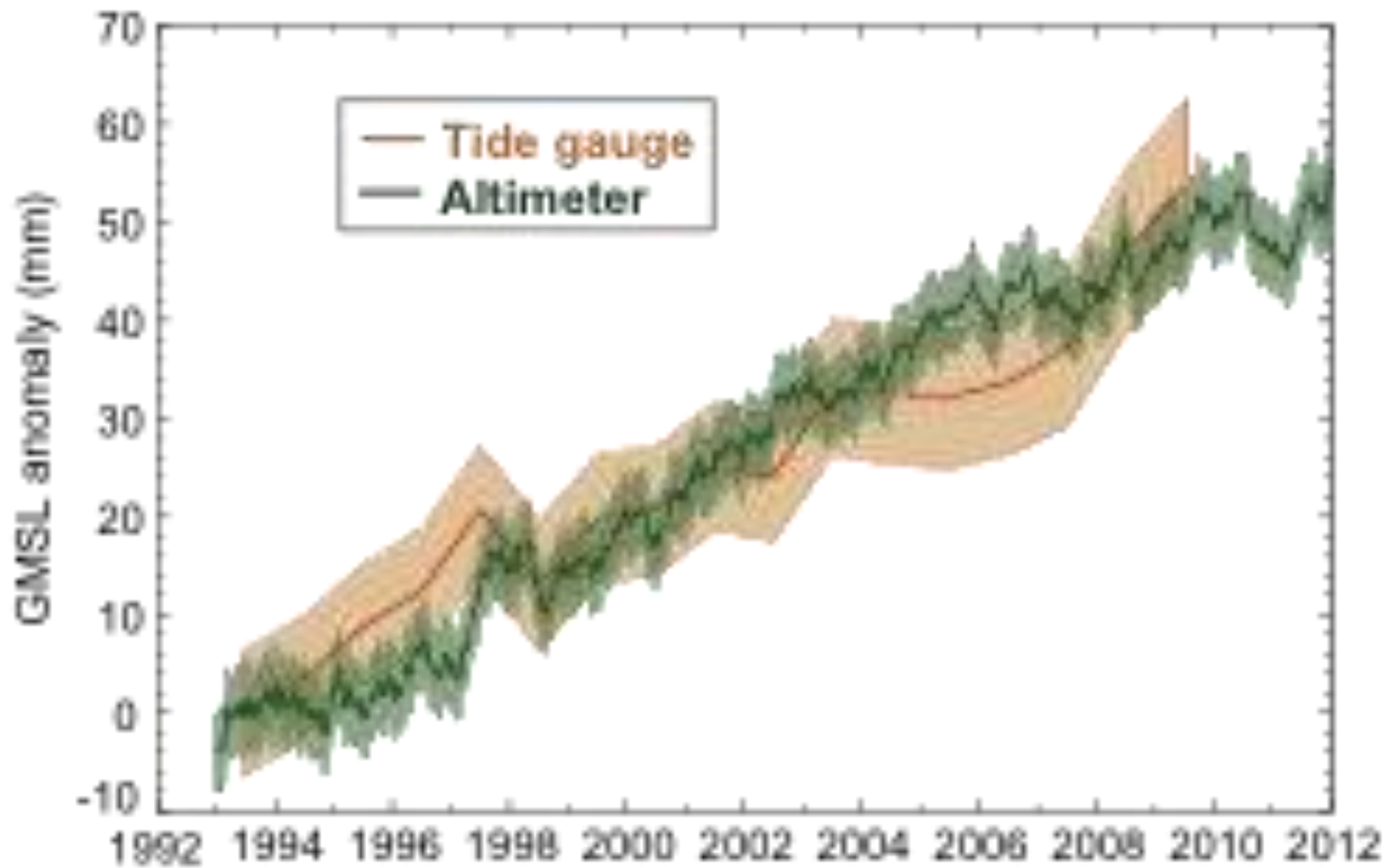
UF Water Institute Symposium
February 11, 2014

Ben Strauss
VP for Climate Impacts and
Director of the Program on Sea Level Rise
Climate Central
sealevel.climatecentral.org

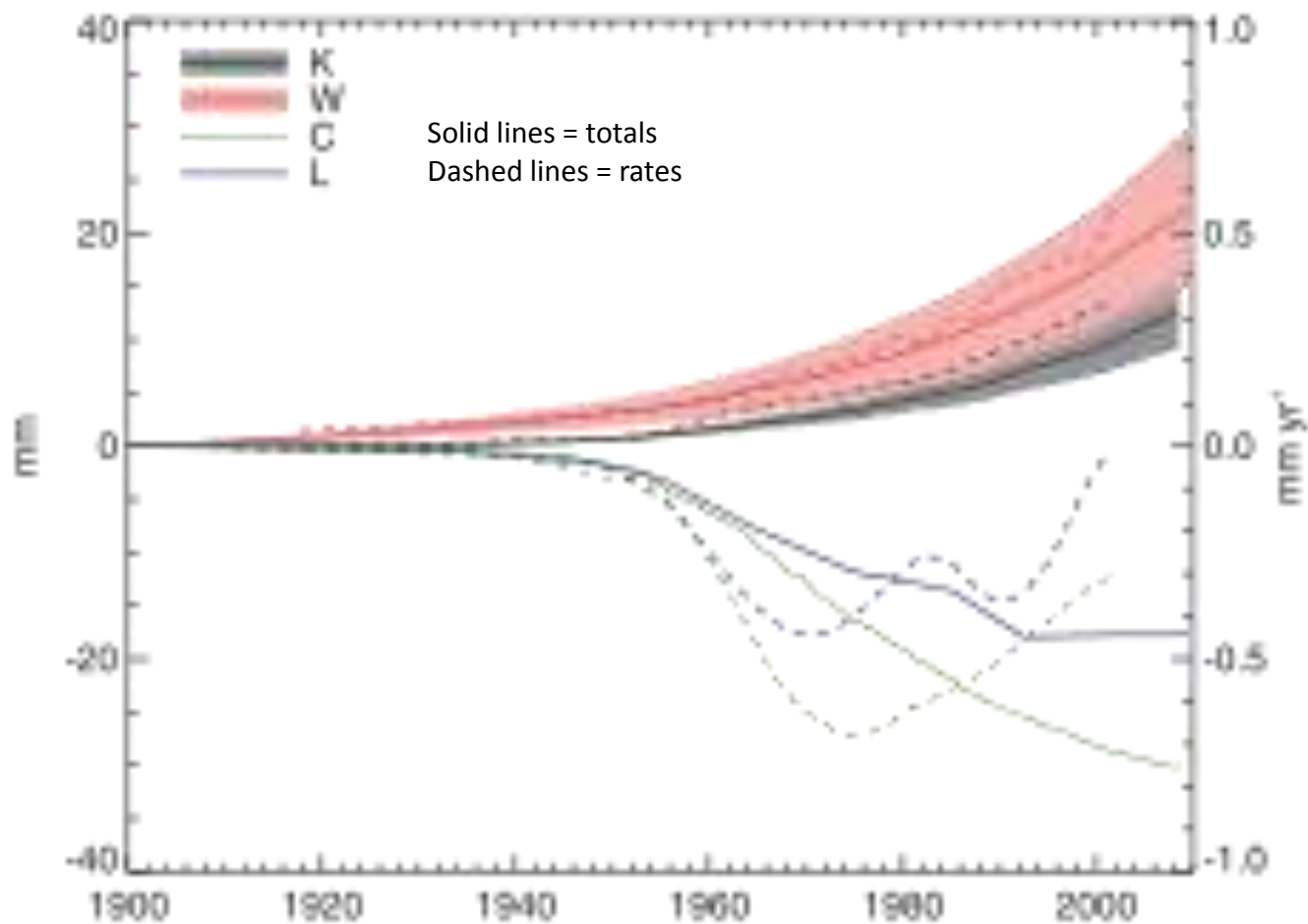
Past



Source: IPCC WG1 AR5 ch. 3 (Rhein et al 2013)



Source: IPCC WG1 AR5 ch. 3 (Rhein et al 2013)

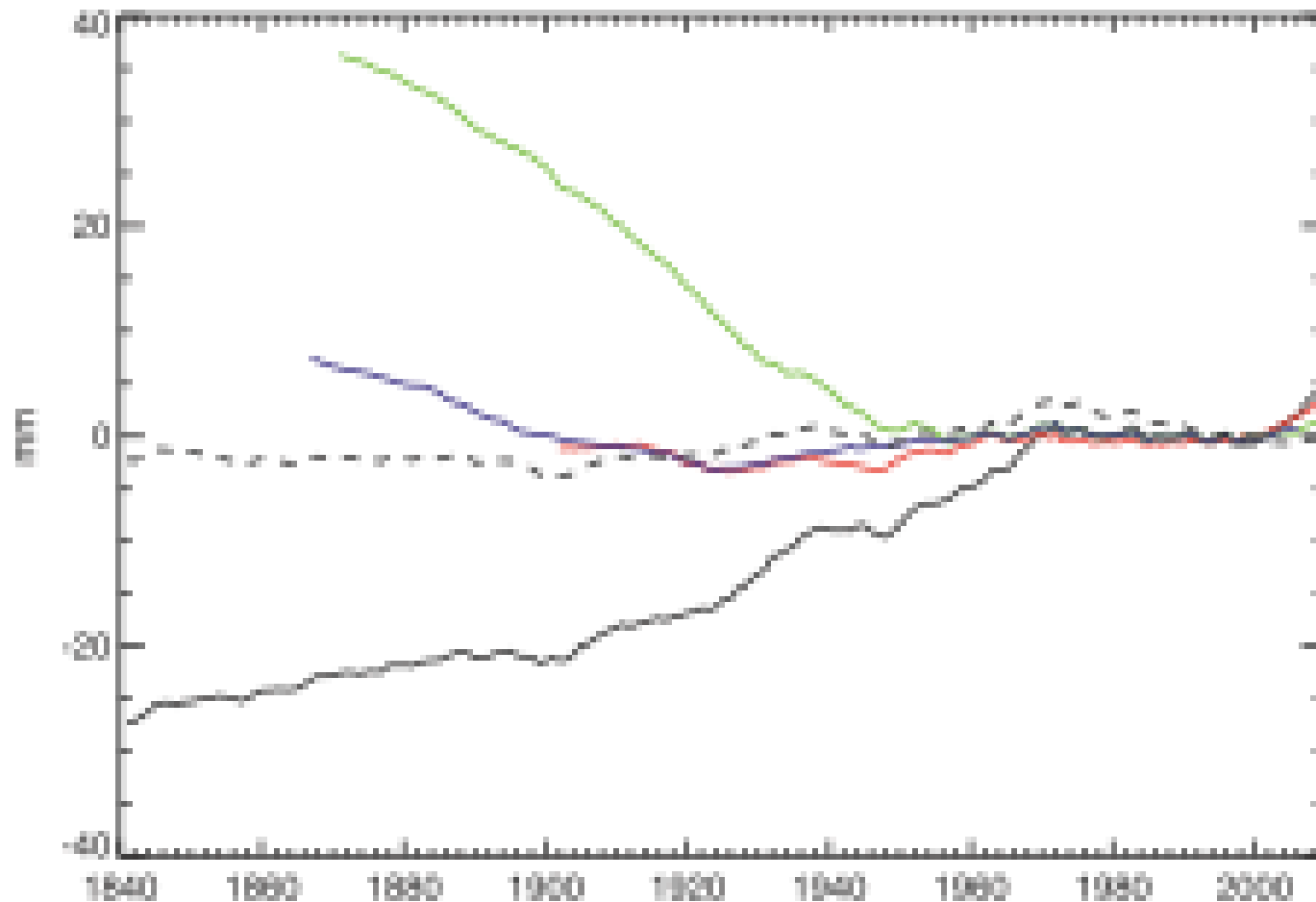


Groundwater
depletion

Reservoir
impoundment

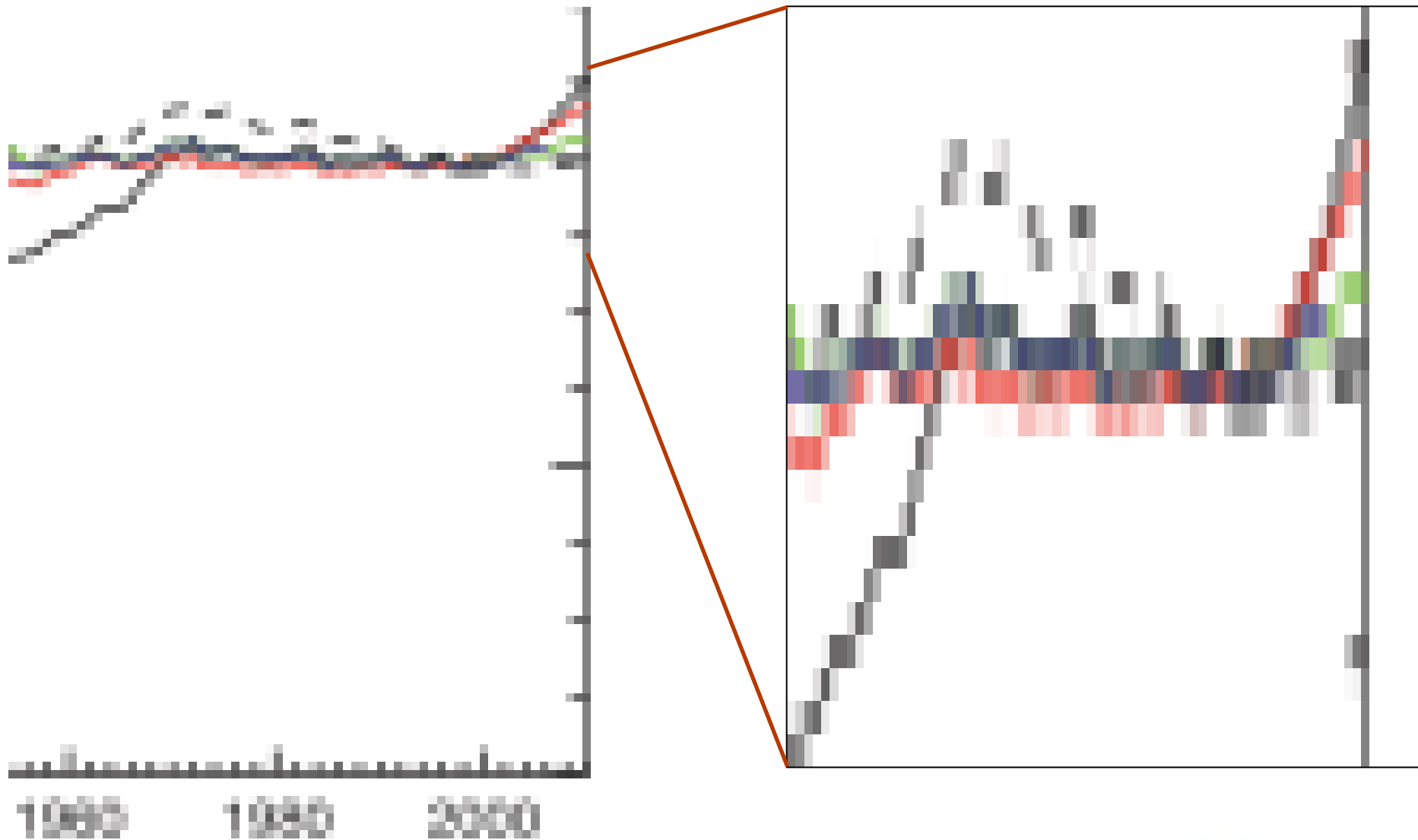
Source: after Gregory et al 2013, Journal of Climate

GIS contribution to SLR - Total



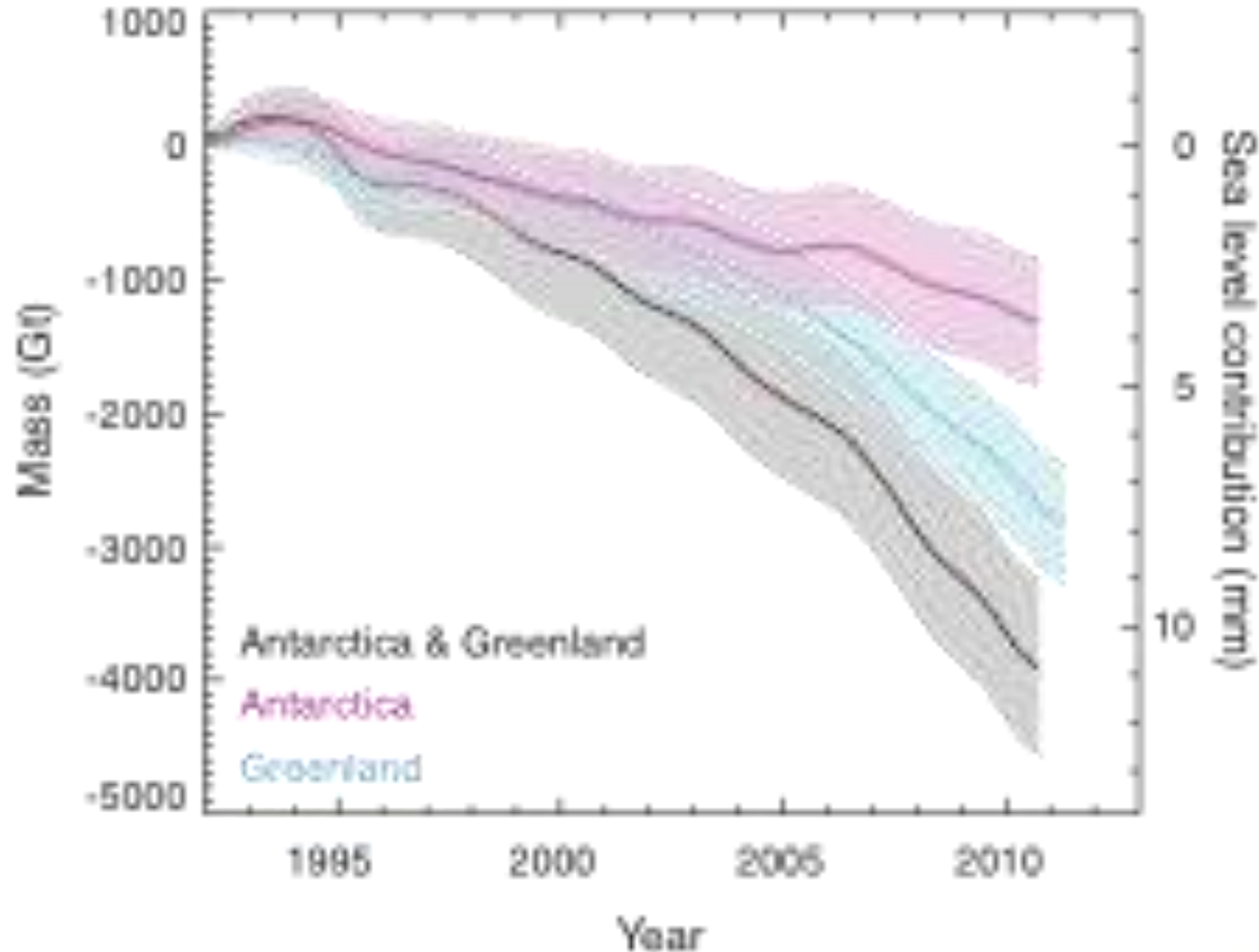
Source: after Gregory et al 2013, Journal of Climate

GIS contribution to SLR - Total



Source: after Gregory et al 2013, Journal of Climate

Reconciled ice sheet mass balance



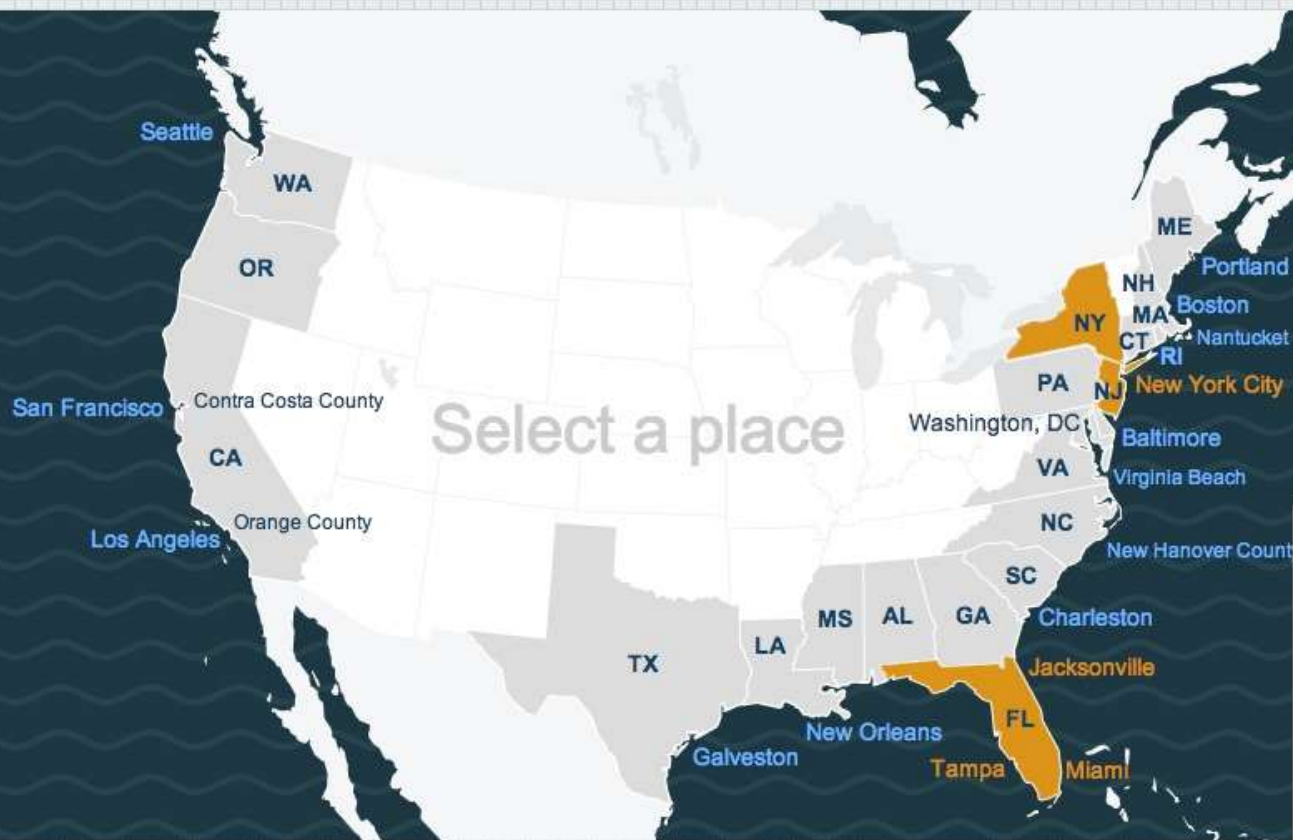
Source: Shepherd et al 2012, Science

Present

Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

🏠 Risk Finder Maps Basics Research Responses News



About the Map

Map pages show threats from sea level rise and storm surge to all 3000+ coastal towns, cities, counties and states in the Lower 48. Click on a label to get started, or type a zip or name in the search box below. More about the map.

Orange features link to expanded next-generation maps and analysis, in the Surging Seas Risk Finder.

📍 Click any location from the map above, or search by zip

🔍 Search by City, State or Zip

Major Expansion of Surging Seas Launched

[Learn More >](#)

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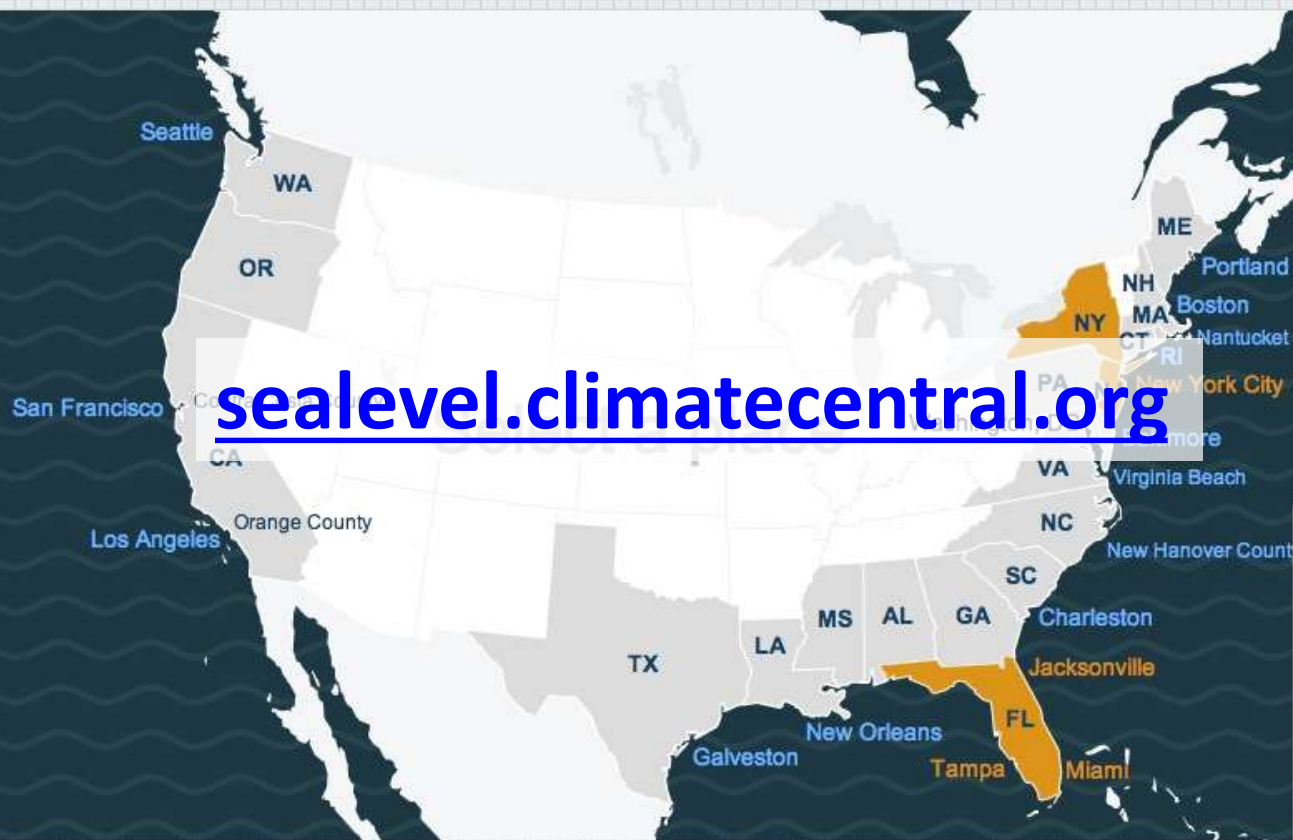
THE FACTS ABOUT SEA LEVEL RISE



Surging Seas

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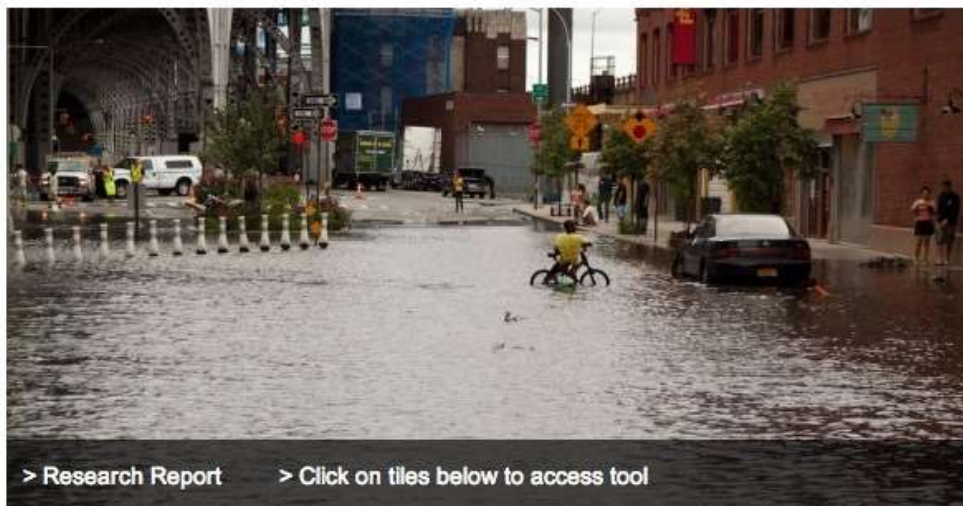
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[Jump to Another State](#) ▼

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NYS 2100 Commission: Recommendations to Improve the Strength and Resilience of the Empire State's Infrastructure

NYS: New York Rising Community Reconstruction Program

NYSERDA: Response to Climate Change in New York State

Scenic Hudson: Sea Level Rise Mapper

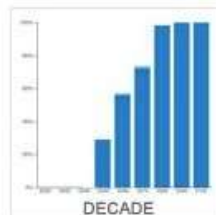
NOAA: Sea Level Rise, Coastal Flooding Impacts Viewer

WHERE



Place name or zip

WHEN



Place name or zip

WHAT



Place name or zip

COMPARE



Category ▼

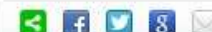
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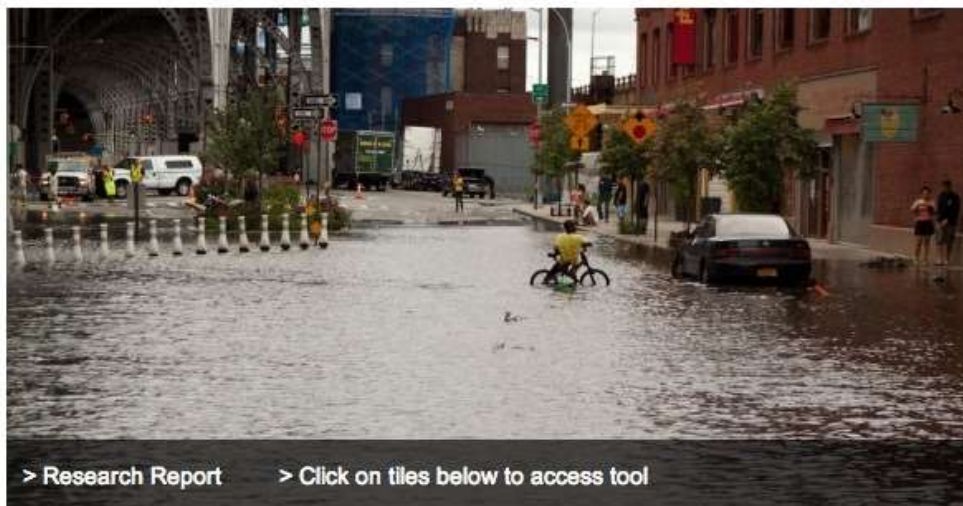
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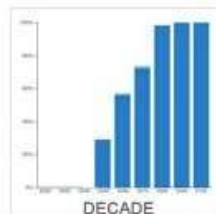
NOAA: Sea Level Rise, Coastal Flooding Impacts Viewer

WHERE

Searchable
interactive
map

Place name or zip

WHEN



Place name or zip

WHAT



Place name or zip

COMPARE



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Sea level rise analysis by CLIMATE CENTRAL

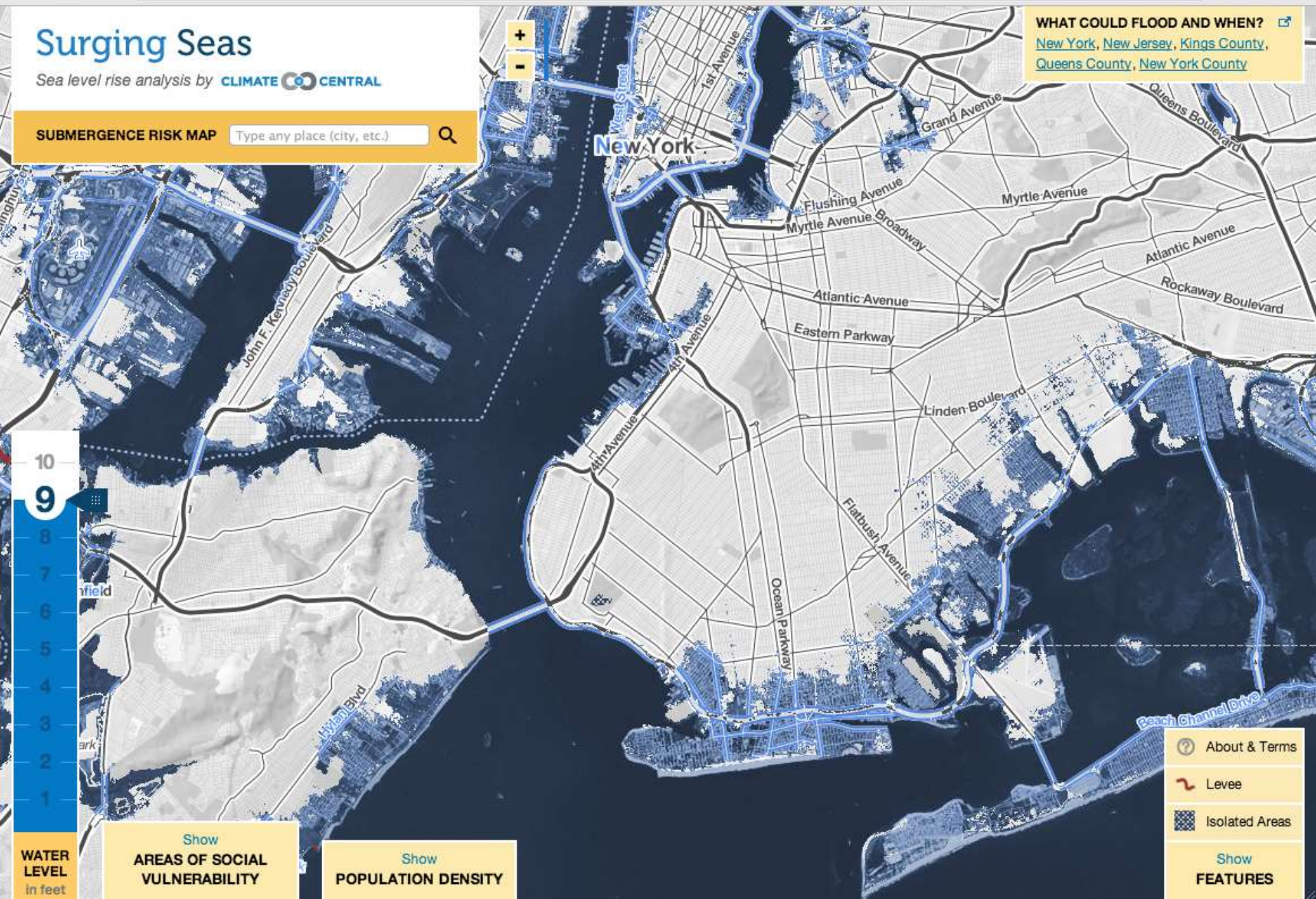
SUBMERGENCE RISK MAP

Type any place (city, etc.)



WHAT COULD FLOOD AND WHEN?

[New York](#), [New Jersey](#), [Kings County](#),
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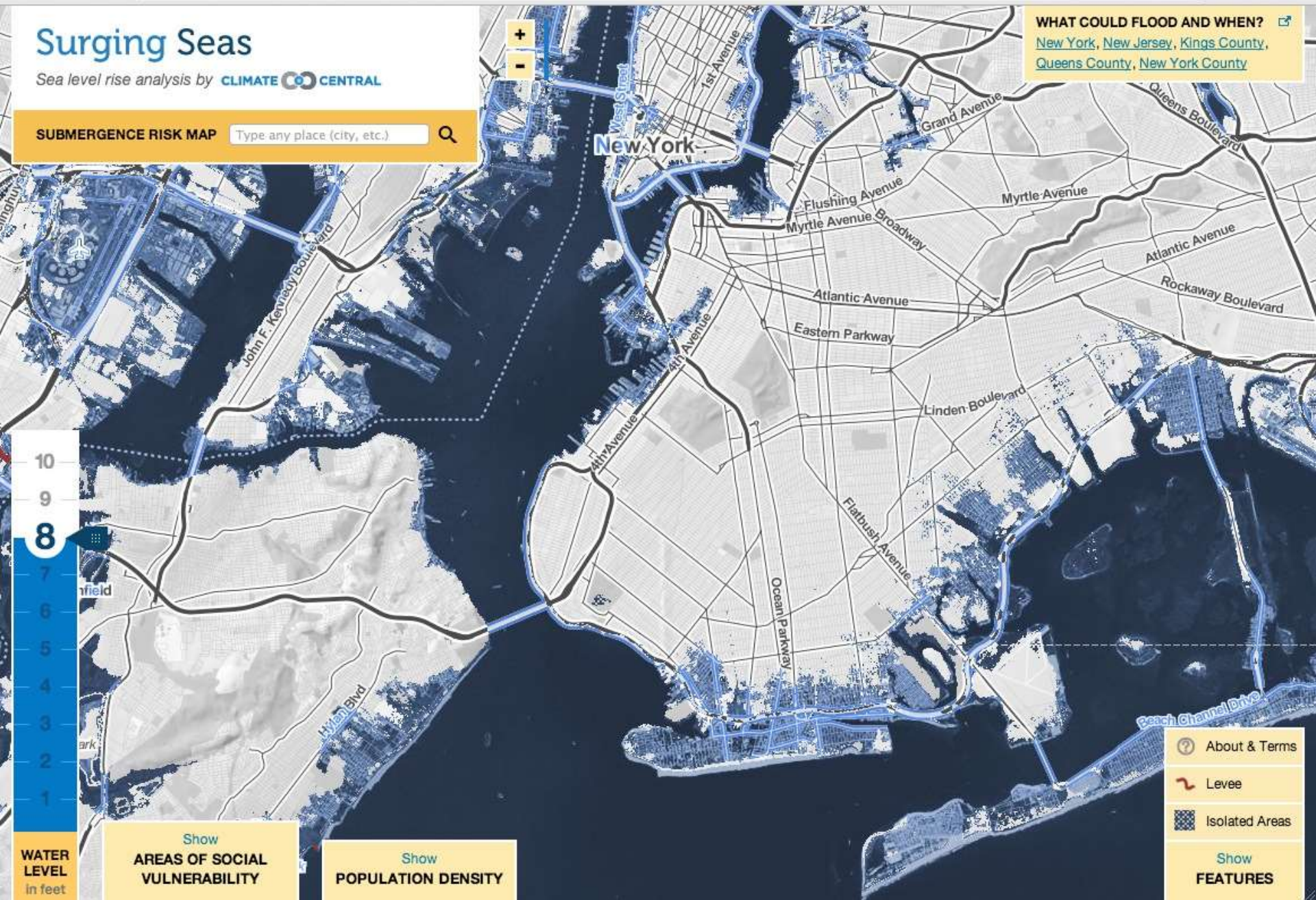
SUBMERGENCE RISK MAP

Type any place (city, etc.)



WHAT COULD FLOOD AND WHEN?

[New York, New Jersey, Kings County,](#)
[Queens County, New York County](#)



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WATER
LEVEL
in feet

Show
AREAS OF SOCIAL
VULNERABILITY

Show
POPULATION DENSITY

🔗 About & Terms

📏 Levee

🏠 Isolated Areas

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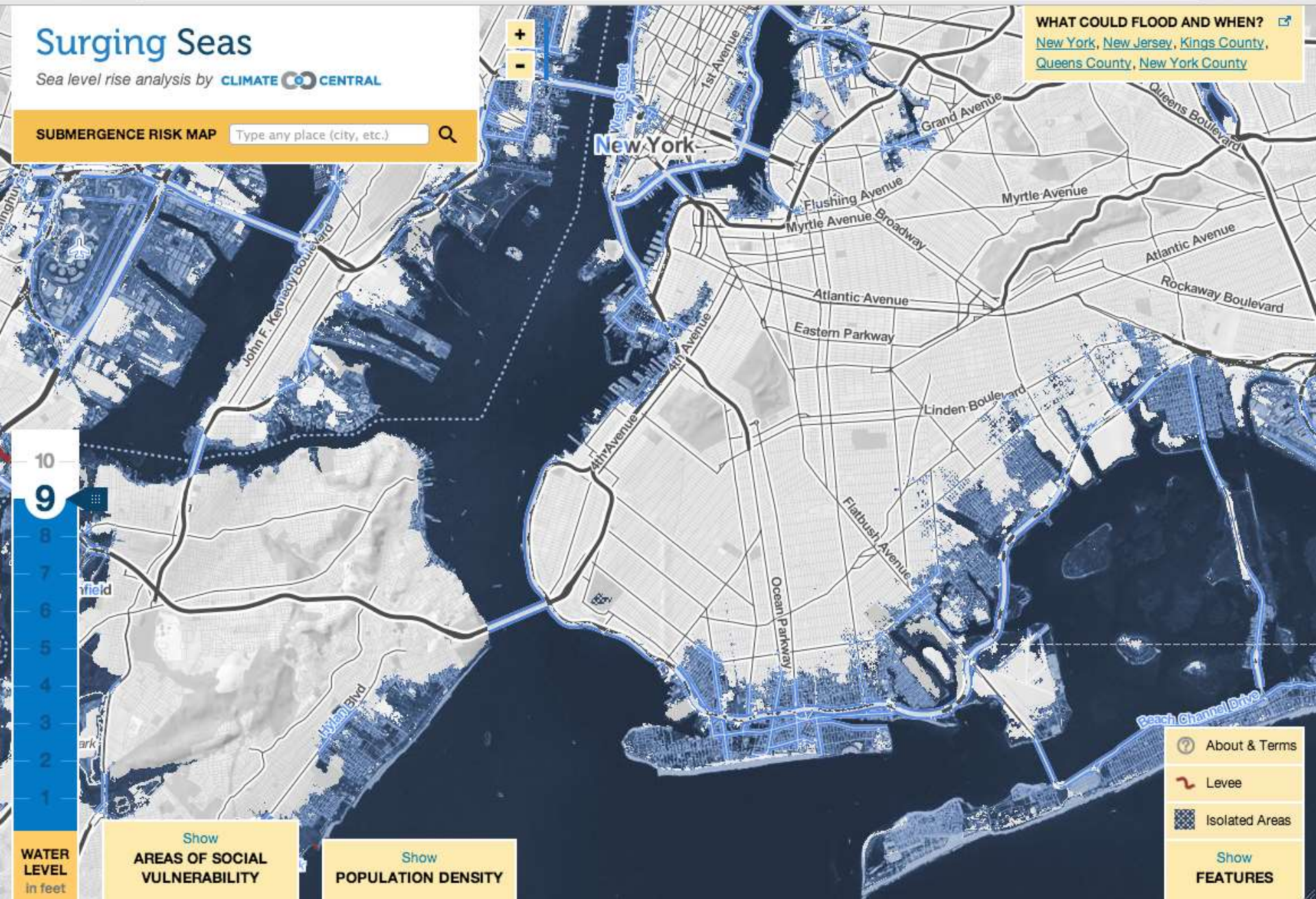
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Type any place (city, etc.)



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About & Terms

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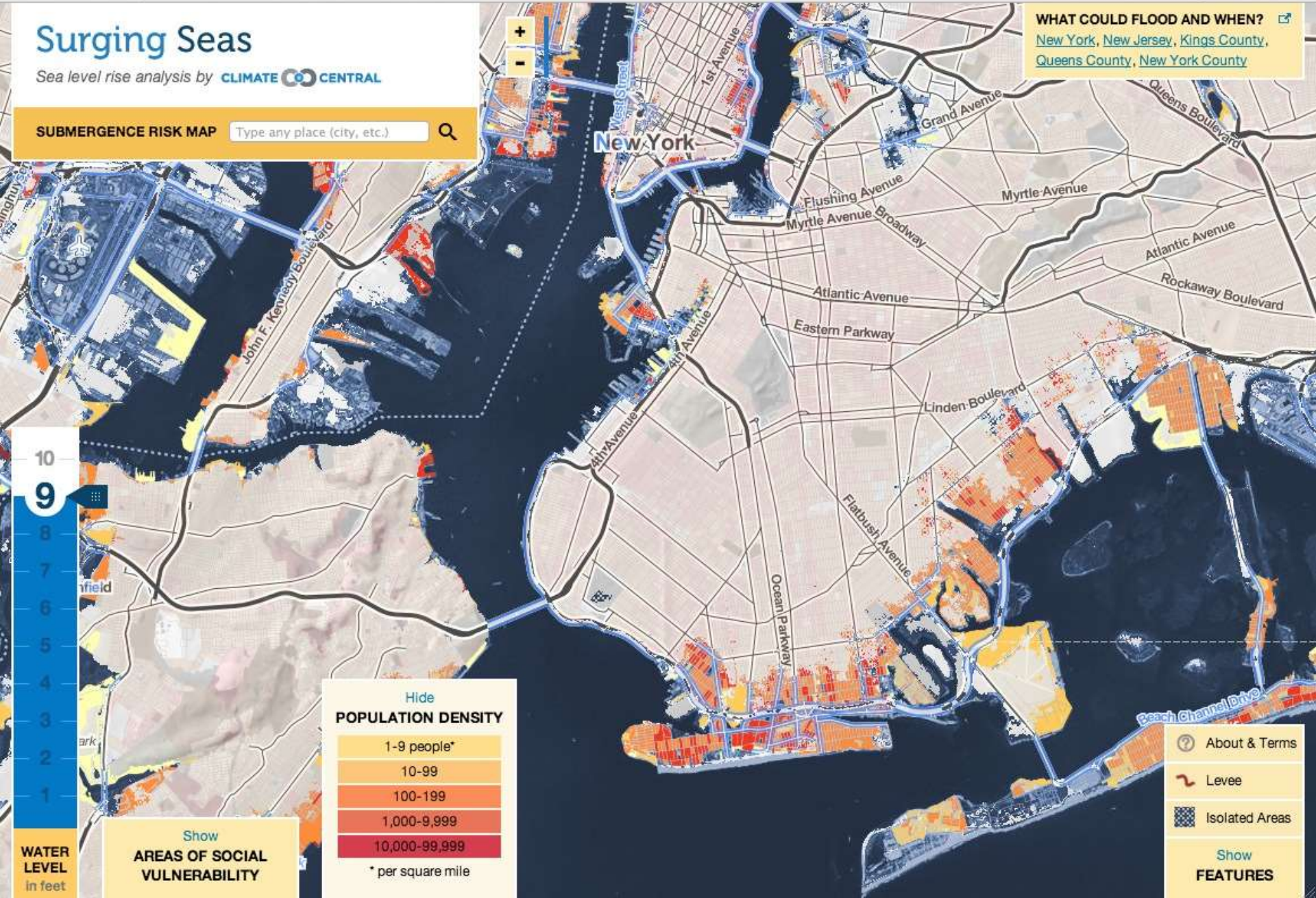
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SUBMERGENCE RISK MAP

WHAT COULD FLOOD AND WHEN?
[New York, New Jersey, Kings County,](#)
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Hide
POPULATION DENSITY

1-9 people*
10-99
100-199
1,000-9,999
10,000-99,999

* per square mile

Show
AREAS OF SOCIAL VULNERABILITY

About & Terms

Levee

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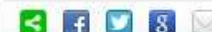
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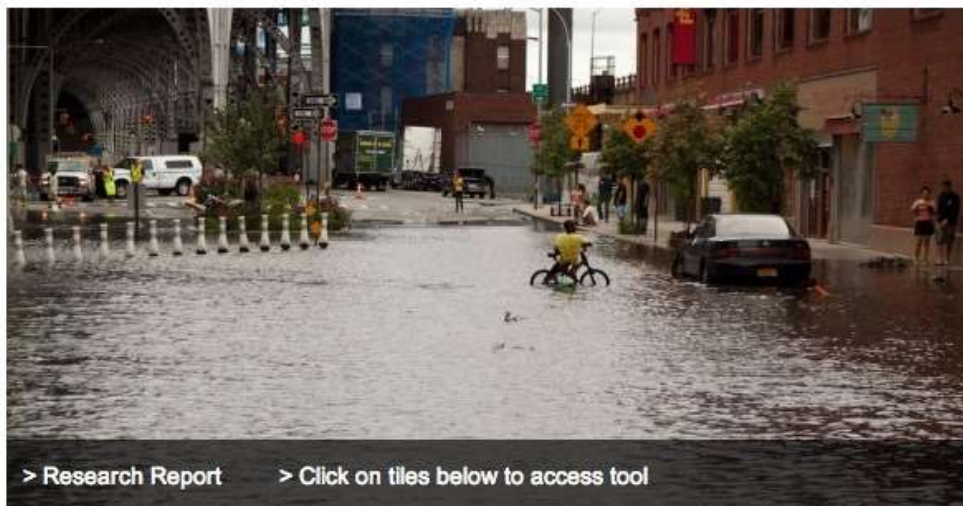
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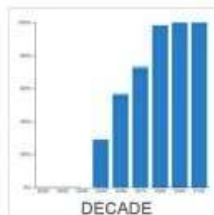
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WHERE



Place name or zip

WHEN



Place name or zip

WHAT

Tailored
community
impact
analyses

Place name or zip

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City et



Sea level rise and coastal flood risk for New York, New York

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WATER LEVEL

From combined sea level rise, storm surge, and tide (any year)

LOCATION

New York

Population: 8,175,083



Show at-risk Area Map

Full screen map »

IMPACT TYPE

- Socioeconomy
- Population
- + Buildings
- + Infrastructure
- + Contamination Risks
- Land
- Coming Additions
- All

WHAT COULD SUBMERGE

ALL

MORE

New York exposure on land below 5 feet.

Percent | Total

High social vulnerability population

303,253 people below 9 feet

Medium social vulnerability population

202,723 people below 9 feet

Low social vulnerability population

130,380 people below 9 feet

Property value

84,215 value (\$M) below 9 feet

Population

638,832 people below 9 feet

Caucasian population

343,971 people below 9 feet

Population of color

307,213 people below 9 feet

African-American population

181,795 people below 9 feet

Asian population

65,739 people below 9 feet

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Feet above local high tide
Risk by decade »

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Sea level rise analysis by CLIMATE CENTRAL

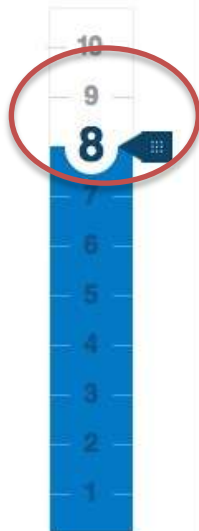


Type Any Place (City et



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)



Feet above
local high tide

Risk by decade »

LOCATION

New York

Population: 8,175,083



Show at-risk Area Map

Full screen map »

IMPACT TYPE

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+ Infrastructure

+ Contamination Risks

Land

Coming Additions

All

Sea level rise and coastal flood risk for New York, New York

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

ALL

New York exposure on land below 5 feet.

Percent | Total

High social
vulnerability
population

248,595 people
below 8 feet

Medium social
vulnerability
population

169,171 people
below 8 feet

Low social
vulnerability
population

106,927 people
below 8 feet

Property value

70,904 value (\$M)
below 8 feet

Population

526,273 people
below 8 feet

Caucasian population

286,373 people
below 8 feet

Population of color

249,944 people
below 8 feet

African-American
population

148,920 people
below 8 feet

Asian population

53,155 people
below 8 feet

MORE

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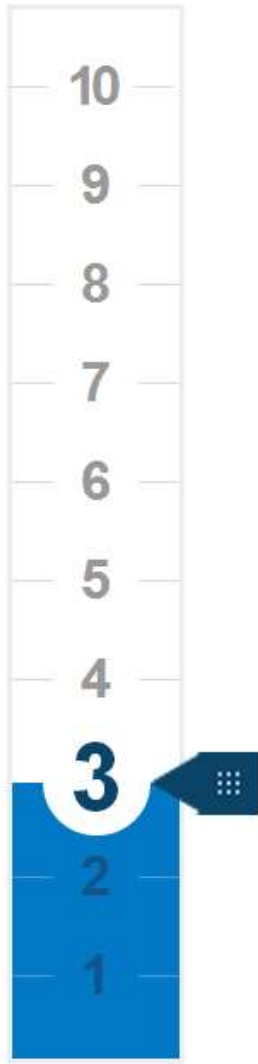
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The Difference 8 Inches Make: NYC

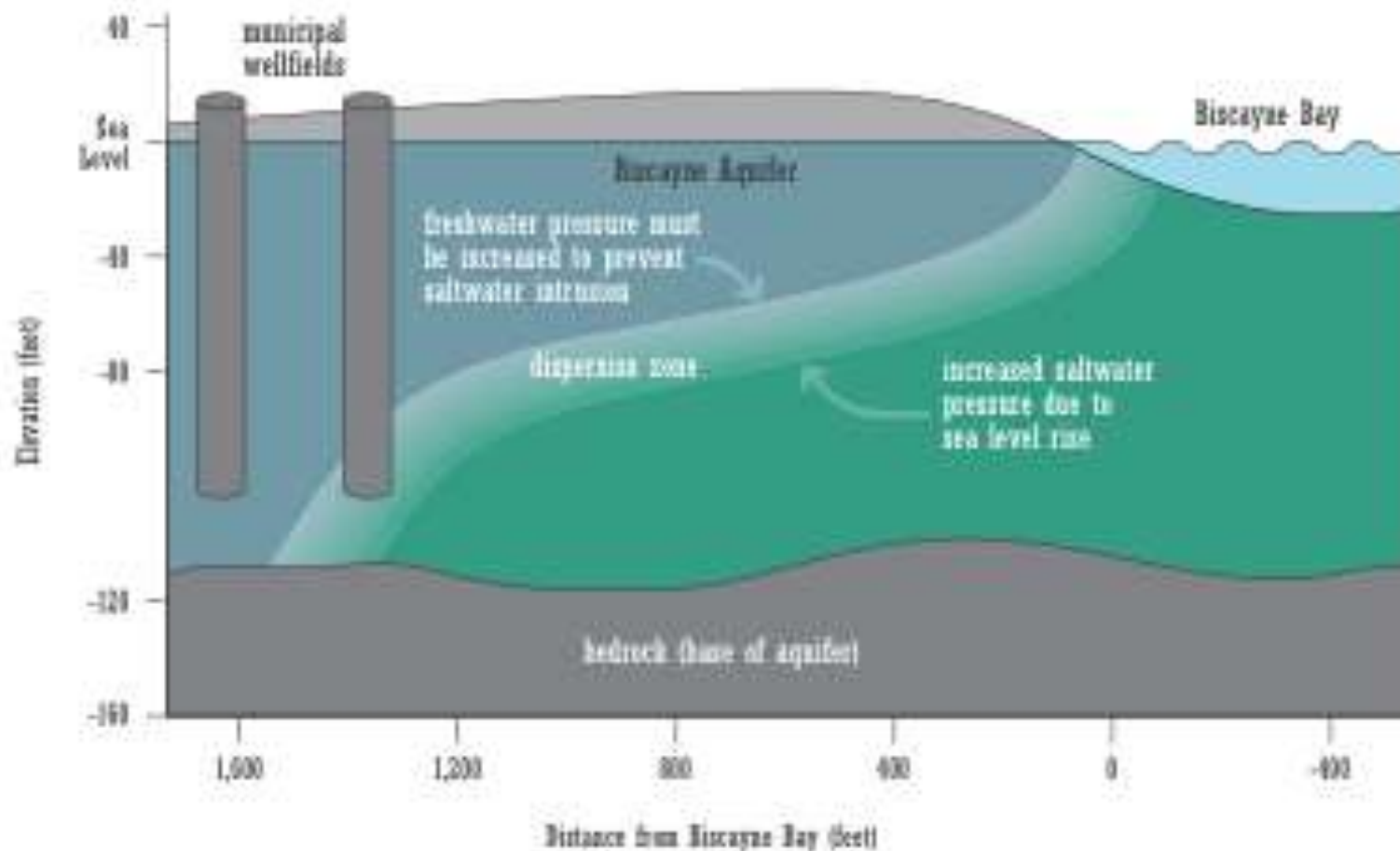


- Land area: 13 km²
- Population: 75,000
- Property value: \$8.9 Billion

Values estimated as 2/3 of the differences across 9-8 ft



Figure 4. Salt Water Intrusion



As sea level rises, the pressure of saltwater on the dispersion zone increases, pushing saltwater further into the aquifer.





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NEW YORK
✈ SAN FRANCISCO

FROM ONLY
\$179

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EACH WAY
RESTRICTIONS APPLY


South Florida drinking water faces saltwater threat

Climate change could increase 'saltwater intrusion'


September 12, 2011 | By Andy Reid, Sun Sentinel


Summer rains can't wash away a growing underground threat to South Florida's water supply.


Saltwater seeping in from the ocean keeps spreading farther west, threatening to foul underground freshwater supplies that provide most of South Florida's drinking water.


 Recommend


17













3

2

 Tweet

Submit

 +1

Six of the eight wells that Hallandale Beach relies on have been closed through the years due to saltwater intrusion.

That's because 85 percent of the city is within the area where saltwater has seeped in, Castro said. As a result, the city pays to get half of its water from Broward County's western well fields and is working on a deal for new western wells of its own.

Hallandale Beach proposes building six new wells and new water lines in West Park for about \$10 million. Operating them over 40 years would cost about \$36 million, Castro said.



Credit: USDA



“Sometimes we cannot open the gates because if you open it, the water would come back” – Jayantha Obeysekera, SFWMD

NANCY BATCHELOR Team



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Miami Beach Luxury Real Estate
From Modern to Mediterranean

ROLLOVER FOR INFO

Posted on Tuesday, 09.04.12

A A

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ENVIRONMENT

Rising sea comes at a cost for South Florida cities

f Like 17

A proposed \$206 million overhaul of Miami Beach's antiquated drainage system is just the first of many big-ticket bills South Florida faces.

MIAMI BEACH'S PLAN The city of Miami Beach has posted presentations and a video of an August meeting on its storm water management plan can be found [here](#).



BY CURTIS MORGAN
CMORGAN@MIAMIHERALD.COM

Climate change may be the subject of debate in some places but in South Florida it's become a costly reality.

In Miami Beach, where prolonged flooding in low-lying neighborhoods has become the norm after

heavy storms, city leaders are weighing a \$206 million overhaul of an antiquated drainage system increasingly compromised by rising sea level.

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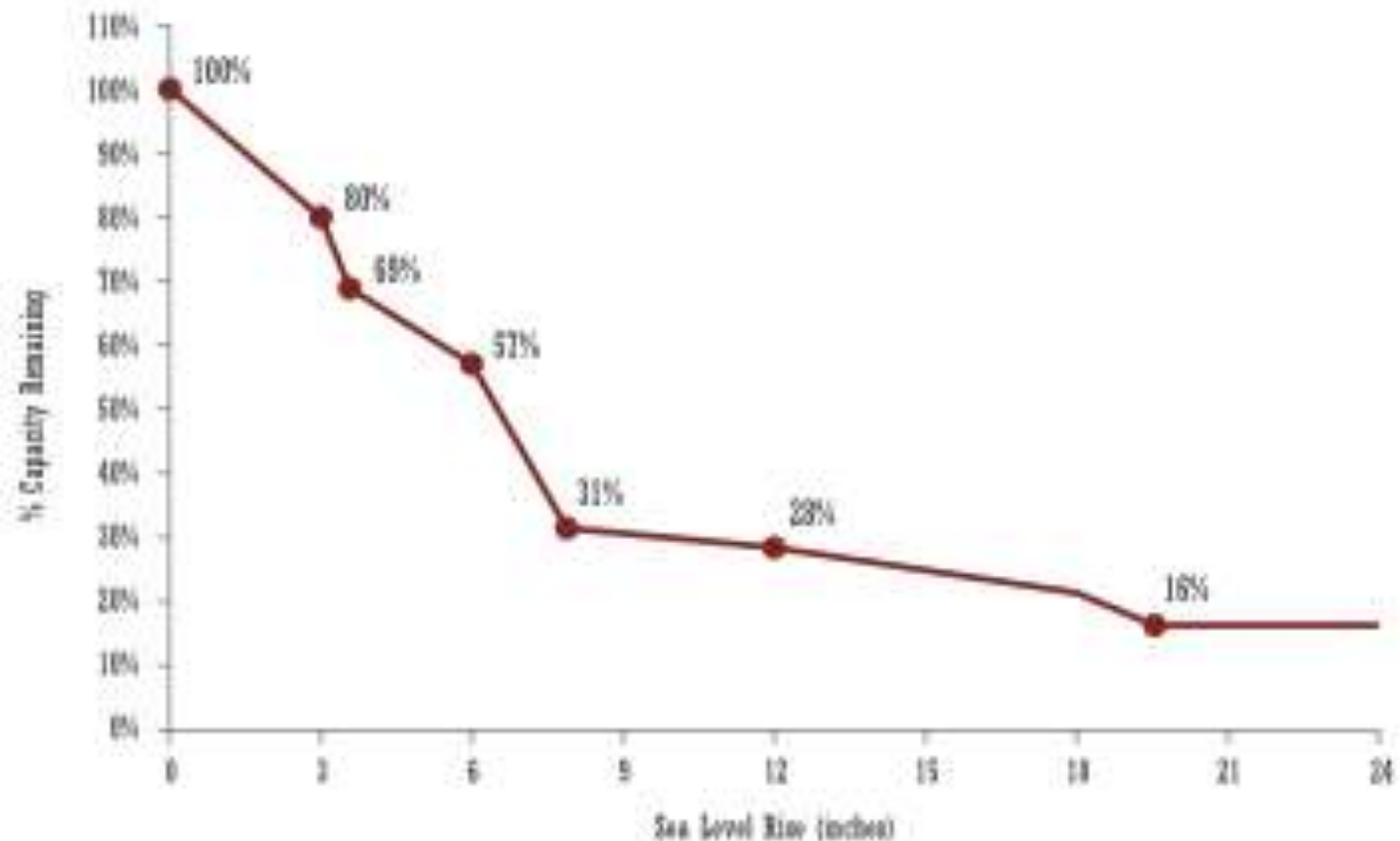
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Future

Figure 6. Coastal Control Structures – % Capacity Remaining vs. Sea Level Rise



Sea level rise will reduce the capacity of flood control structures in Southeast Florida's stormwater drainage canals.

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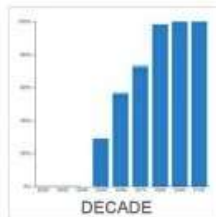
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WHERE



Place name or zip

WHEN



Place name or zip

WHAT



Place name or zip

COMPARE



Category ▼

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[The Southeast Florida Regional Partnership \(SFRP\)](#)

[Broward County: Climate Change Action Plan](#)

[Miami-Dade County: Miami-Dade Greenprint](#)

[Florida Department of Economic Opportunity: State of Florida Community Resiliency Project](#)

[The Florida Center for Environmental Studies \(CES\)](#)

[Florida Sea Grant](#)

[Florida Division of Emergency Management](#)

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Type Any Place (City et



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

10

9

8

7

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2

1

Feet above
local high tide

Risk by decade »

LOCATION

Miami

Population: 399,457

[Show at-risk Area Map](#)[Full screen map »](#)

IMPACT TYPE

Socioeconomy

Population

+ Buildings

+ Infrastructure

+ Contamination Risks

Land

Coming Additions

All

Sea level rise and coastal flood risk for Miami, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

ALL

MORE

Miami exposed socioeconomy on land below 5 feet.

[Percent](#) | [Total](#)

High social
vulnerability
population

539 people
below 1 feet

Medium social
vulnerability
population

78 people
below 1 feet

Low social
vulnerability
population

361 people
below 1 feet

Property value

550 value (\$M)
below 1 feet

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WHAT COULD SUBMERGE

ALL

Miami exposed socioeconomic on land below 5 feet.

Percent | Total

High social
vulnerability
population

1,405 people
below 2 feet

Medium social
vulnerability
population

1,039 people
below 2 feet

Low social
vulnerability
population

1,695 people
below 2 feet

Property value

1,398 value (\$M)
below 2 feet

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Coming Additions

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Sea level rise and coastal flood risk for Miami, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

ALL

Miami exposed socioeconomic on land below 5 feet.

Percent | Total

High social
vulnerability
population



10,238 people
below 3 feet

Medium social
vulnerability
population



4,051 people
below 3 feet

Low social
vulnerability
population



5,615 people
below 3 feet

Property value



3,984 value (\$M)
below 3 feet

MORE

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Coming Additions

All

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CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

ALL

MORE

Miami exposed socioeconomicity on land below 5 feet.

[Percent](#) | [Total](#)

High social
vulnerability
population



31,087 people
below 4 feet

Medium social
vulnerability
population



6,789 people
below 4 feet

Low social
vulnerability
population



10,205 people
below 4 feet

Property value



8,159 value (\$M)
below 4 feet

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local high tide

Risk by decade »

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Population

+ Buildings

+ Infrastructure

+ Contamination Risks

Land

Coming Additions

All

Sea level rise and coastal flood risk for Miami, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

LAND

Miami exposed land on land below 5 feet.

[Percent](#) | [Total](#)

Land



409 acres
below 1 foot

MORE

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City et



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

10

9

8

7

6

5

4

3

2

1

Feet above
local high tide

Risk by decade »

LOCATION

Miami

Population: 399,457

[Show at-risk Area Map](#)[Full screen map »](#)

IMPACT TYPE

Socioeconomy

Population

+ Buildings

+ Infrastructure

+ Contamination Risks

Land

Coming Additions

All

Sea level rise and coastal flood risk for Miami, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

LAND

MORE

Miami exposed land on land below 5 feet.

[Percent](#) | [Total](#)

Land



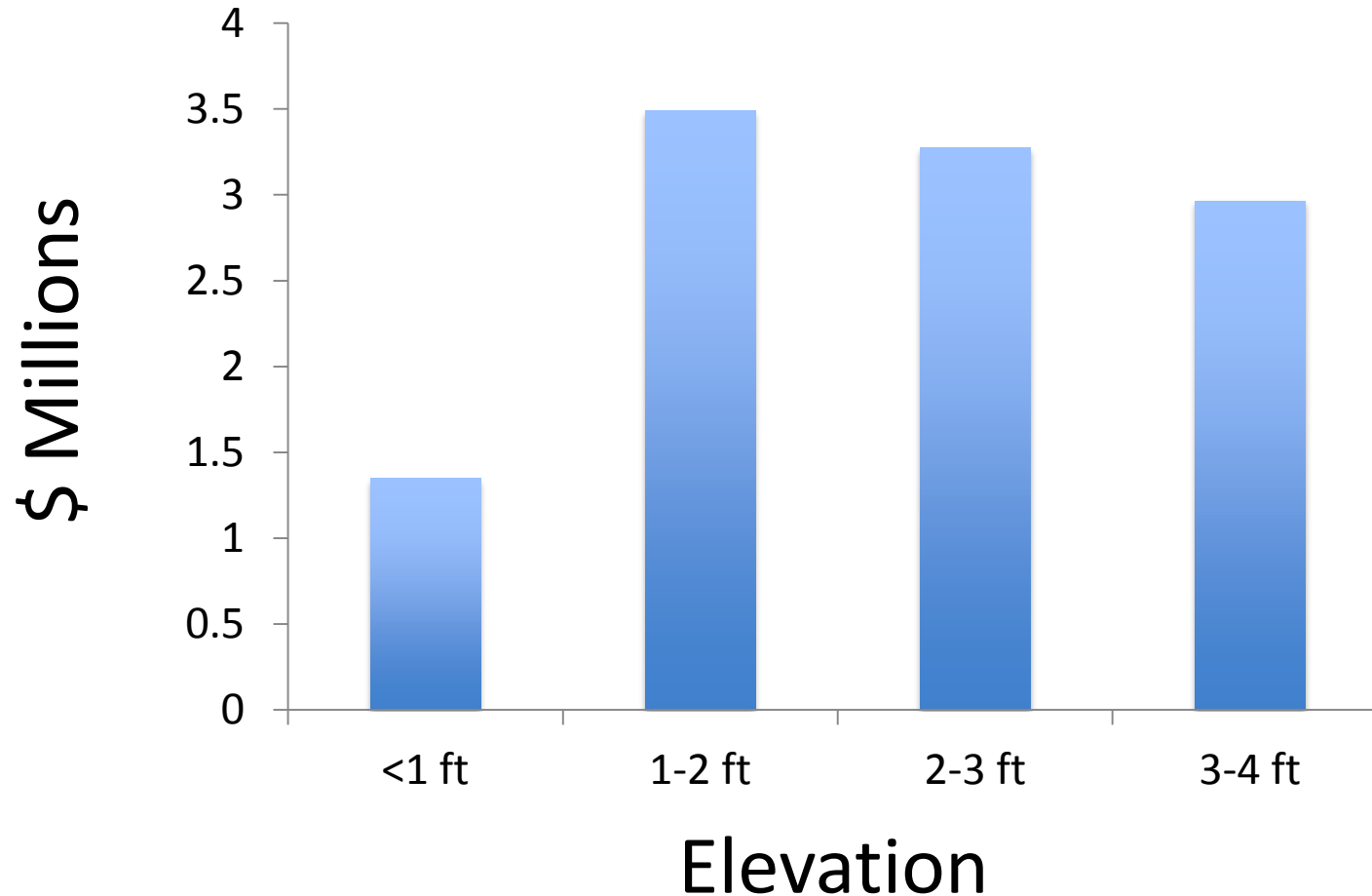
2,850 acres
below 4 feet

[Home »](#)[When »](#)[Where »](#)[What »](#)[Compare »](#)

Links:

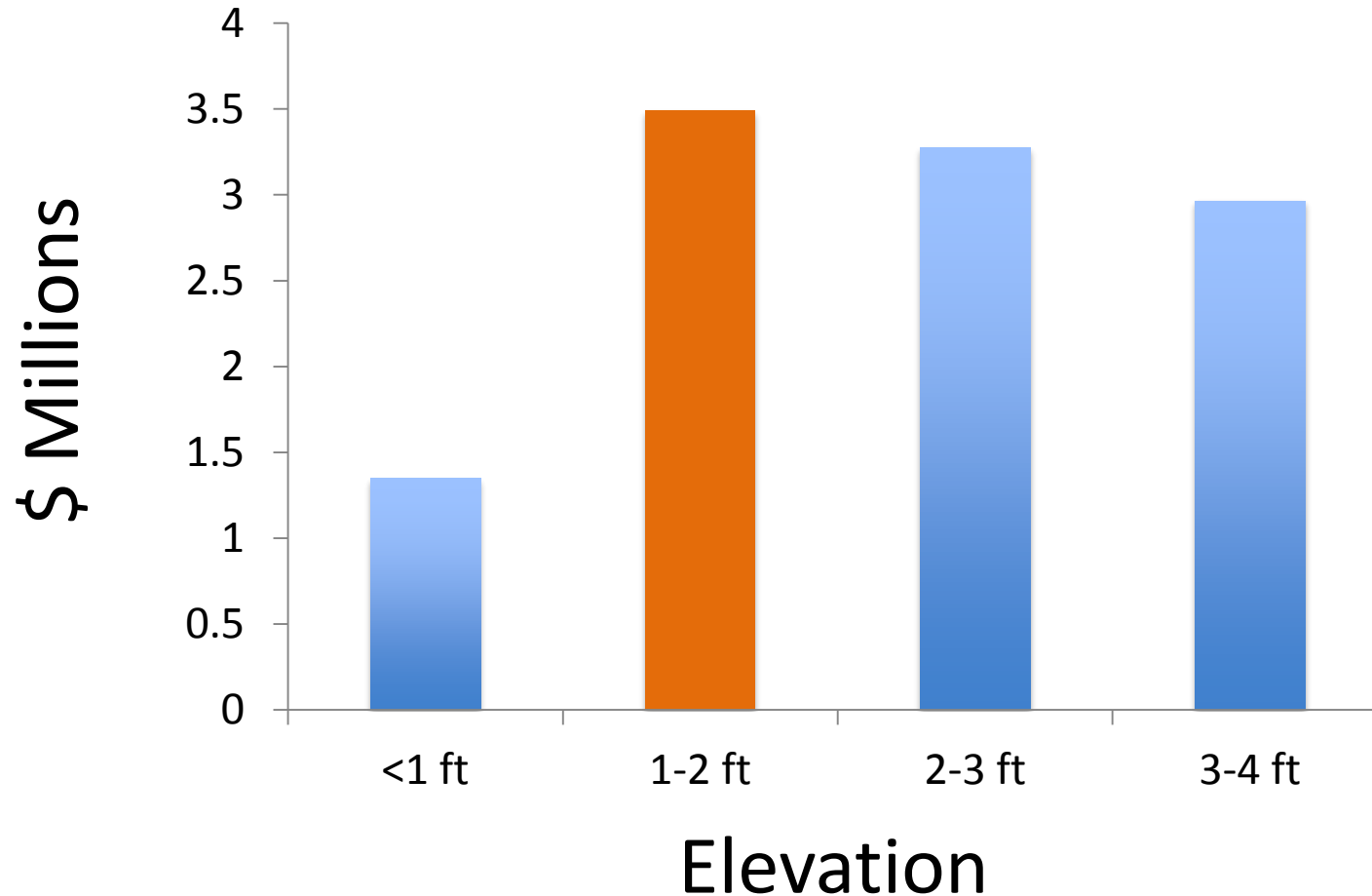
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Property value per acre - Miami



(above local high tide line, MHHW)

Property value per acre - Miami



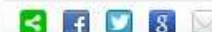
(above local high tide line, MHHW)

Surging Seas

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Sea Level Rise & Flood Threats in Florida



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WHERE



Place name or zip

WHEN



Place name or zip

WHAT



Place name or zip

COMPARE



Category ▼

RELATED RESILIENCY RESOURCES

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[The Southeast Florida Regional Partnership \(SFRP\)](#)

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[Florida Department of Economic Opportunity: State of Florida Community Resiliency Project](#)

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City et



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

Feet above
local high tide

LOCATION

NOAA water station at

■ Vaca Key, FL

Distance to the center of Miami
- 91 miles

PROJECTION TYPE

+ Flood risk

+ Risk multiplier

- Sea level

Basic

With mild flood

With moderate flood

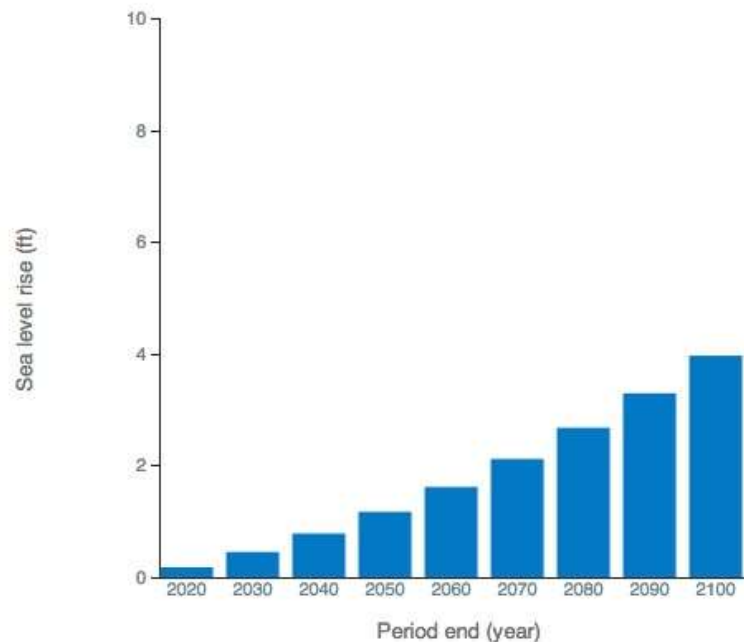
With extreme flood

Sea level and coastal flood risk projections at Vaca Key, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

Forecast sea level rise



National Climate Assessment, intermediate high scenario

MORE

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Surging Seas

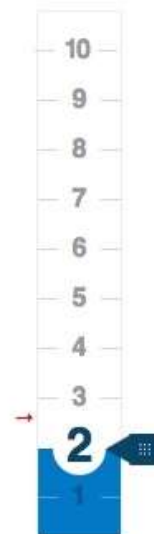
Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City et



WATER LEVEL

From combined
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storm surge,
and tide
(any year)

Feet above
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+ Risk multiplier

- Sea level

Basic

With mild flood

With moderate flood

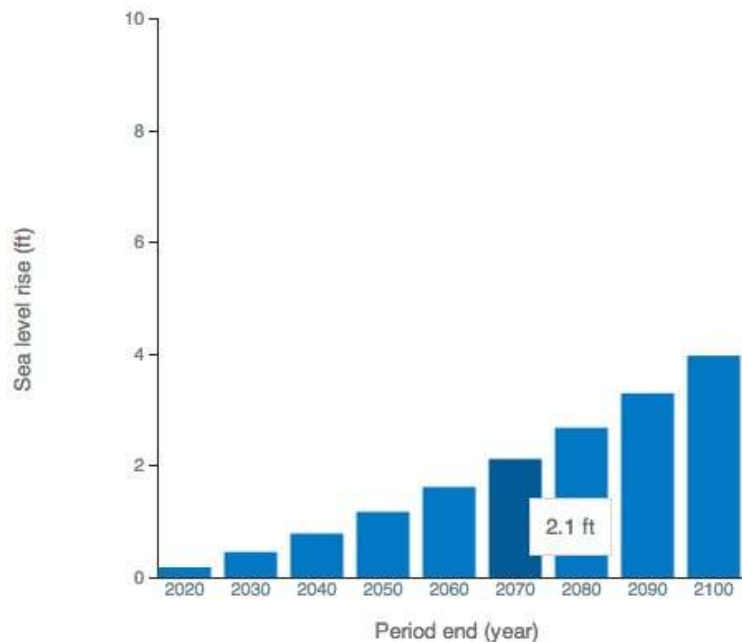
With extreme flood

Sea level and coastal flood risk projections at Vaca Key, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

Forecast sea level rise



National Climate Assessment, intermediate high scenario

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Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City et



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

10

9

8

7

6

5

4

3

2



Feet above
local high tide

LOCATION

NOAA water station at

■ Vaca Key, FL

Distance to the center of Miami
- 91 miles



PROJECTION TYPE

- Flood risk

Total

Annual

+ Risk multiplier

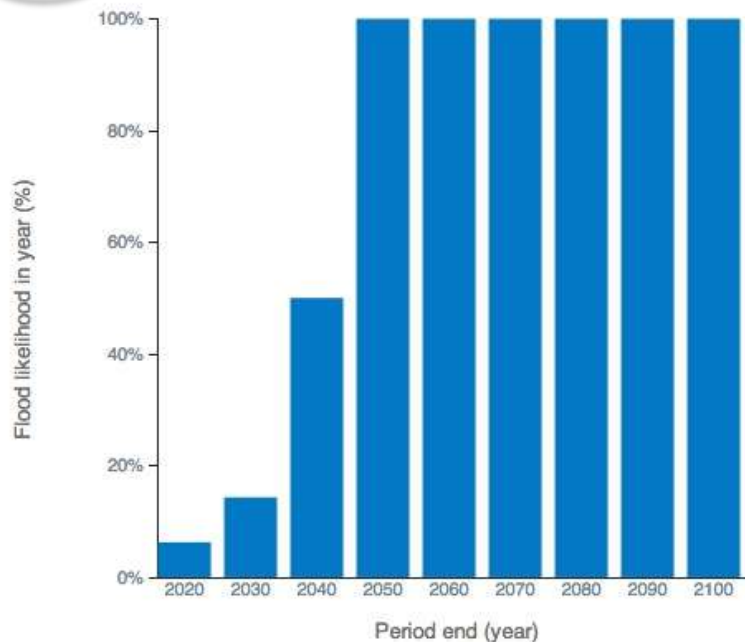
+ Sea level

Sea level and coastal flood risk projections at Vaca Key, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

2-ft coastal flood forecast including sea level rise (annual risk)



National Climate Assessment, intermediate high scenario

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City etc) Q

WATER LEVEL

From combined sea level rise, storm surge, and tide (any year)

10
9
8
7
6
5
4
3
2
1
0

2

Feet above local high tide

SETTINGS

Quickpick | Advanced

- ☐ Slow sea level rise
- ☒ Medium sea level rise
- ☐ Fast sea level rise
- ☐ No global sea level rise

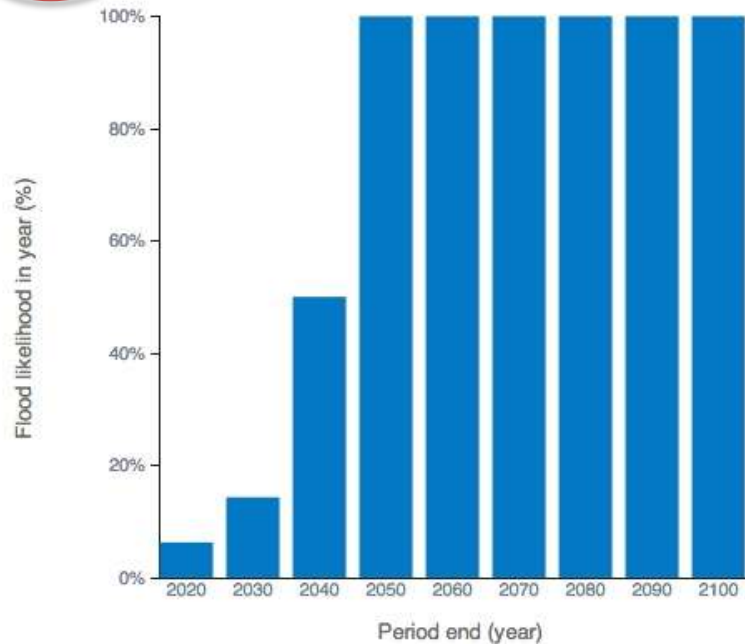
Based on global sea level projections of about 1.1 ft of rise by 2050, and 3.7 ft by 2100, from a 2012 baseline.

Sea level and coastal flood risk projections at Vaca Key, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

2-ft coastal flood forecast including sea level rise (annual risk)



National Climate Assessment, intermediate high scenario

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Sea level rise analysis by CLIMATE CENTRAL

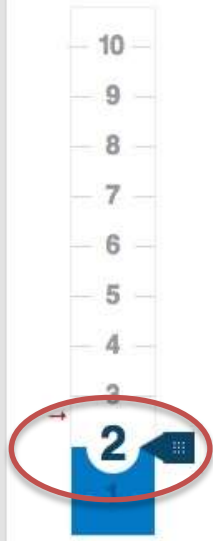
Type Any Place (City et) Q

Sea level and coastal flood risk projections at Vaca Key, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WATER LEVEL

From combined sea level rise, storm surge, and tide (any year)



Feet above local high tide

SETTINGS

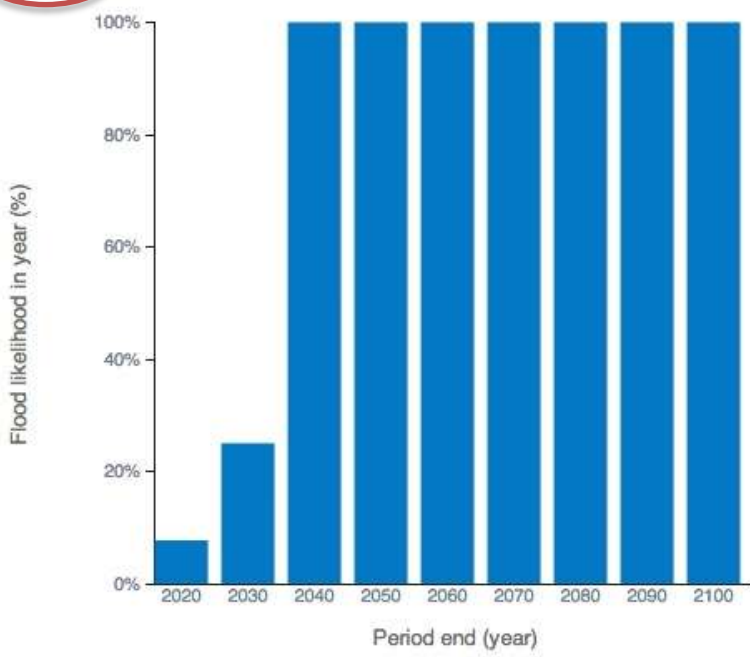
Quickpick | **Advanced**

- ☐ Slow sea level rise
- ☐ Medium sea level rise
- ☒ Fast sea level rise
- ☐ No global sea level rise

Based on global sea level projections of about 1.7 ft of rise by 2050, and 6.3 ft by 2100, from a 2012 baseline.

WHEN THREATS ARISE

2-ft coastal flood forecast including sea level rise (annual risk)



National Climate Assessment, highest scenario

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

10

9

8

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2

1



Feet above
local high tide

SETTINGS



Quickpick | Advanced

- ☒ Slow sea level rise
- ☐ Medium sea level rise
- ☐ Fast sea level rise
- ☐ No global sea level rise

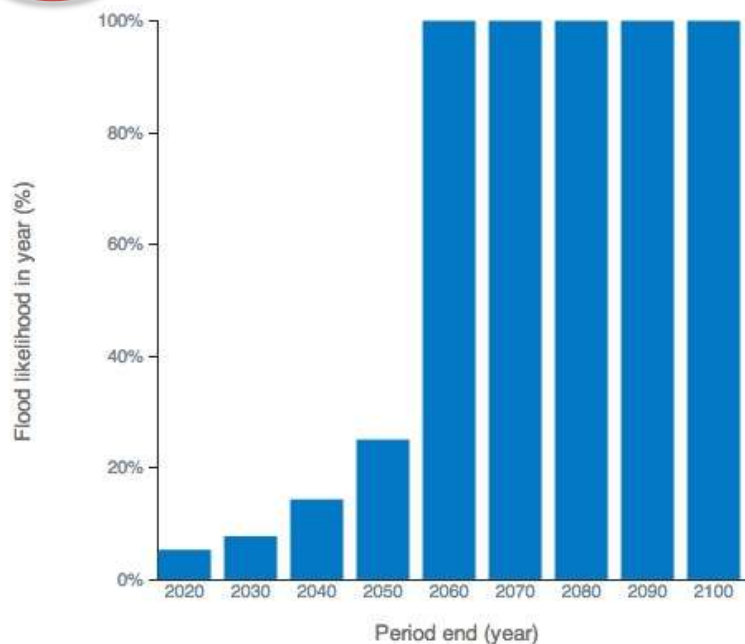
Based on global sea level projections of
about 0.5 ft of rise by 2050, and 1.5 ft
by 2100, from a 2012 baseline.

Sea level and coastal flood risk projections at Vaca Key, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

2-ft coastal flood forecast including sea level rise (annual risk)



National Climate Assessment, intermediate low scenario

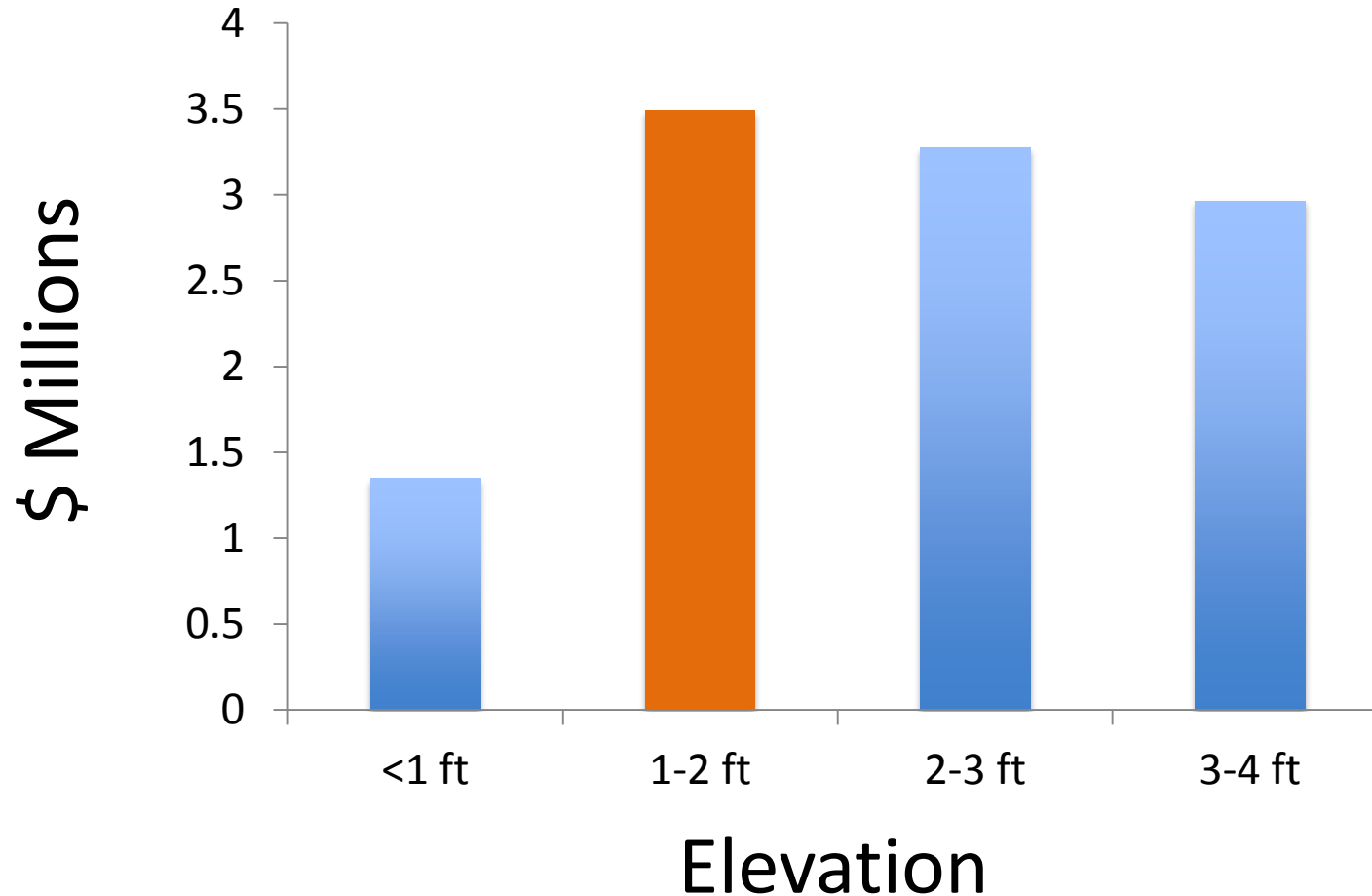
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Property value per acre - Miami



(above local high tide line, MHHW)

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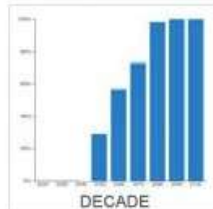
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WHERE



Place name or zip

WHEN



Place name or zip

WHAT



Place name or zip

COMPARE

Compare threats to different areas

Category ▼

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

RISK FINDER: FLORIDA

Type Any Place (City et)

WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

10

9

8

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4

3

2

1

Feet above
local high tide

Risk by decade »

AREA TYPE

- Basic

[State »](#)[Counties](#)[Cities](#)[Towns](#)[Zip Codes](#)[Congressional Districts](#)

+ Coming Additions

IMPACT TYPE

+ Socioeconomy

+ Population

+ Buildings

+ Infrastructure

- Contamination Risks

[EPA listed sites](#)[Landfills](#)[Brownfields](#)

+ Hazardous waste

+ Hazardous materials

+ Wastewater

+ By EPA program

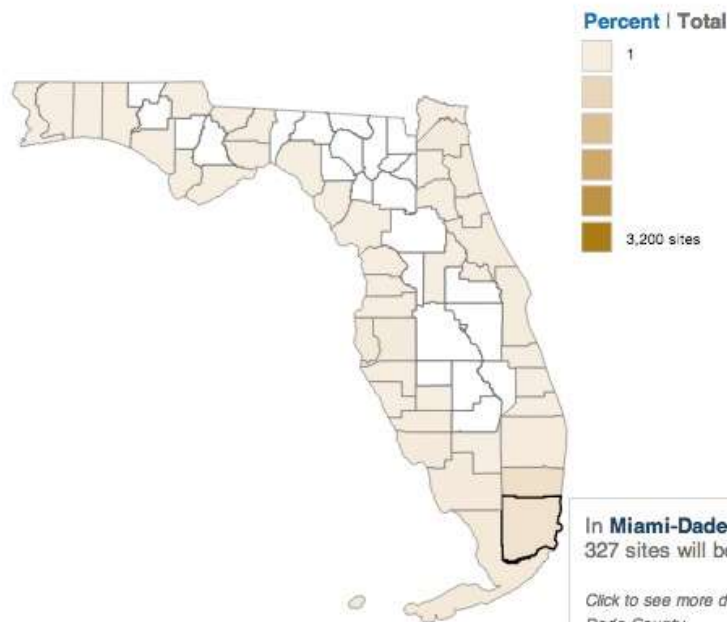
+ Land

Compare sea level rise and coastal flood risks across Florida

CHOOSE ANY WATER LEVEL, AREA TYPE AND IMPACT TYPE FOR COMPARISON

COMPARE THREATS

EPA listed sites below 4 ft in Florida Counties



MORE

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

RISK FINDER: FLORIDA

Type Any Place (City, etc)



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

10

9

8

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6

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4

3

2

1

Feet above
local high tide

Risk by decade »

AREA TYPE

- Basic

[State »](#)[Counties](#)[Cities](#)[Towns](#)[Zip Codes](#)[Congressional Districts](#)

+ Coming Additions

IMPACT TYPE

+ Socioeconomy

+ Population

+ Buildings

+ Infrastructure

- Contamination Risks

[EPA listed sites](#)[Landfills](#)[Brownfields](#)

+ Hazardous waste

+ Hazardous materials

- Wastewater

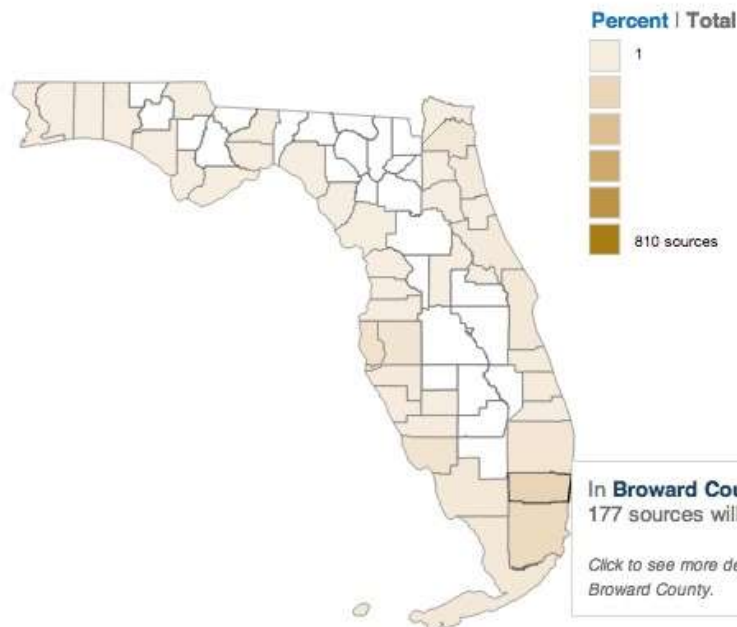
[Total sources](#)[Major](#)

Compare sea level rise and coastal flood risks across Florida

CHOOSE ANY WATER LEVEL, AREA TYPE AND IMPACT TYPE FOR COMPARISON

COMPARE THREATS

Wastewater sources below 4 ft in Florida Counties



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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL



RISK FINDER: FLORIDA

Type Any Place (City et)



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

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1

Feet above
local high tide

Risk by decade »

AREA TYPE

- Basic

State »

Counties

Cities

Towns

Zip Codes

Congressional Districts

+ Coming Additions

IMPACT TYPE

+ Socioeconomy

+ Population

+ Buildings

+ Infrastructure

- Contamination Risks

EPA listed sites

Landfills

Brownfields

+ Hazardous waste

+ Hazardous materials

- Wastewater

Total sources

Major

Compare sea level rise and coastal flood risks across Florida

CHOOSE ANY WATER LEVEL, AREA TYPE AND IMPACT TYPE FOR COMPARISON

COMPARE THREATS

Major wastewater sources below 4 ft in Florida Counties



Percent | Total

1

4 sources

MORE

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RISK FINDER: FLORIDA

Type Any Place (City et)



WATER LEVEL

From combined
sea level rise,
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(any year)

10

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1

Feet above
local high tide

Risk by decade »

AREA TYPE

- Basic

[State »](#)[Counties](#)[Cities](#)[Towns](#)[Zip Codes](#)[Congressional Districts](#)

+ Coming Additions

IMPACT TYPE

+ Socioeconomy

+ Population

+ Buildings

+ Infrastructure

- Contamination Risks

[EPA listed sites](#)[Landfills](#)[Brownfields](#)

+ Hazardous waste

+ Hazardous materials

- Wastewater

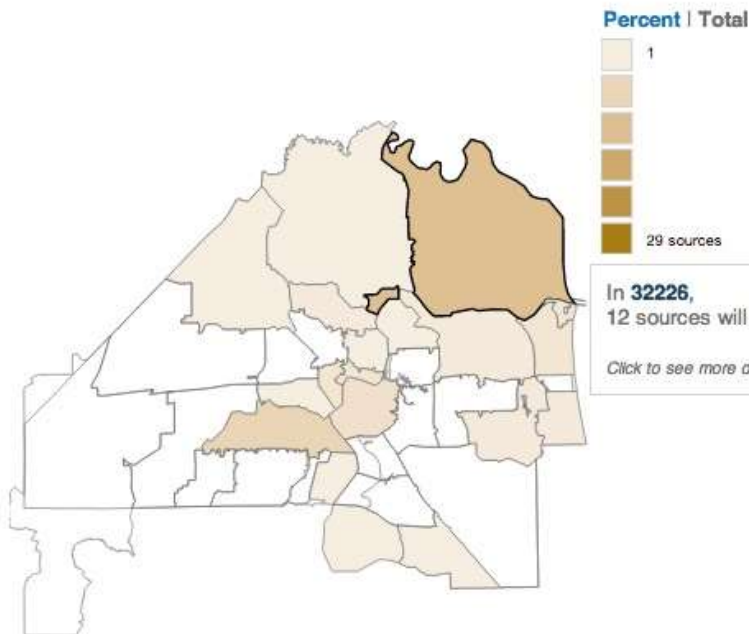
[Total sources](#)[Major](#)

Compare sea level rise and coastal flood risks across Florida

PLEASE WAIT, LOADING...

COMPARE THREATS

Wastewater sources below 4 ft in Duval Zip Codes



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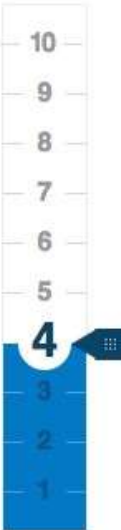
RISK FINDER: FLORIDA

Type Any Place (City et



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)



Feet above
local high tide

Risk by decade »

AREA TYPE

- Basic

State »

Counties

Cities

Towns

Zip Codes

Congressional Districts

+ Coming Additions

IMPACT TYPE

+ Socioeconomy

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+ Buildings

+ Infrastructure

- Contamination Risks

EPA listed sites

Landfills

Brownfields

+ Hazardous waste

+ Hazardous materials

+ Wastewater

+ By EPA program

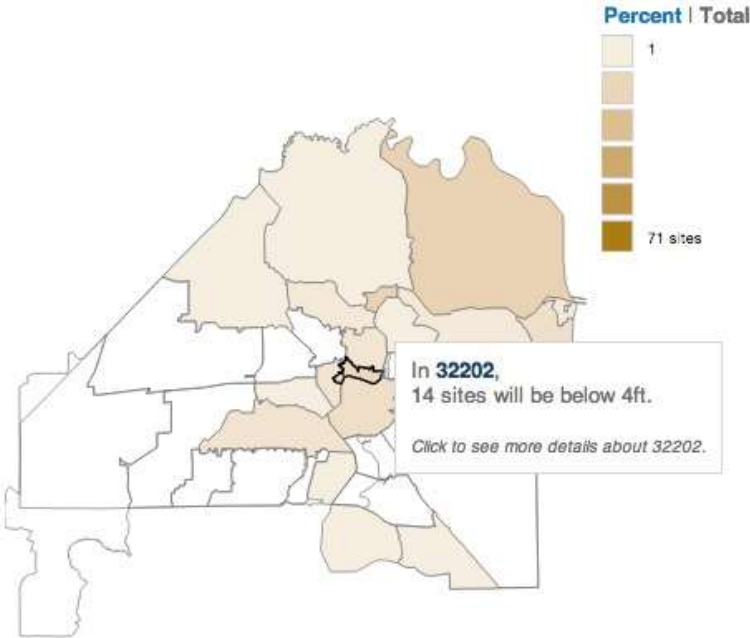
+ Land

Compare sea level rise and coastal flood risks across Florida

PLEASE WAIT, LOADING...

COMPARE THREATS

EPA listed sites below 4 ft in Duval Zip Codes



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Sea level rise analysis by CLIMATE CENTRAL



Type Any Place (City et)



WATER LEVEL

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10

9

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1

Feet above
local high tide

Risk by decade »

LOCATION

Duval County

Population: 861,524

[Show at-risk Area Map](#)[Full screen map »](#)

IMPACT TYPE

Socioeconomy

Population

+ Buildings

+ Infrastructure

- Contamination Risks

Hazardous waste

Hazardous materials

Wastewater

By EPA program

Sea level rise and coastal flood risk for Duval County, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

CONTAMINATION RISKS » HAZARDOUS WASTE

Duval County exposed contamination risks on land below 4 feet.

[Percent](#) | [Total](#)

Hazardous waste sites

35 sites
below 4 feet

Major hazwaste source sites

0 generators
below 4 feet

Minor hazwaste source sites

21 generators
below 4 feet

Unspecified hazardous waste sites

13 sites
below 4 feet

MORE

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL



Type Any Place (City et) Q

WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)

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2

1

Feet above
local high tide
Risk by decade »

LOCATION

Duval County

Population: 861,524

[Show at-risk Area Map](#)[Full screen map »](#)

IMPACT TYPE

Socioeconomy

Population

+ Buildings

+ Infrastructure

- Contamination Risks

Hazardous waste

Hazardous materials

Wastewater

By EPA program

Sea level rise and coastal flood risk for Duval County, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

CONTAMINATION RISKS » HAZARDOUS MATERIALS

Duval County exposed contamination risks on land below 4 feet.

[Percent](#) | [Total](#)

Hazardous materials
facilities

6 facilities
below 4 feet

Extreme hazmat
facilities

2 facilities
below 4 feet

Pesticide facilities

1 facilities
below 4 feet

Oil facilities

1 facilities
below 4 feet

MORE

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Feet above
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Risk by decade »

LOCATION

Duval County

Population: 861,524

[Show at-risk Area Map](#)[Full screen map »](#)

IMPACT TYPE

Socioeconomy

Population

+ Buildings

+ Infrastructure

- Contamination Risks

Hazardous waste

Hazardous materials

Wastewater

By EPA program

Sea level rise and coastal flood risk for Duval County, Florida

CHOOSE WATER LEVEL AND IMPACT CATEGORY TO SEE SUBMERGENCE THREATS

WHAT COULD SUBMERGE

CONTAMINATION RISKS » WASTEWATER

Duval County exposed contamination risks on land below 4 feet.

[Percent](#) | [Total](#)

Wastewater sites

51 sources
below 4 feet

Major wastewater sites

1 sources
below 4 feet

Nonmajor wastewater sites

50 sources
below 4 feet

Sewage plants

2 plants
below 4 feet

MORE

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

Type Any Place (City, etc)



WATER LEVEL

From combined
sea level rise,
storm surge,
and tide
(any year)



Feet above
local high tide

LOCATION

NOAA water station at

■ **Fernandina Beach, FL**

Distance to the center of **Duval County** - 28 miles



PROJECTION TYPE

- Flood risk

Total

Annual

+ Risk multiplier

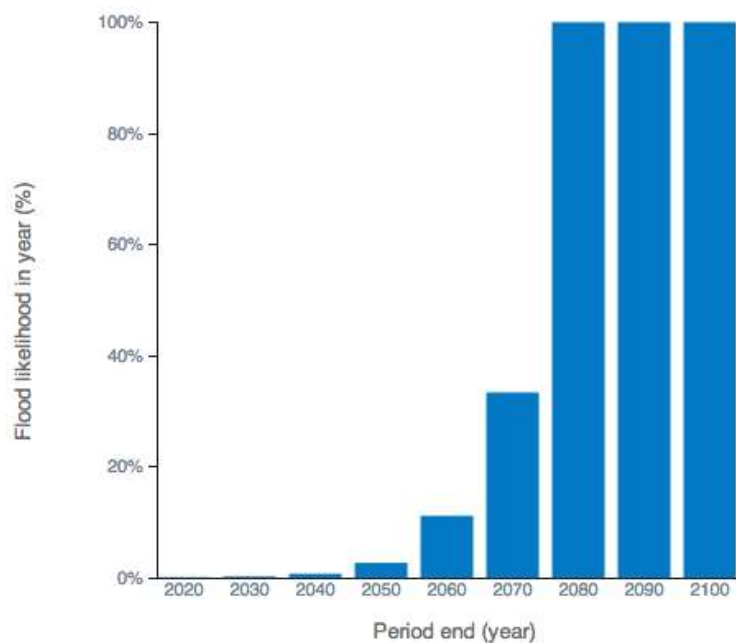
+ Sea level

Sea level and coastal flood risk projections at Fernandina Beach, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

4-ft coastal flood forecast including sea level rise (annual risk)



National Climate Assessment, Intermediate high scenario

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

 Type Any Place (City, etc)


WATER LEVEL

From combined sea level rise, storm surge, and tide (any year)



Feet above local high tide

LOCATION

NOAA water station at

■ **Fernandina Beach, FL**

Distance to the center of Duval County - 28 miles



PROJECTION TYPE

- Flood risk

Total

Annual

+ Risk multiplier

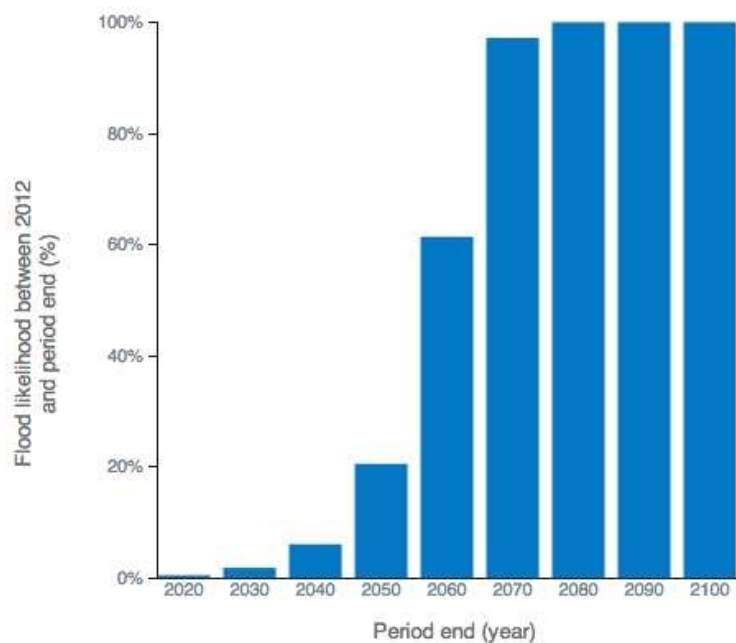
+ Sea level

Sea level and coastal flood risk projections at Fernandina Beach, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

4-ft coastal flood forecast including sea level rise (total risk)



National Climate Assessment, intermediate high scenario

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL



RISK FINDER: FLORIDA

Type Any Place (City, etc)



WATER LEVEL

From combined sea level rise, storm surge, and tide (any year)



Feet above local high tide

LOCATION

NOAA water station at

■ **Fernandina Beach, FL**

Distance to the center of Duval County - 28 miles



PROJECTION TYPE

- Flood risk

Total

Annual

+ Risk multiplier

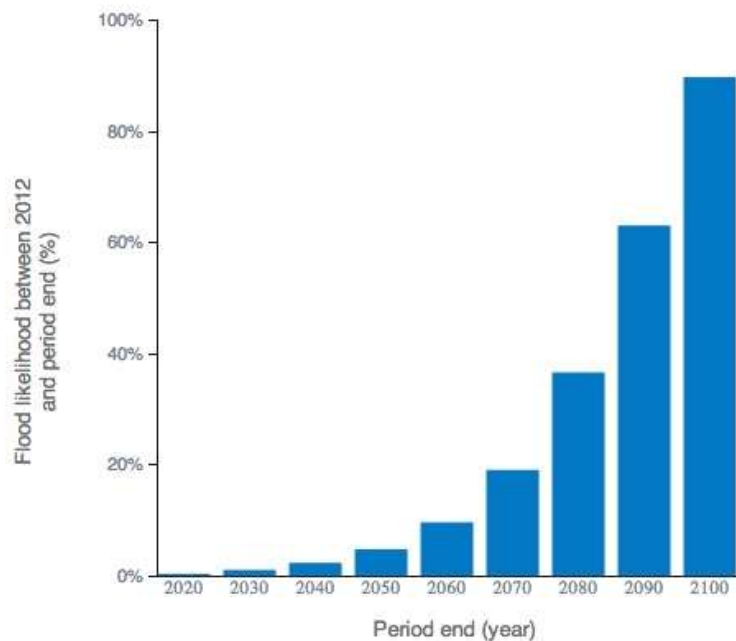
+ Sea level

Sea level and coastal flood risk projections at Fernandina Beach, FL

CHOOSE WATER LEVEL AND PROJECTION TYPE AND SETTINGS

WHEN THREATS ARISE

4-ft coastal flood forecast including sea level rise (total risk)



National Climate Assessment, intermediate low scenario

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Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

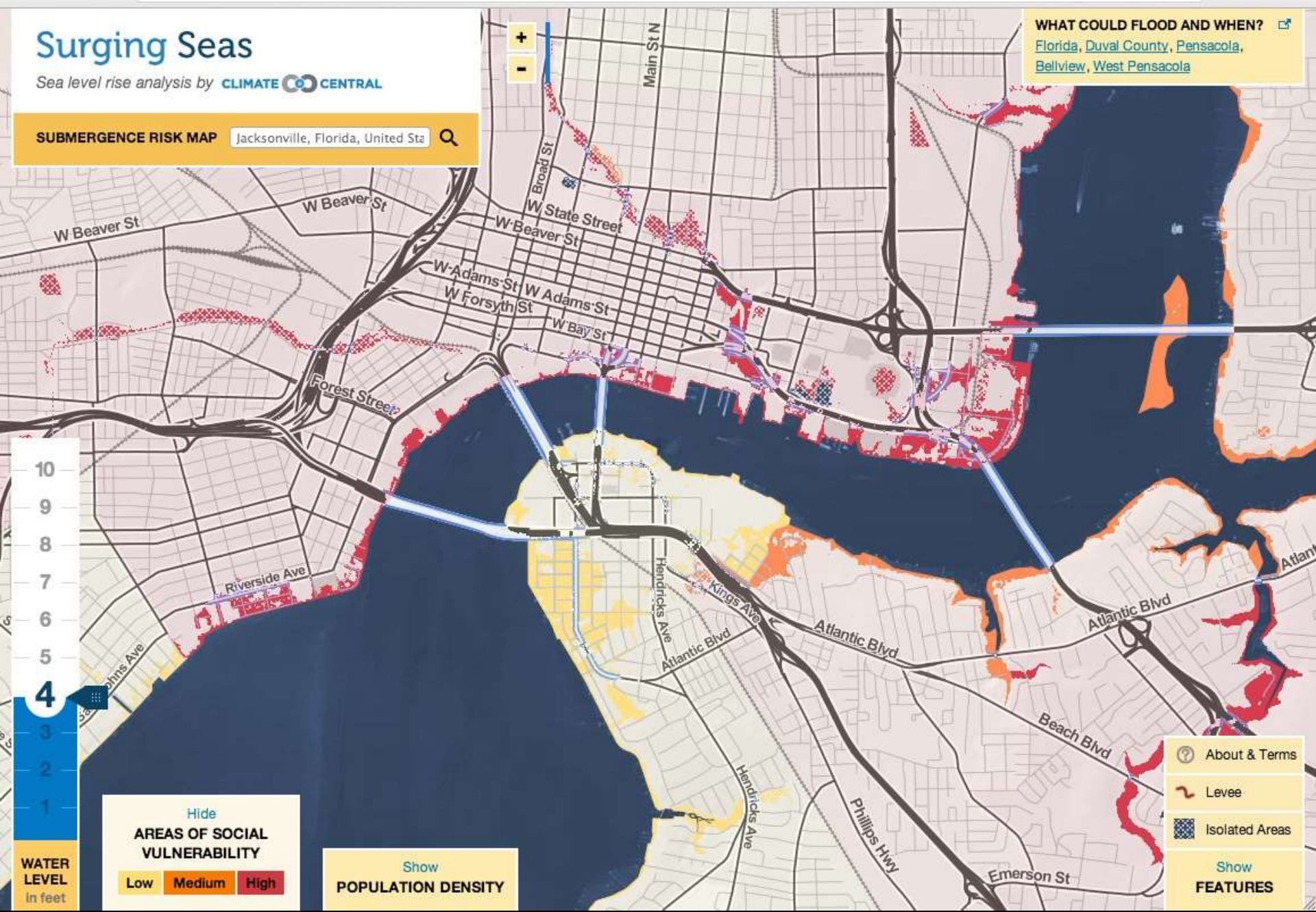
SUBMERGENCE RISK MAP

Jacksonville, Florida, United Sta



WHAT COULD FLOOD AND WHEN?

[Florida](#), [Duval County](#), [Pensacola](#),
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10
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AREAS OF SOCIAL
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Low Medium High

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POPULATION DENSITY

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📏 Levee

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WATER
LEVEL
in feet

Surging Seas

Sea level rise analysis by CLIMATE CENTRAL

SUBMERGENCE RISK MAP

Jacksonville, Florida, United Sta

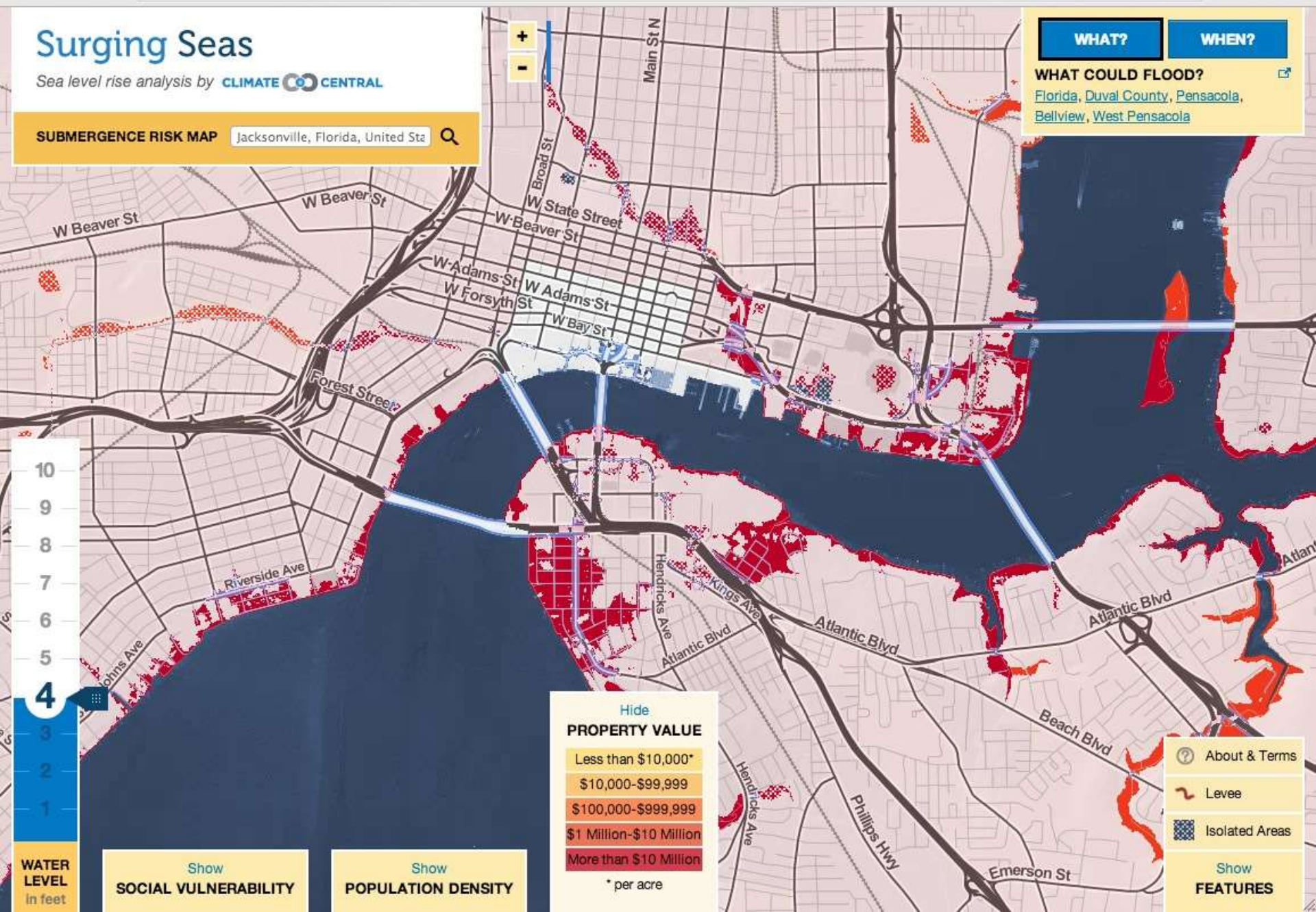


WHAT?

WHEN?

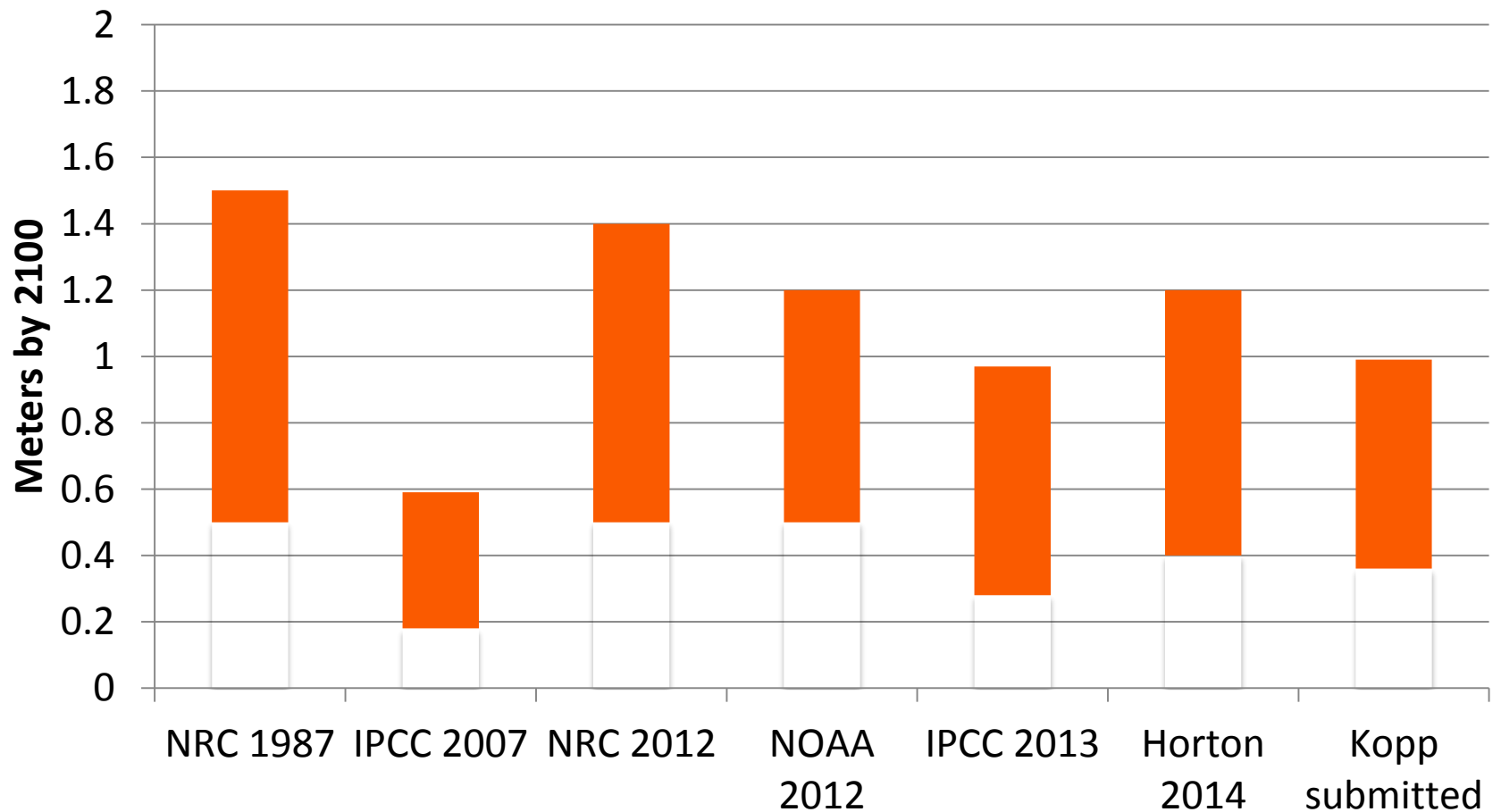
WHAT COULD FLOOD?

Florida, Duval County, Pensacola, Bellview, West Pensacola

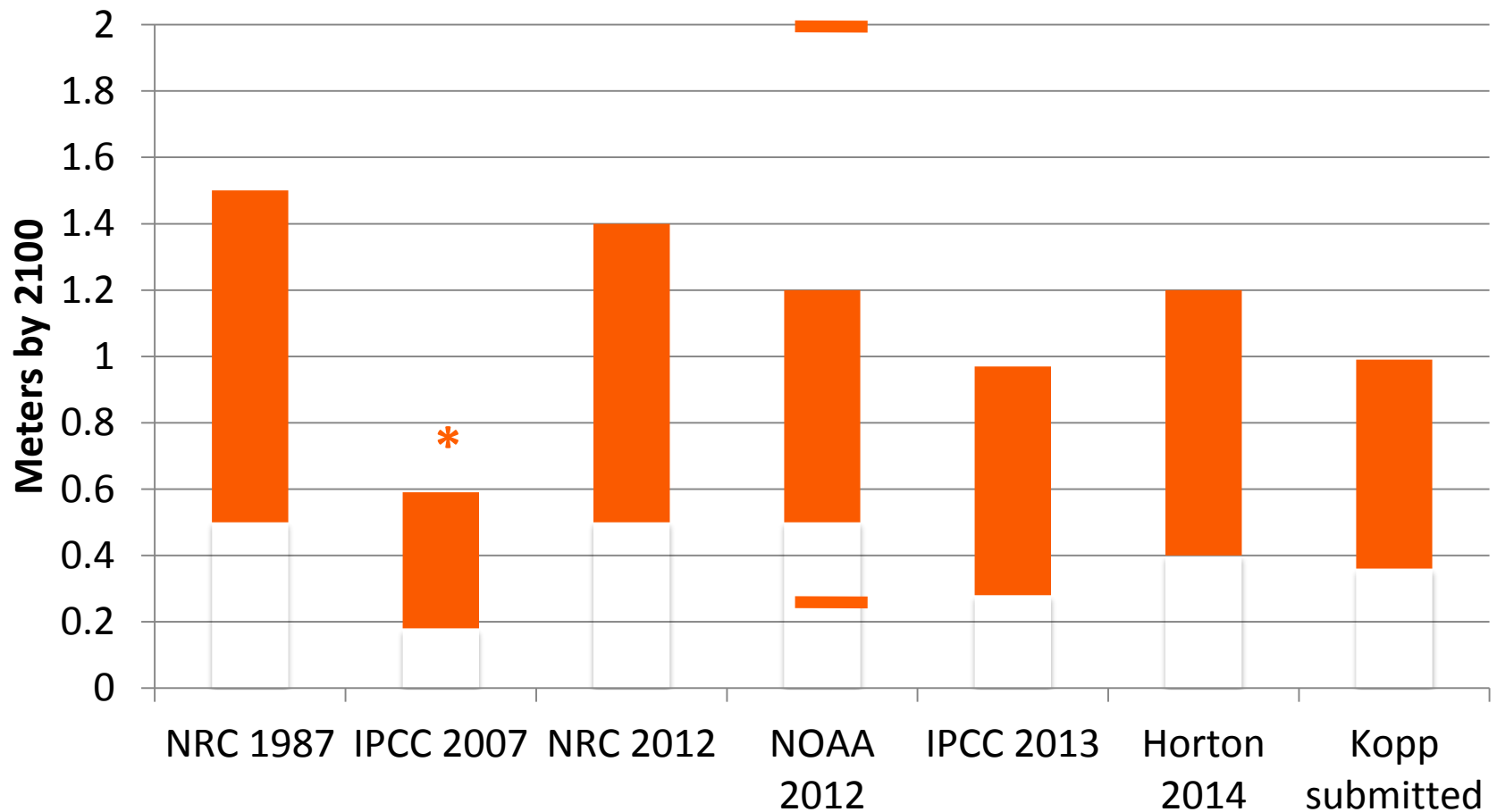


Likely

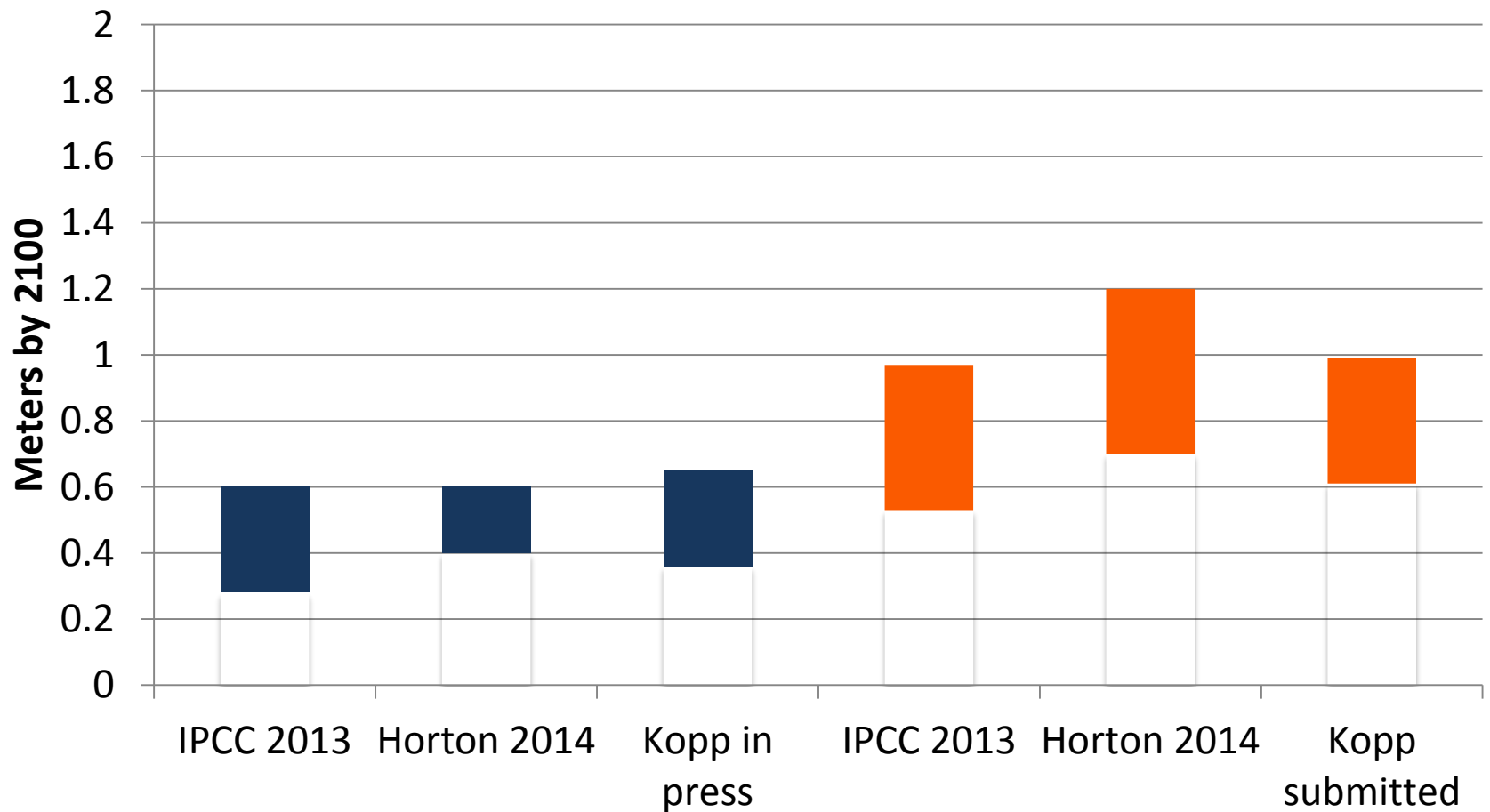
Likely SLR by 2100, Across Scenarios



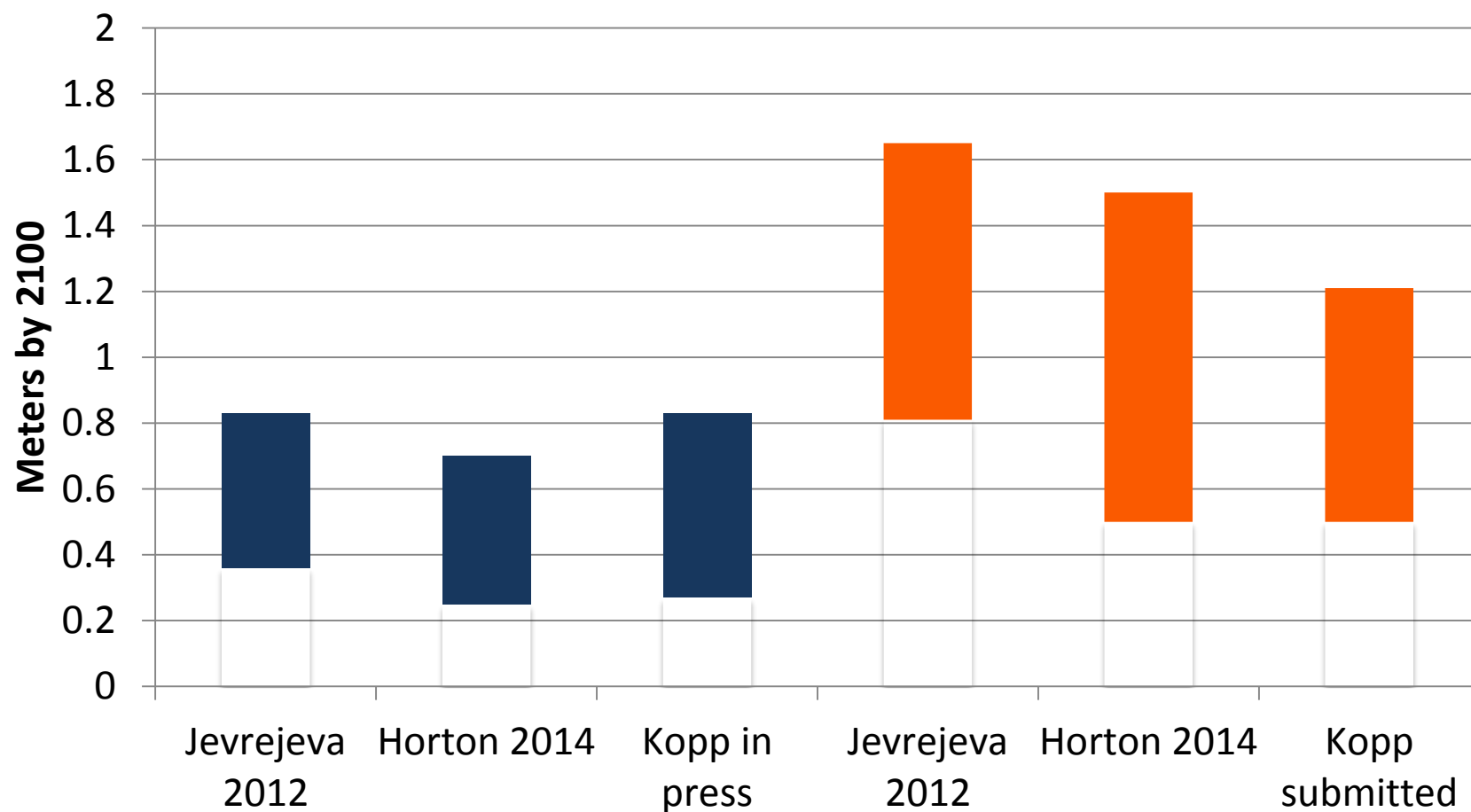
Likely SLR by 2100, Across Scenarios



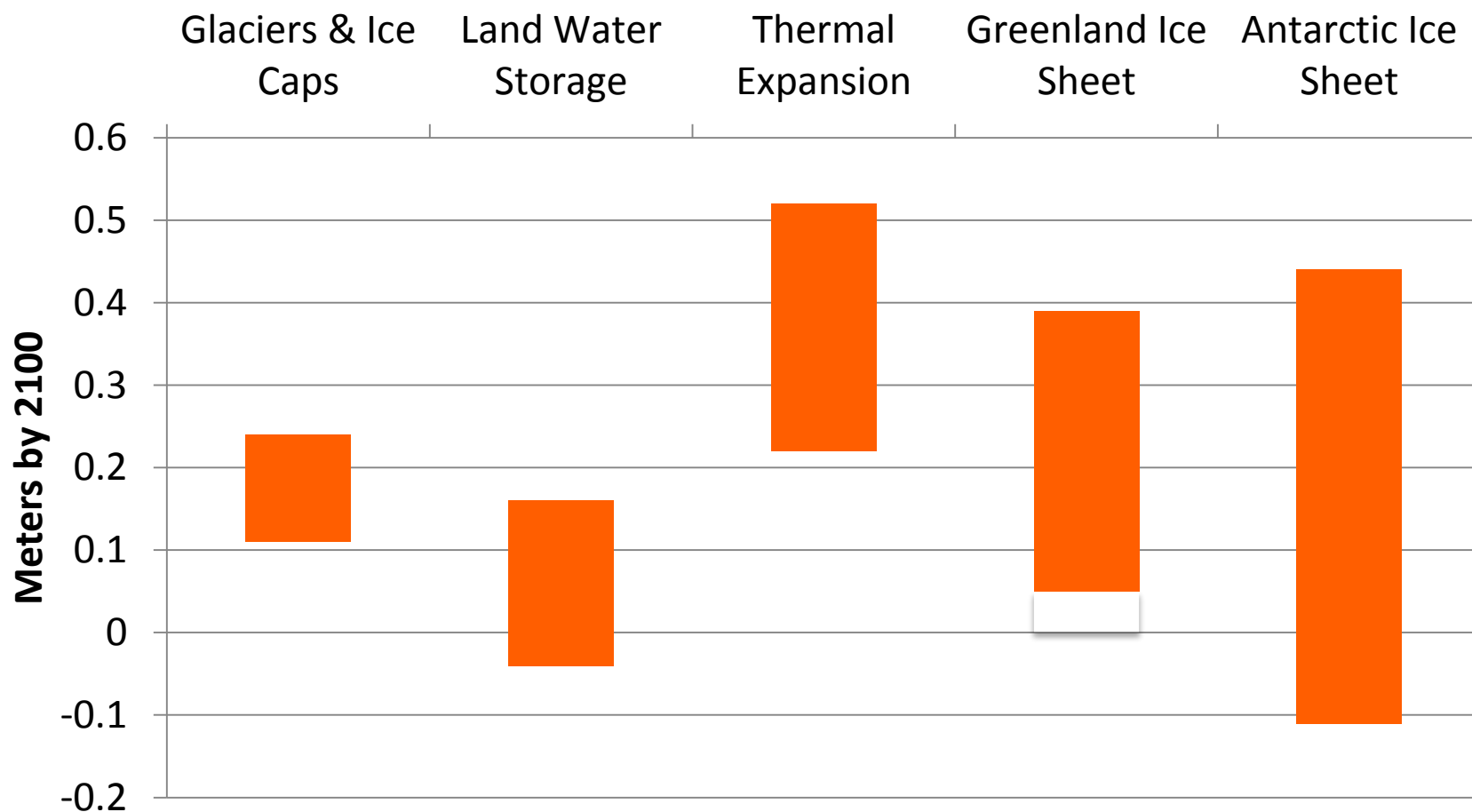
Likely SLR by 2100, RCP 2.6 vs. 8.5



Very likely SLR by 2100, RCP 2.6 vs. 8.5

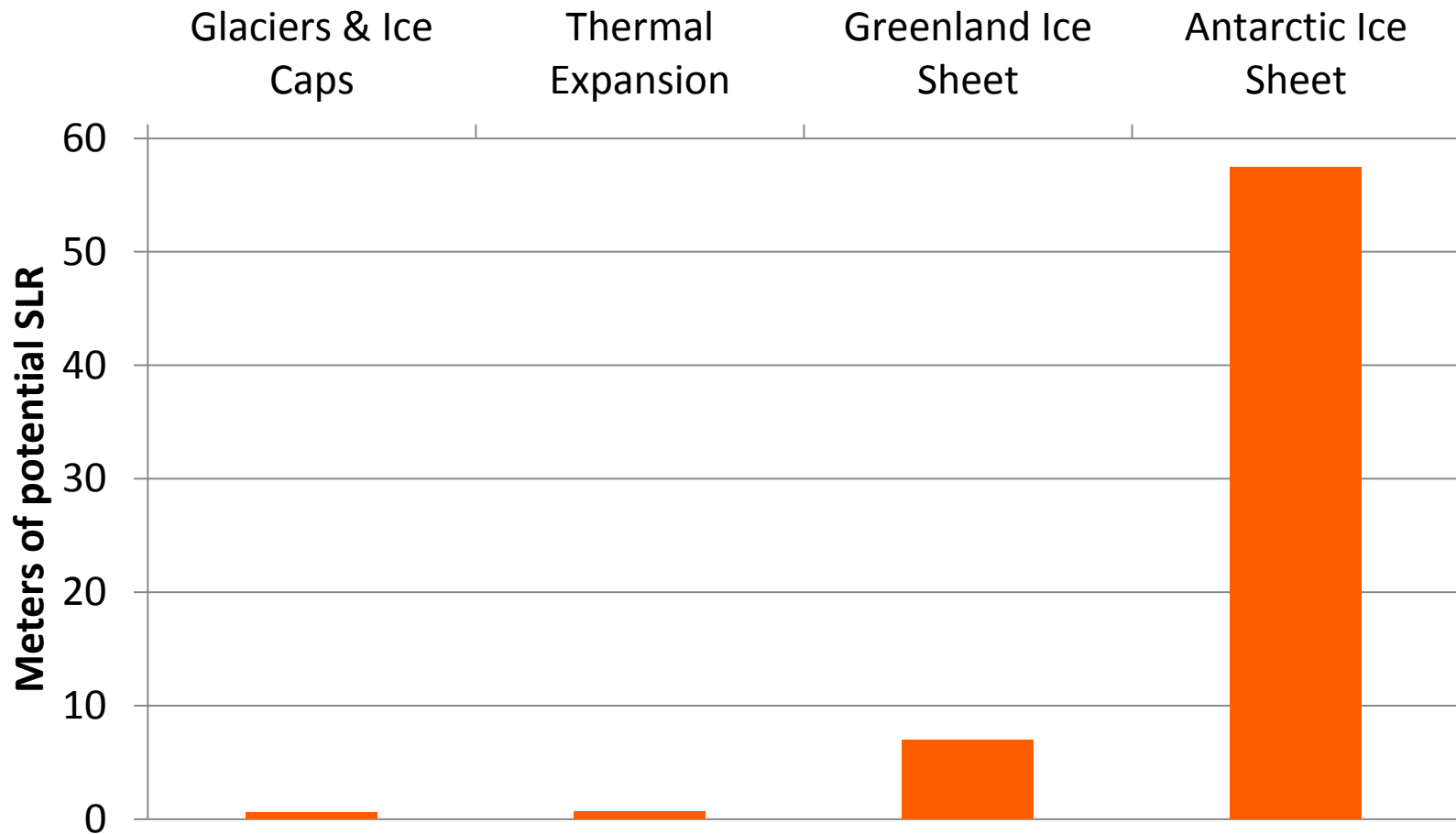


Components of very likely SLR by 2100



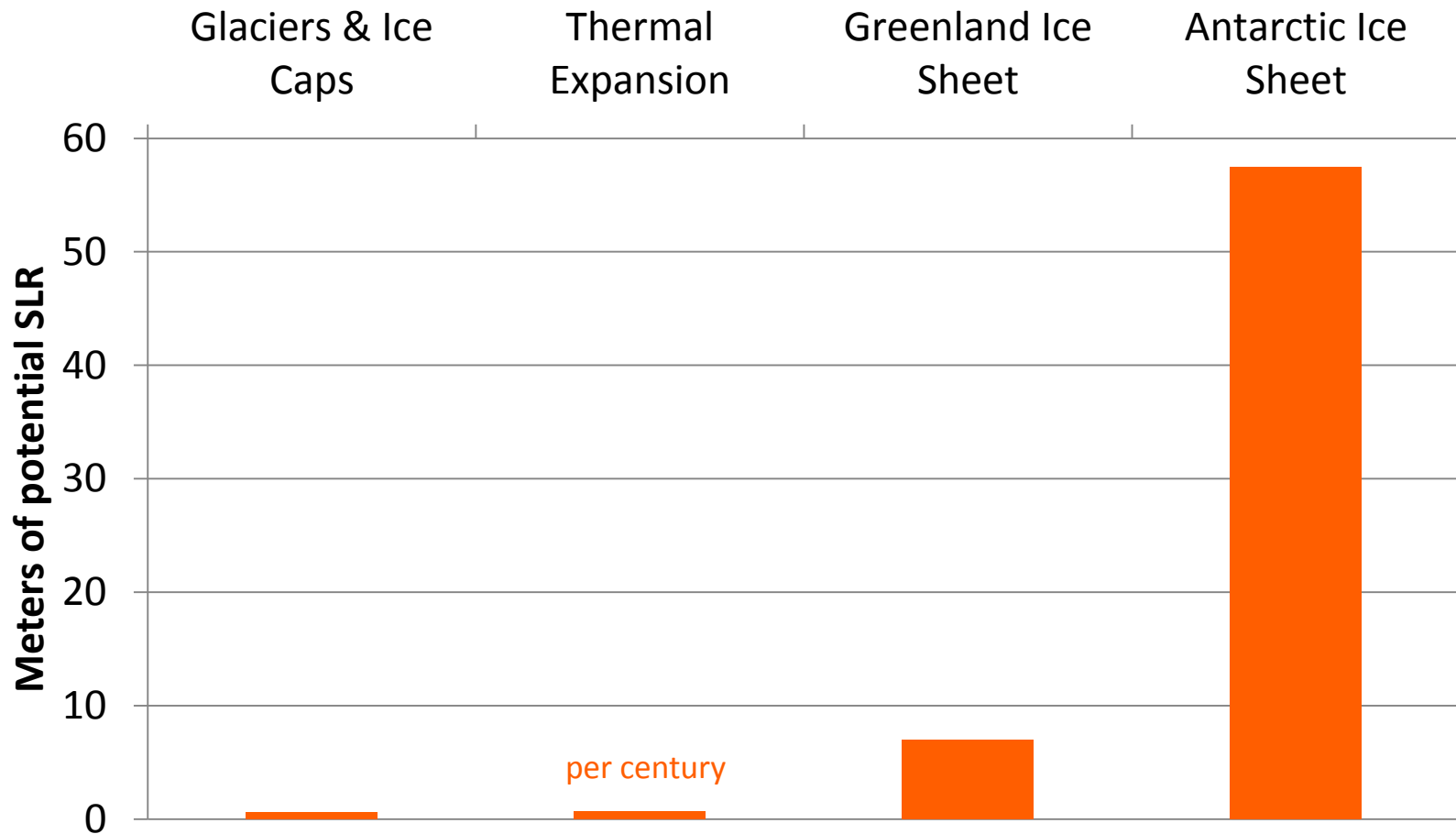
Source: Kopp et al (submitted)

Components of total potential SLR



Source: Levermann et al 2013, PNAS

Components of total potential SLR

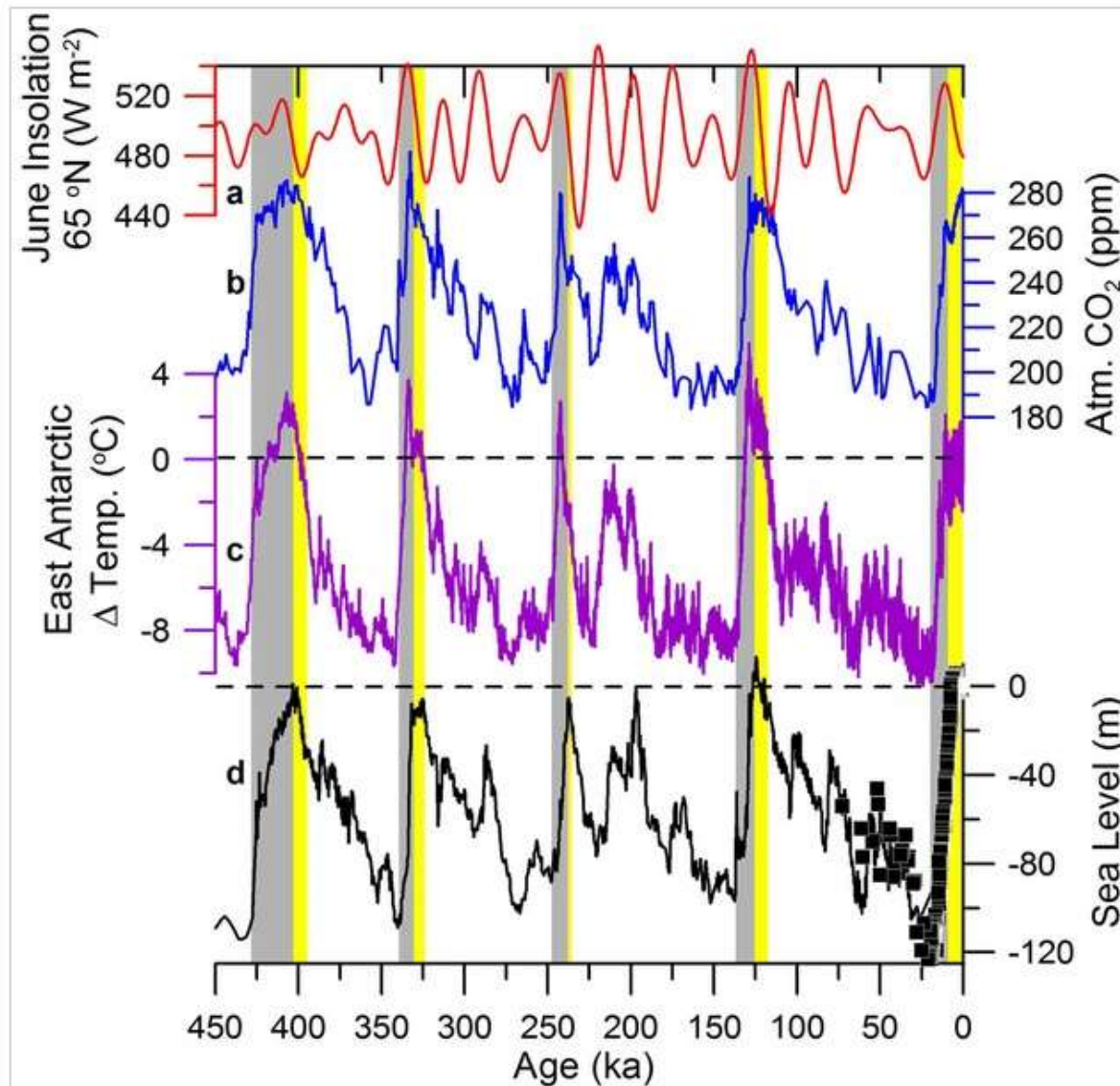


Source: Levermann et al 2013, PNAS

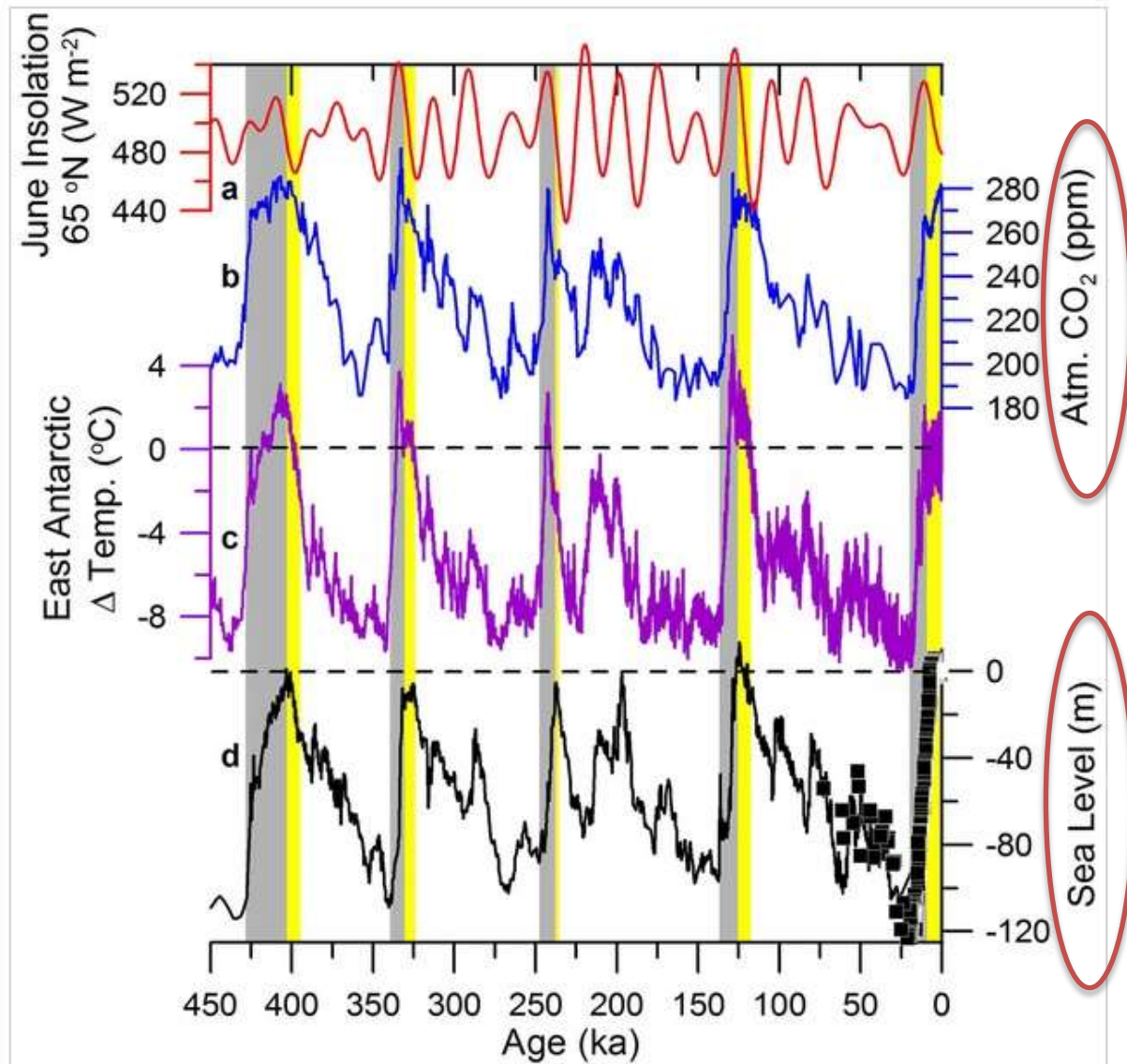


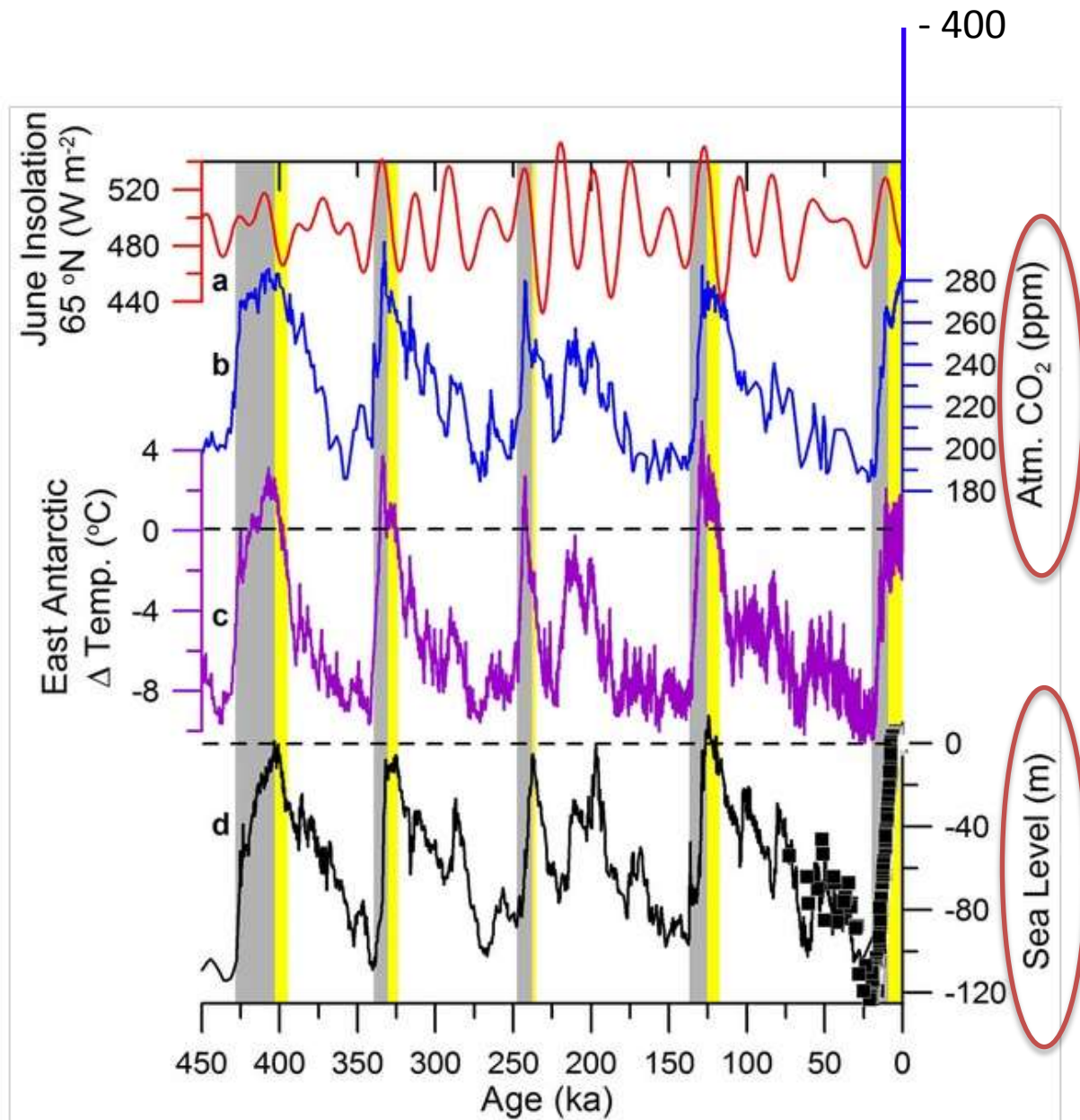
Inevitable





Source: Carlson 2011, Nature Education Knowledge



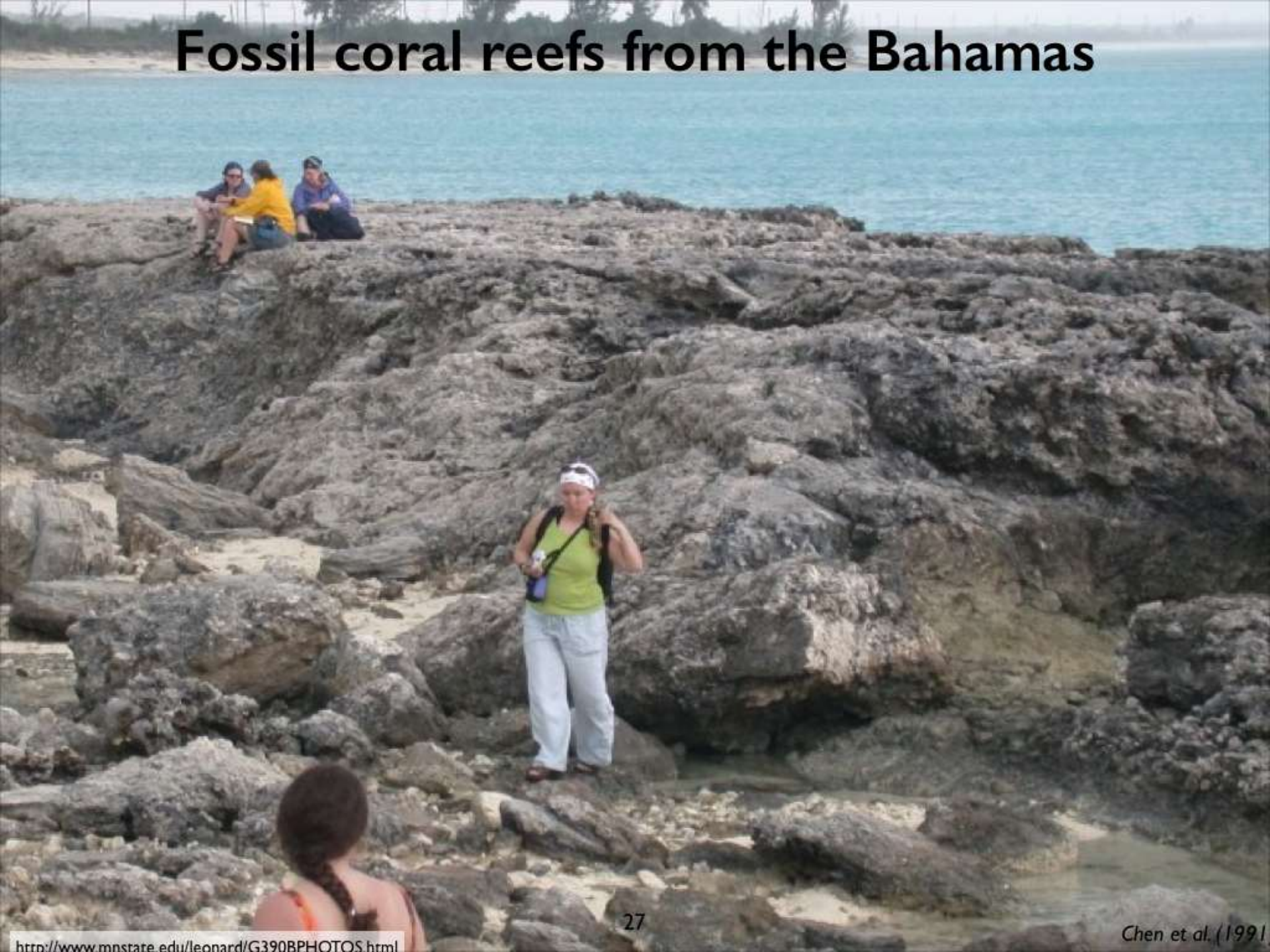


Ice Volume and Sea Level During the Last Interglacial

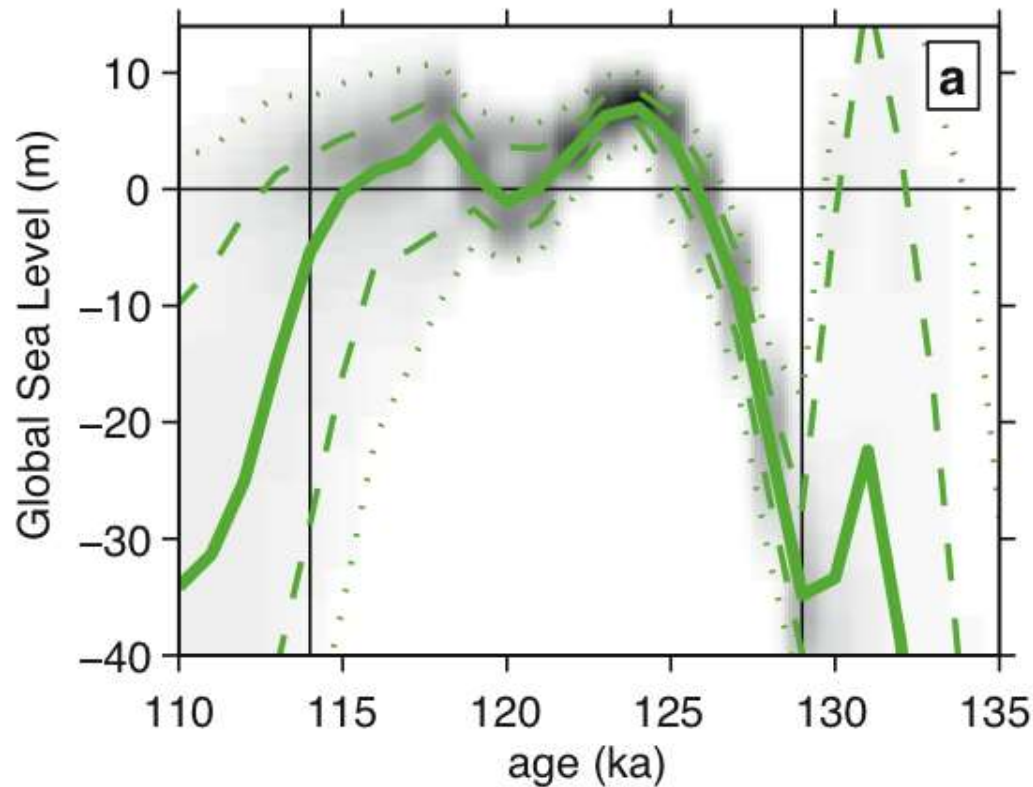
A. Dutton^{1,2*} and K. Lambeck^{1,3}

During the last interglacial period, ~125,000 years ago, sea level was at least several meters higher than at present, with substantial variability observed for peak sea level at geographically diverse sites. Speculation that the West Antarctic ice sheet collapsed during the last interglacial period has drawn particular interest to understanding climate and ice-sheet dynamics during this time interval. We provide an internally consistent database of coral U-Th ages to assess last interglacial sea-level observations in the context of isostatic modeling and stratigraphic evidence. **These data indicate that global (eustatic) sea level peaked 5.5 to 9 meters above present sea level,** requiring smaller ice sheets in both Greenland and Antarctica relative to today and indicating strong sea-level sensitivity to small changes in radiative forcing.

Fossil coral reefs from the Bahamas



Mean global sea level reconstructed for the Last Interglacial



95% probability >6.6 m higher than today.

33% probability >9.4 m

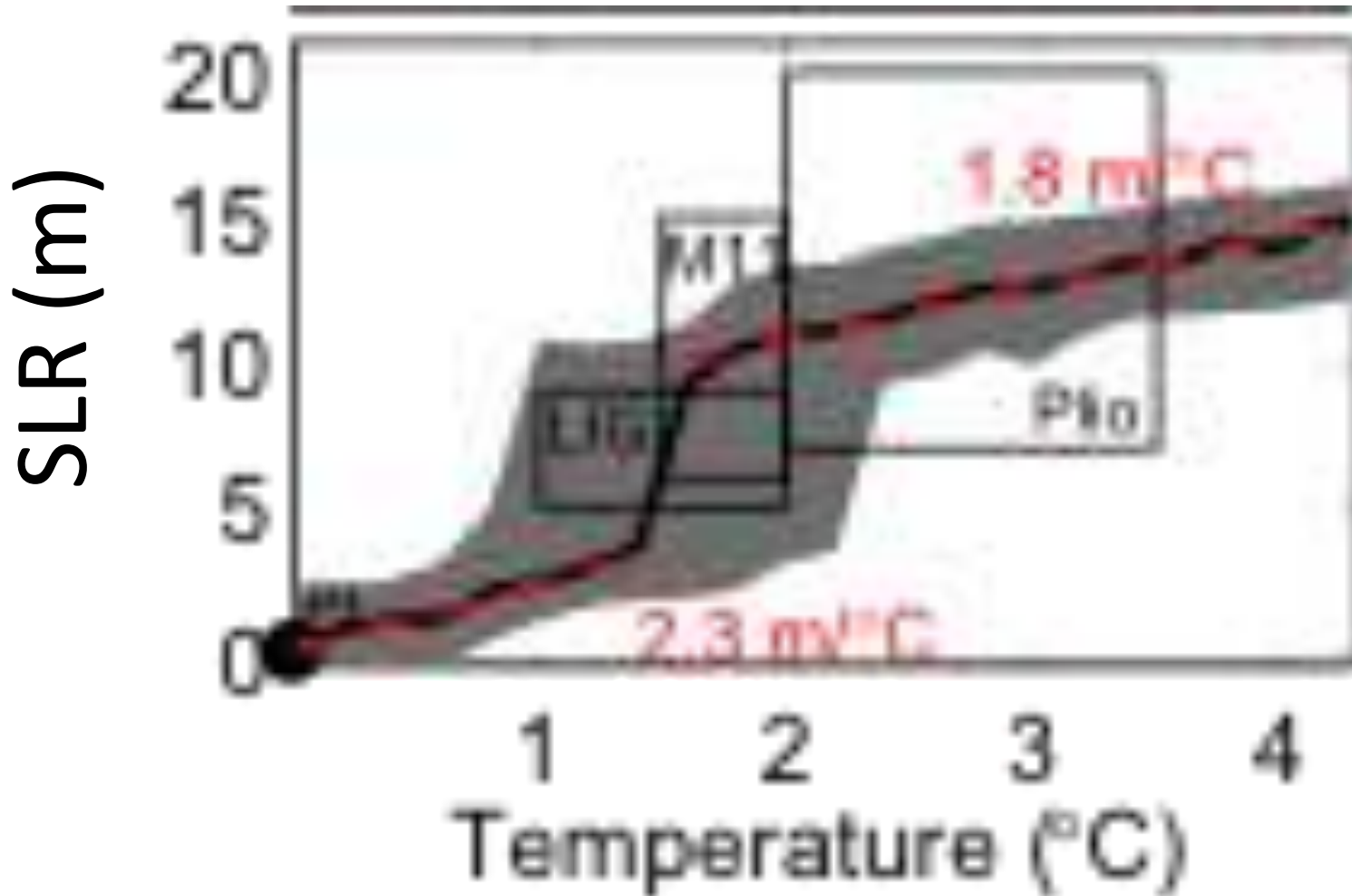
Pliocene global sea-level, three million years ago (last time CO₂ was comparable to today), peaked about 50-80 feet higher than today



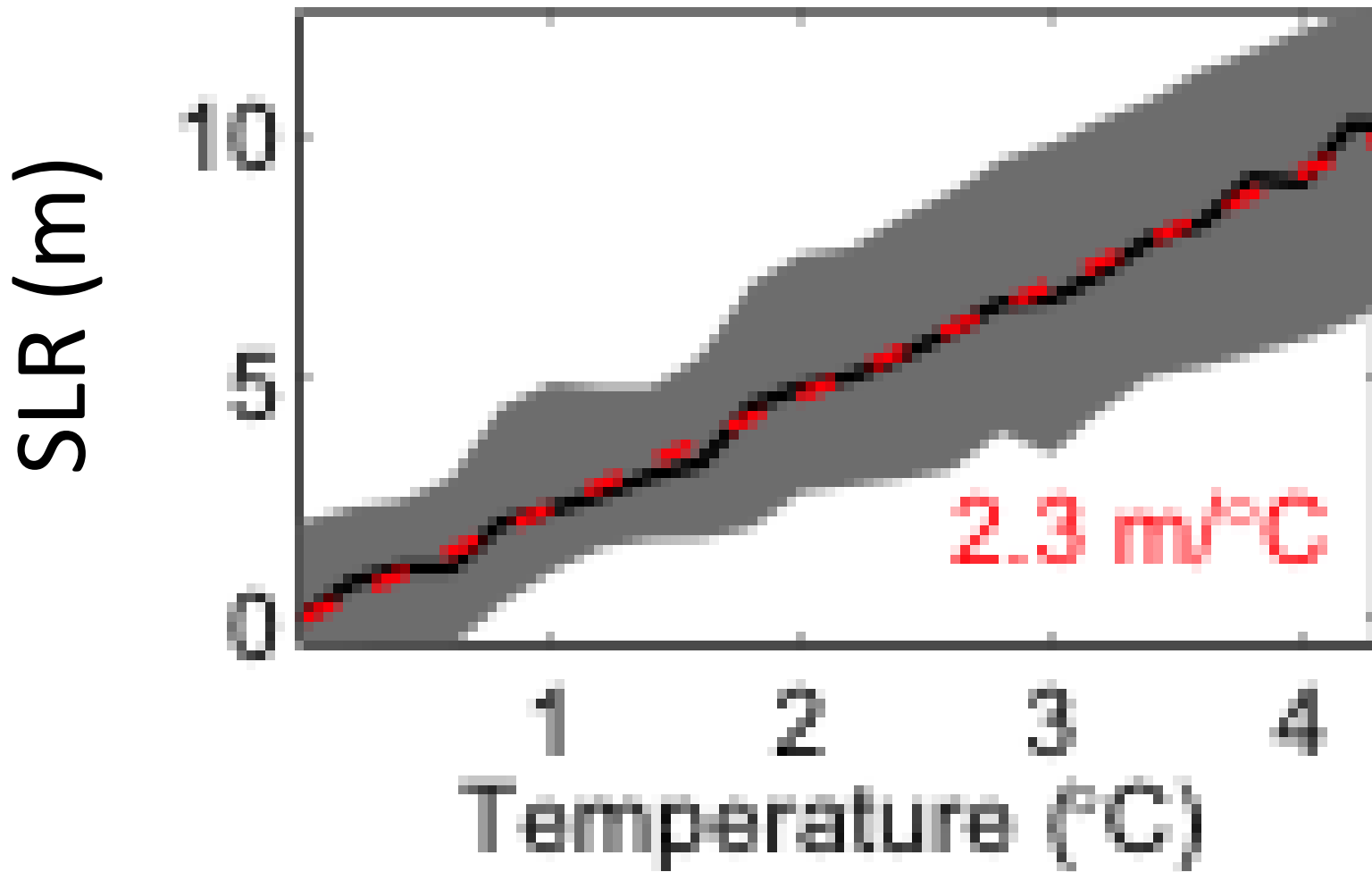
Orangeburg Scarp, James River, Virginia

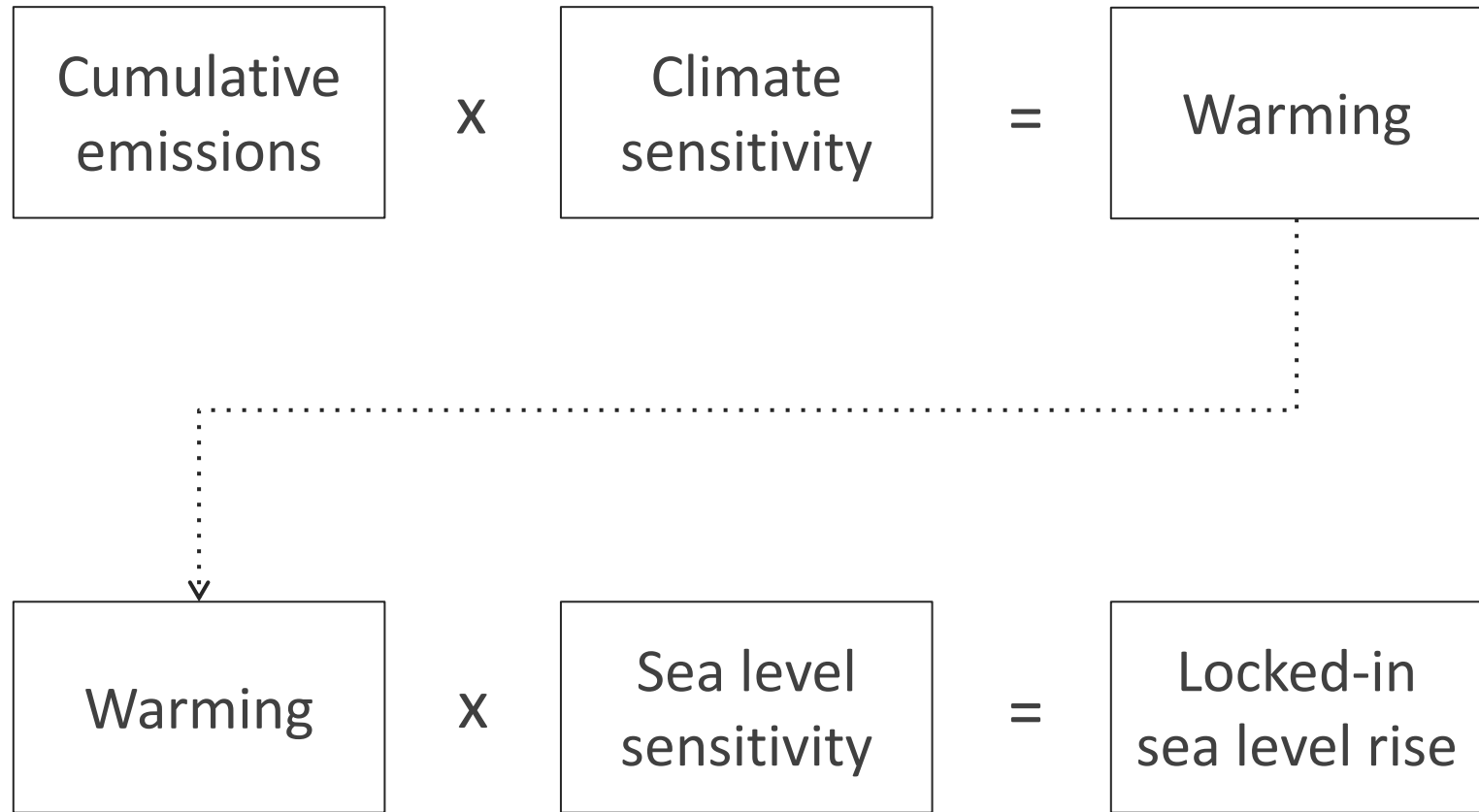
Photo: Harry Dowsett (USGS) via Science

Lock-in relationship: time-indefinite

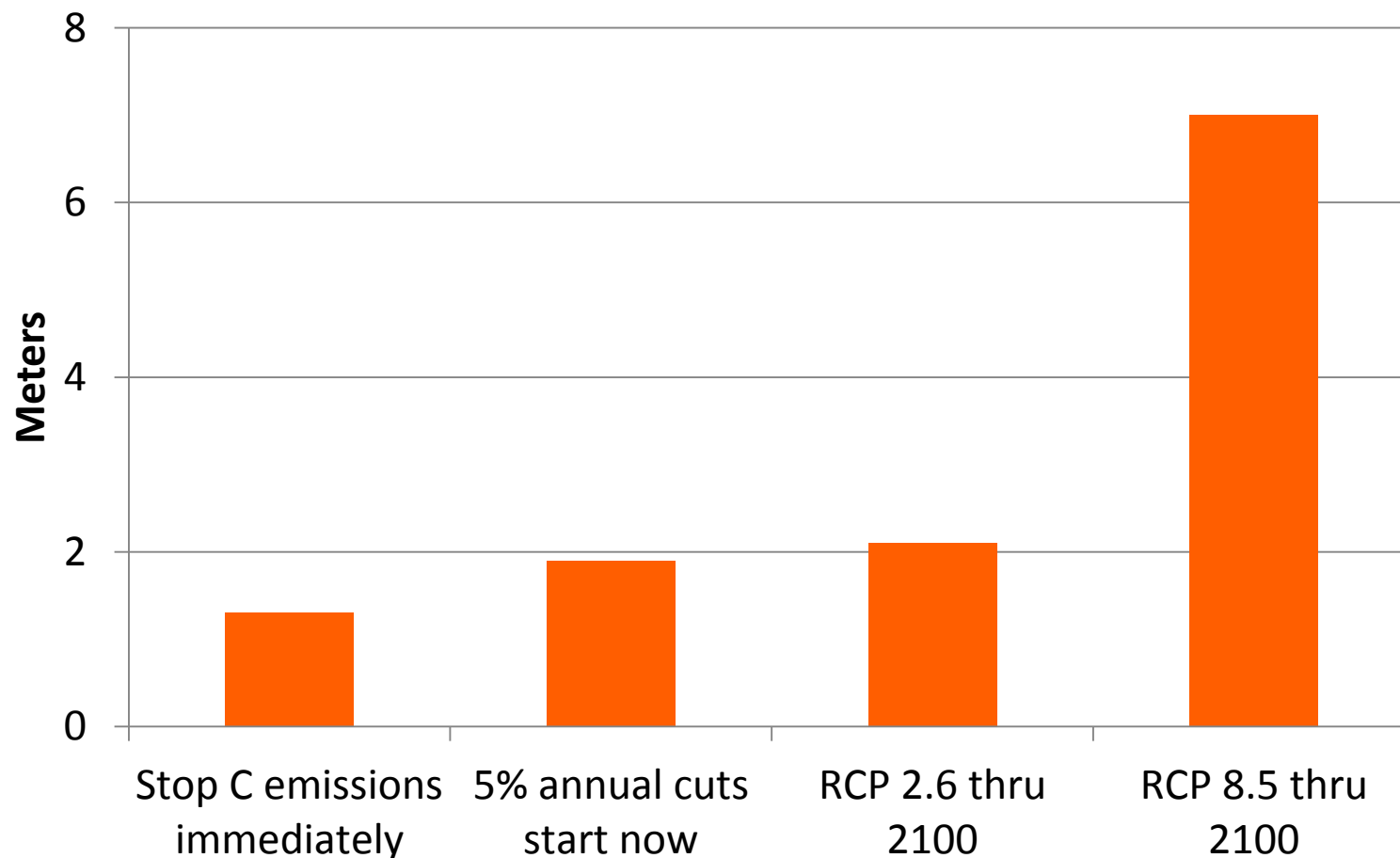


Lock-in relationship: by 2000 yrs

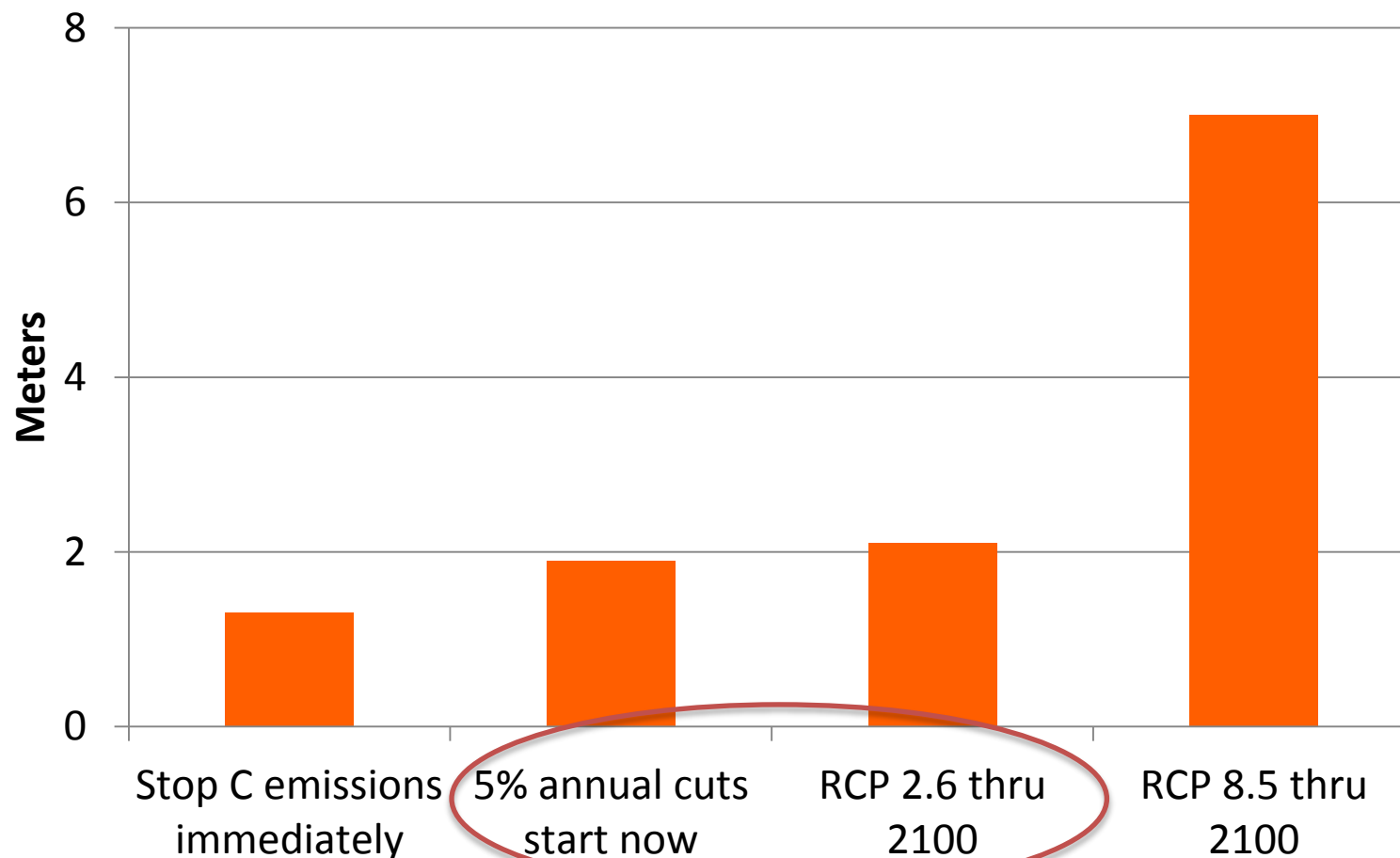




Locked-in SLR by scenario (by 2ky)



Locked-in SLR by scenario (by 2ky)



Sea level rise analysis by CLIMATE CO CENTRAL

SUBMERGENCE RISK MAP

Type any place (city, etc.)

WHAT COULD FLOOD AND WHEN?

Florida, Duval County, Pensacola,
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8

**WATER
LEVEL**
in feet

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② About & Terms

2 Levee

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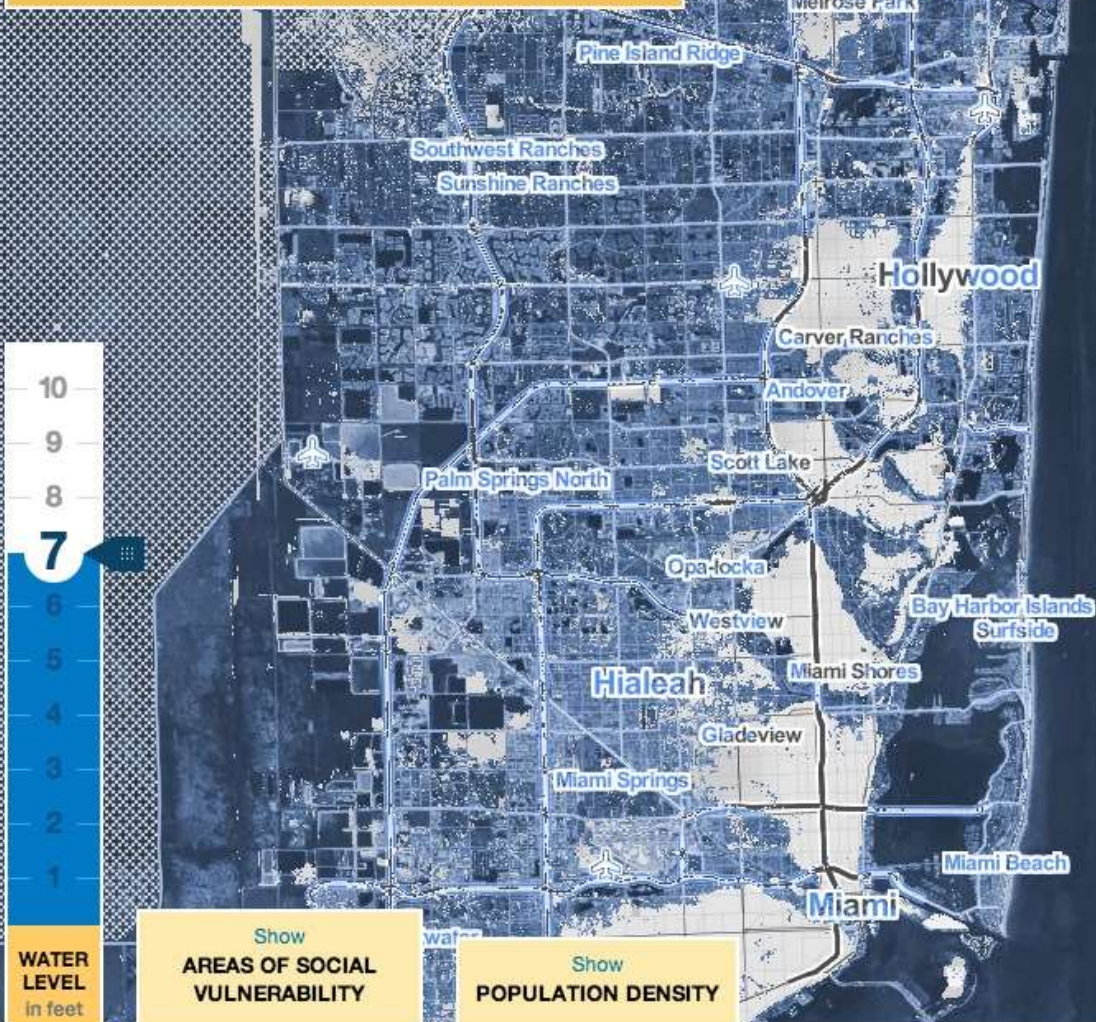
SUBMERGENCE RISK MAP


Type any place (city, etc.)




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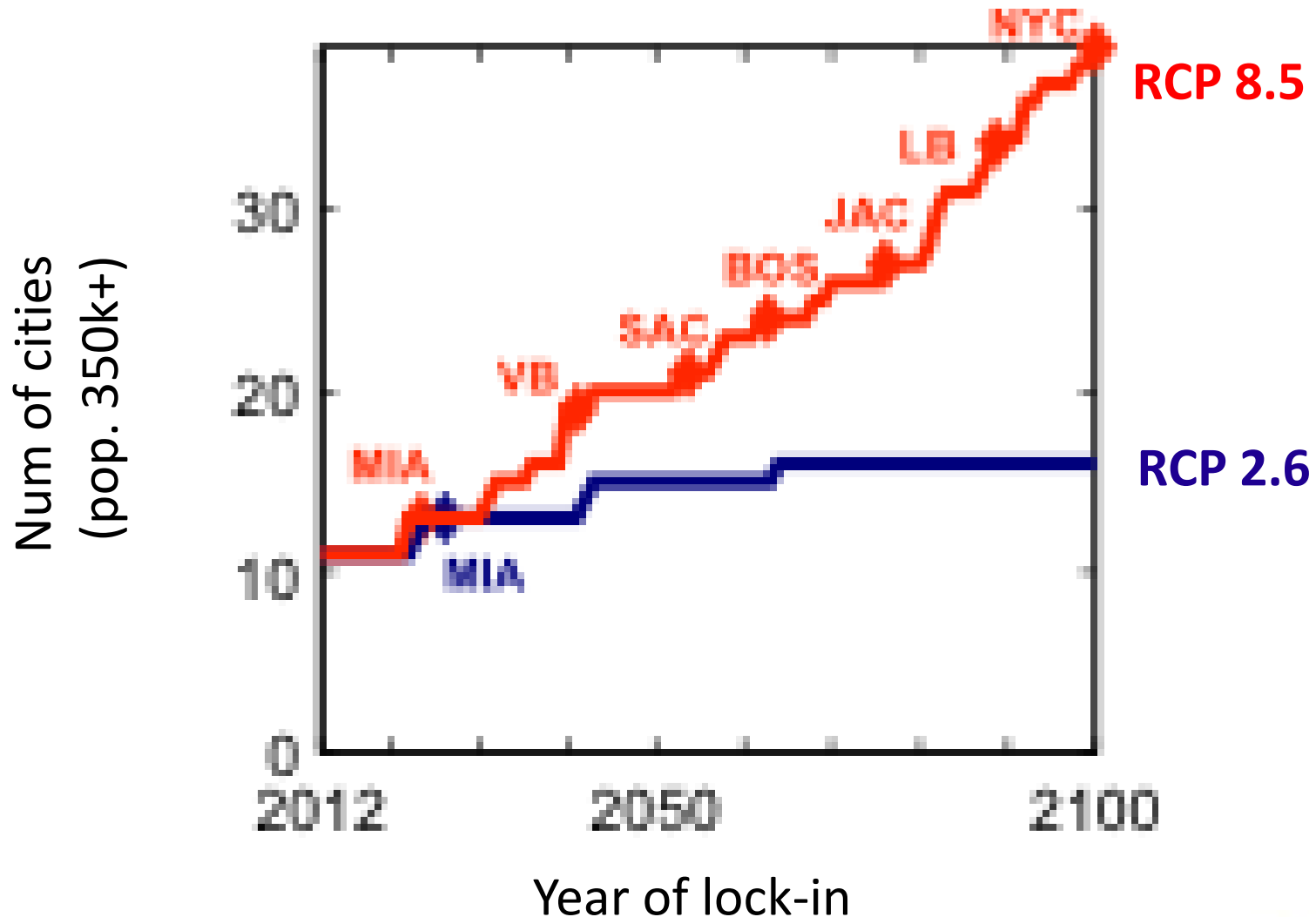
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 SE_Florida_Resilient_....pdf

Large cities locking in to $>1/4$ below tide



Which legacy?

Swift carbon cuts

Business as usual



Nickolay Lamm

Based on recent scientific projections. Carbon emissions today lock in future sea-level rise.

Contact info

Ben Strauss

bstrauss@climatecentral.org

<http://sealevel.climatecentral.org>