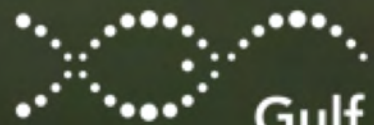


An aerial photograph of a coastal town. In the foreground, a sandy beach meets the ocean. To the right, a large, mostly empty parking lot is visible. The middle ground is filled with residential houses and buildings. In the background, a large body of water, likely a bay or harbor, stretches towards the horizon under a clear sky.

# Sea Level Rise

Our Changing Coastline and Community



**Gulf of Maine  
Research Institute**

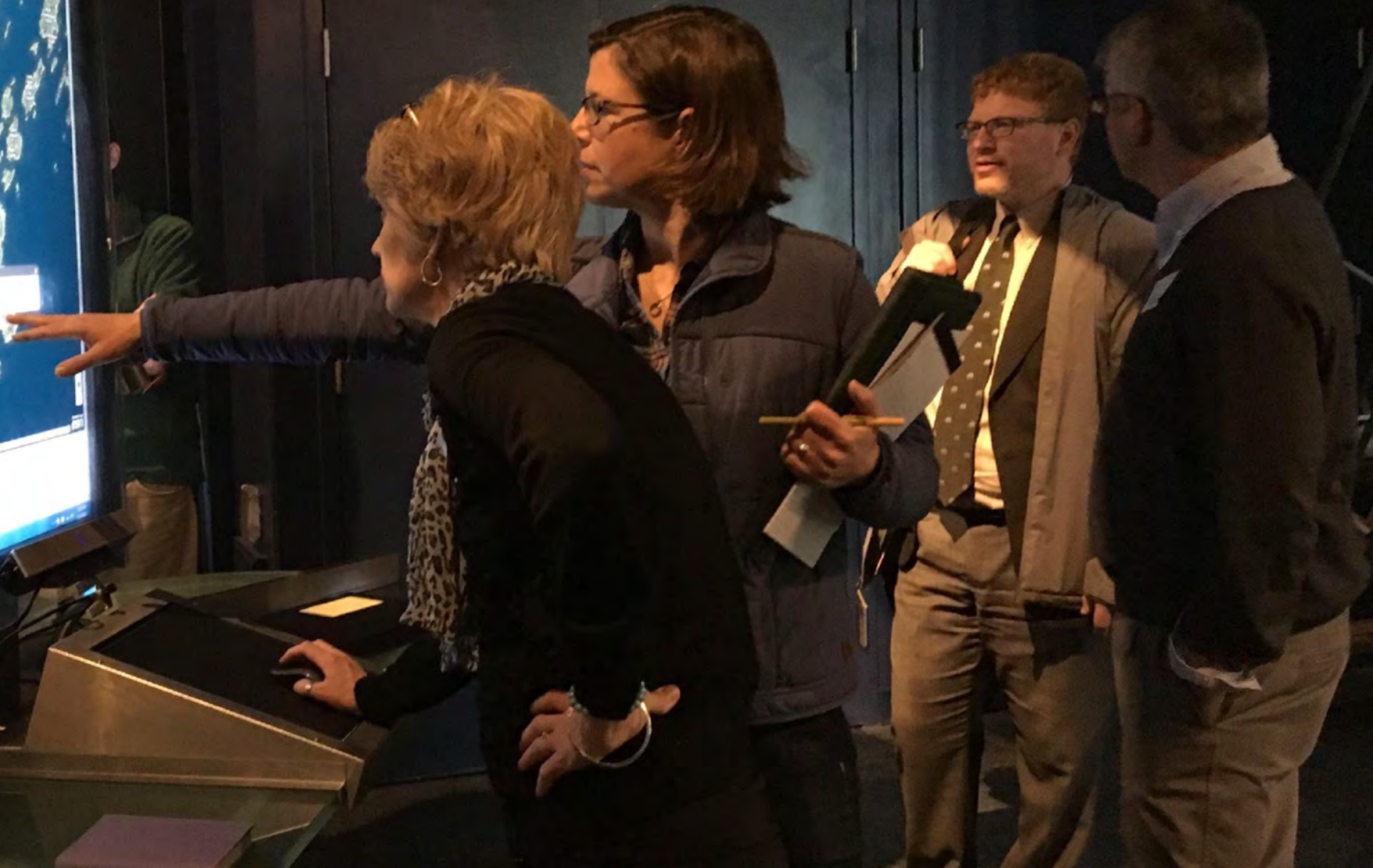
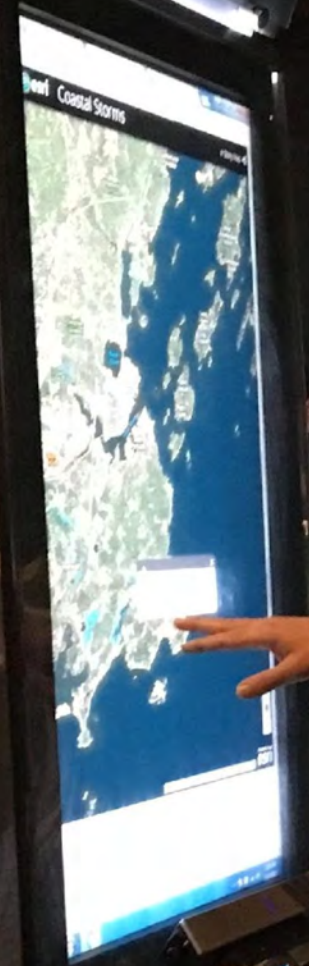
Science. Education. Community.





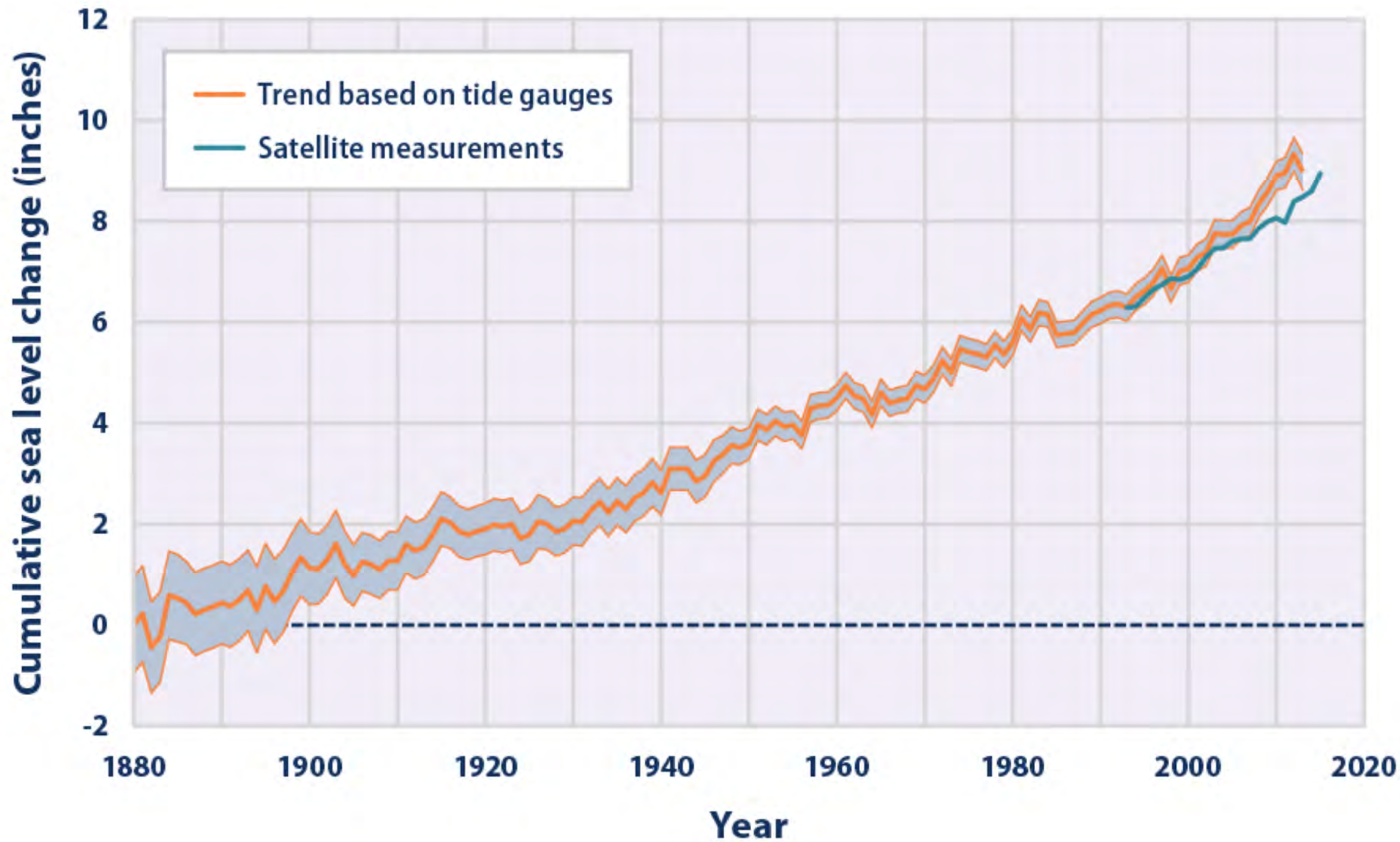


... by  
Charitable Foundation



An aerial photograph of a coastal town and harbor. In the foreground, two tugboats with red and white stripes are moving across the blue water, leaving white wakes. The middle ground shows a busy harbor with numerous sailboats and a large white building with a sign that reads "REBEL SERVICES INC.". The background features a densely packed residential area on a hillside under a clear blue sky.

# Sea Level Rise in Maine



**What impacts of sea level rise  
have you already seen?**



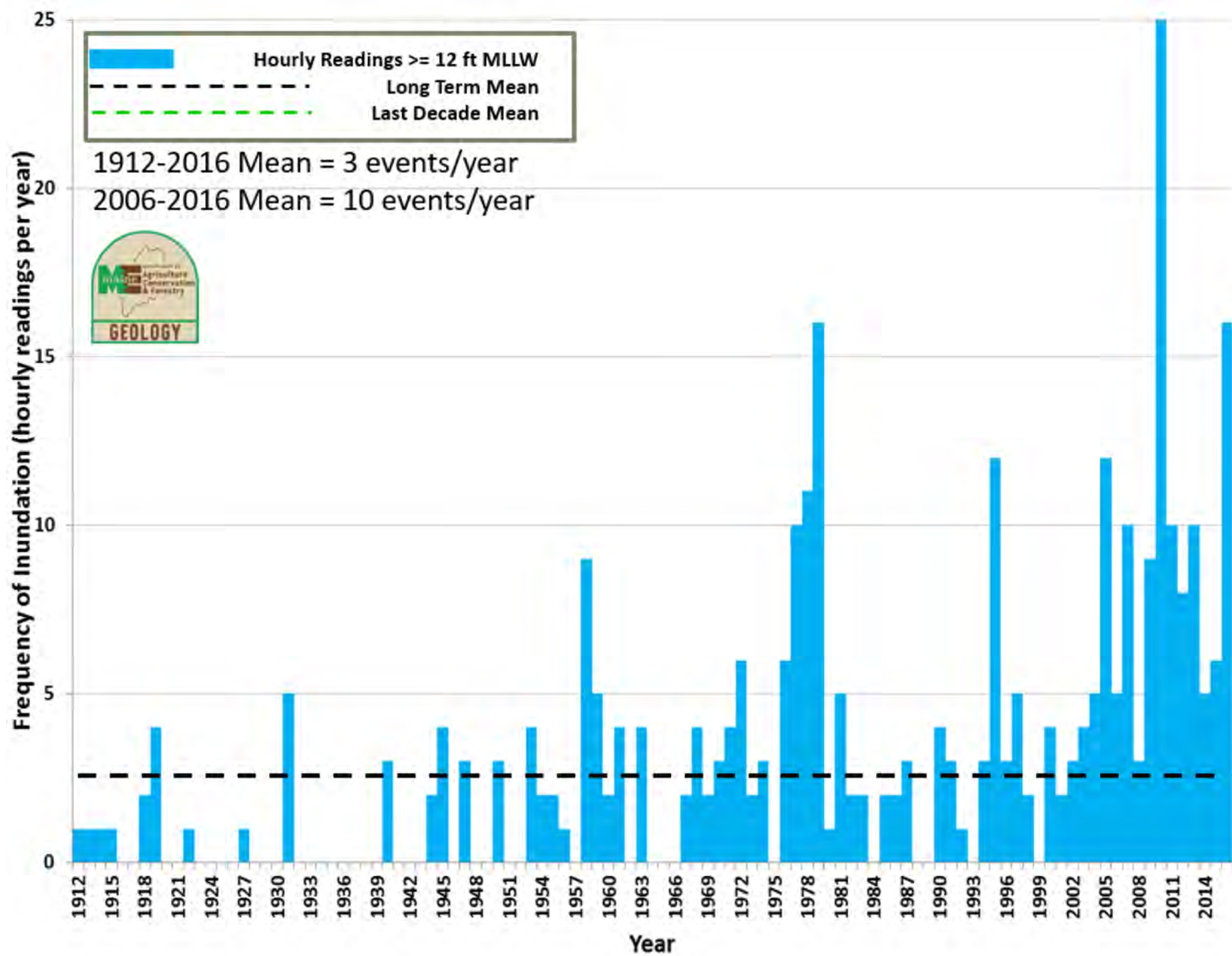


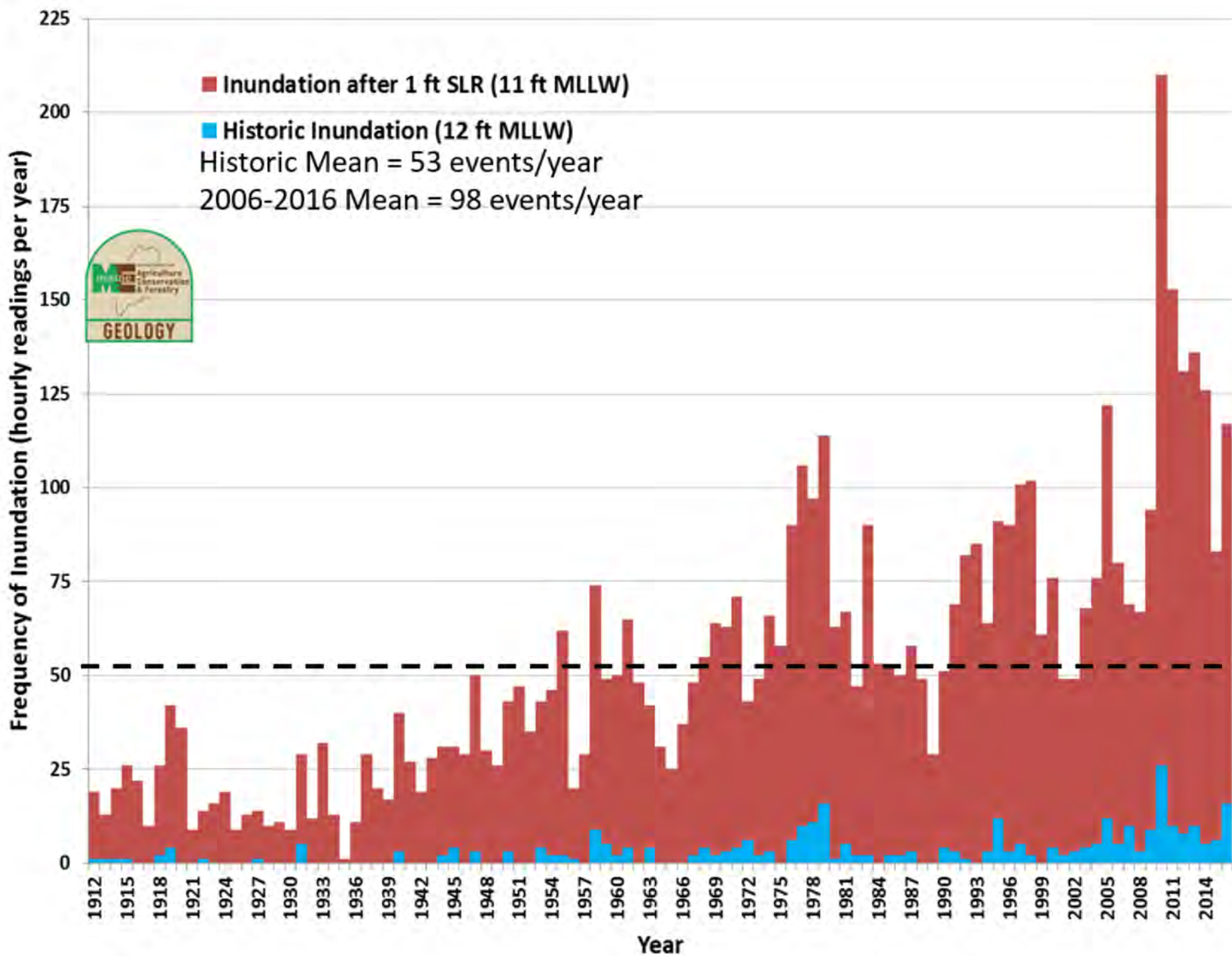


Franklin St

KERWIN  
for  
COUNCIL 1

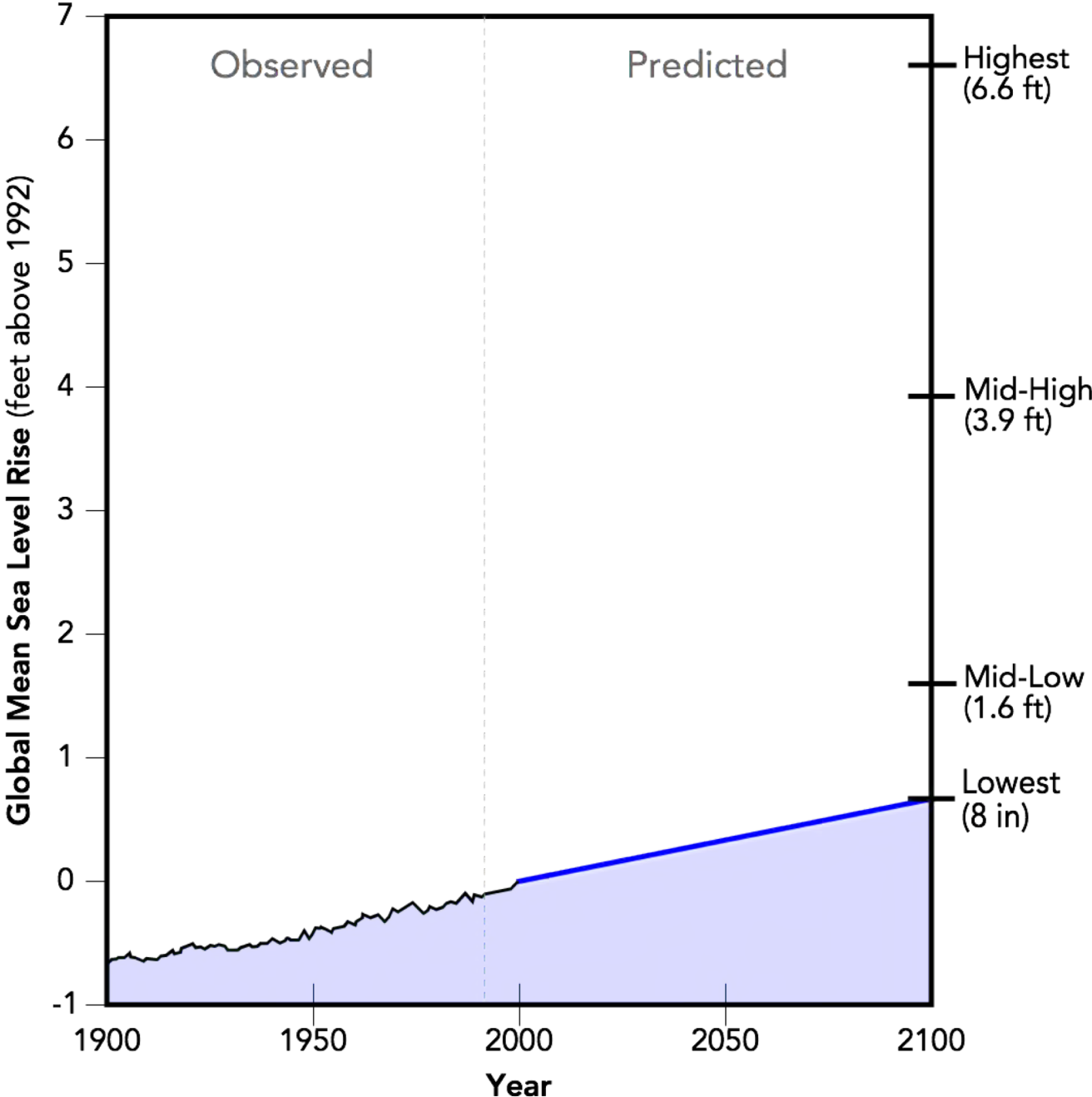






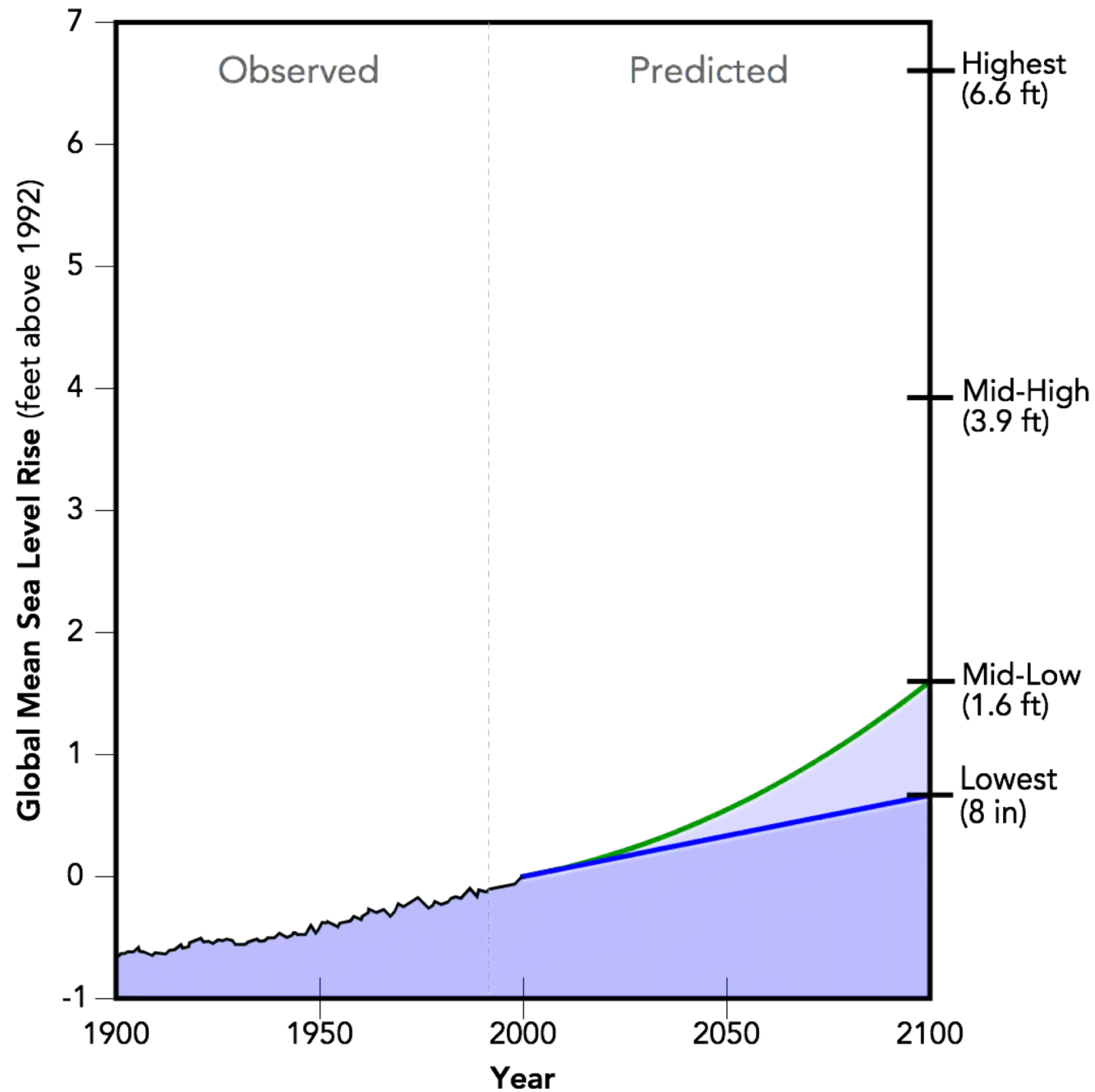
**How much might sea levels rise?**

# Sea Level Rise Scenarios, NOAA 2012



Historical Rate of SLR

# Sea Level Rise Scenarios, NOAA 2012

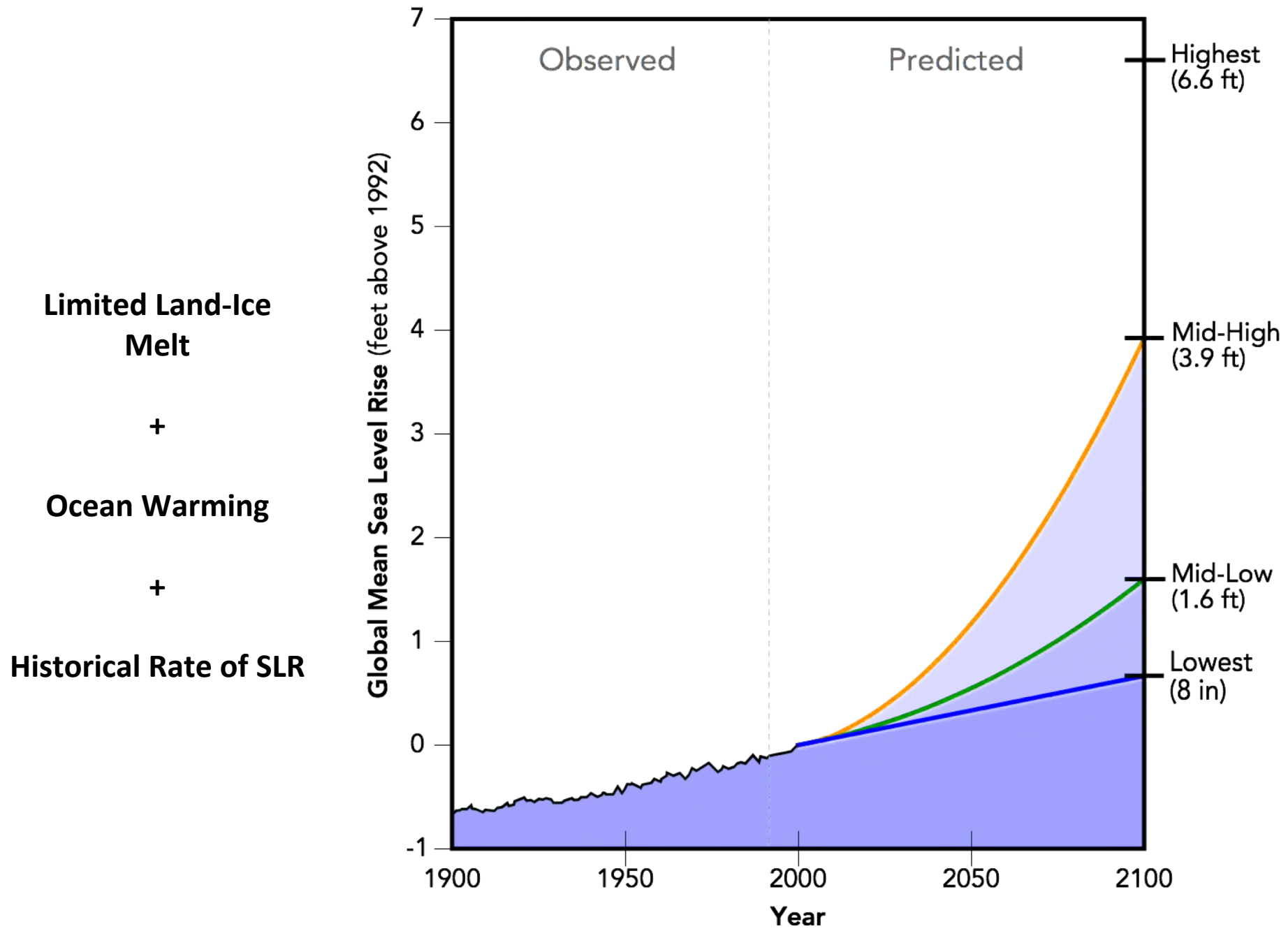


**Ocean Warming**

+

**Historical Rate of SLR**

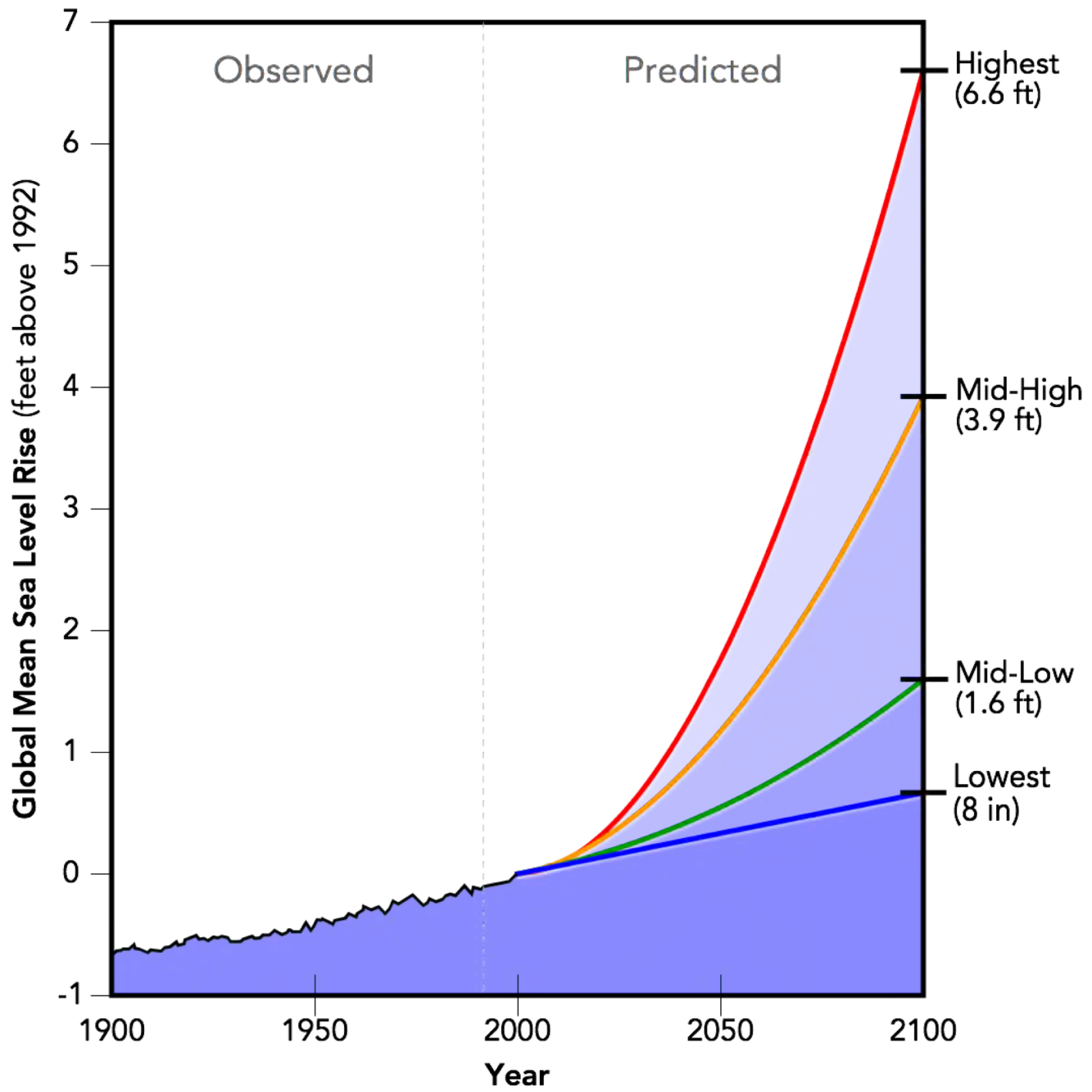
# Sea Level Rise Scenarios, NOAA 2012



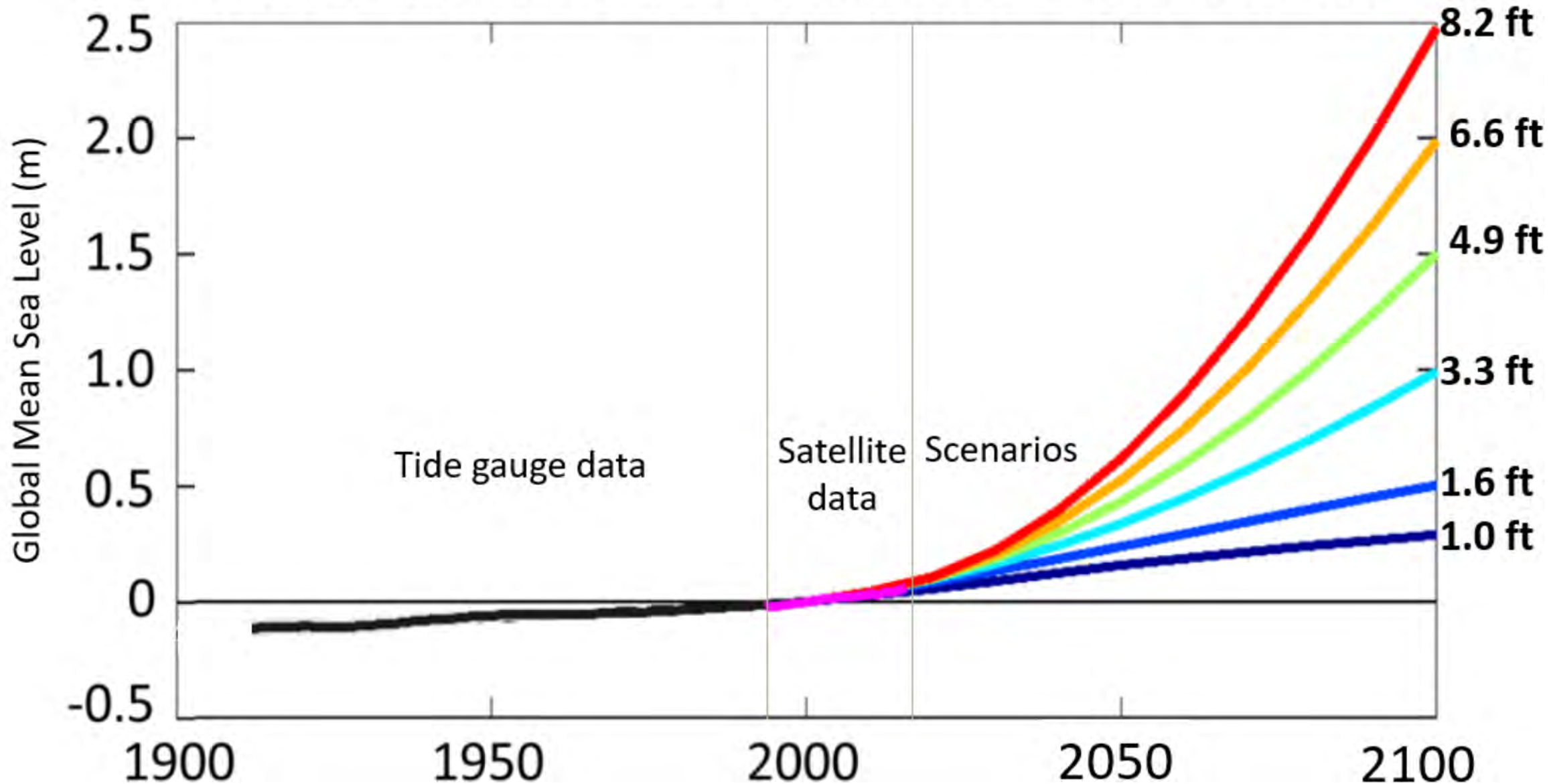


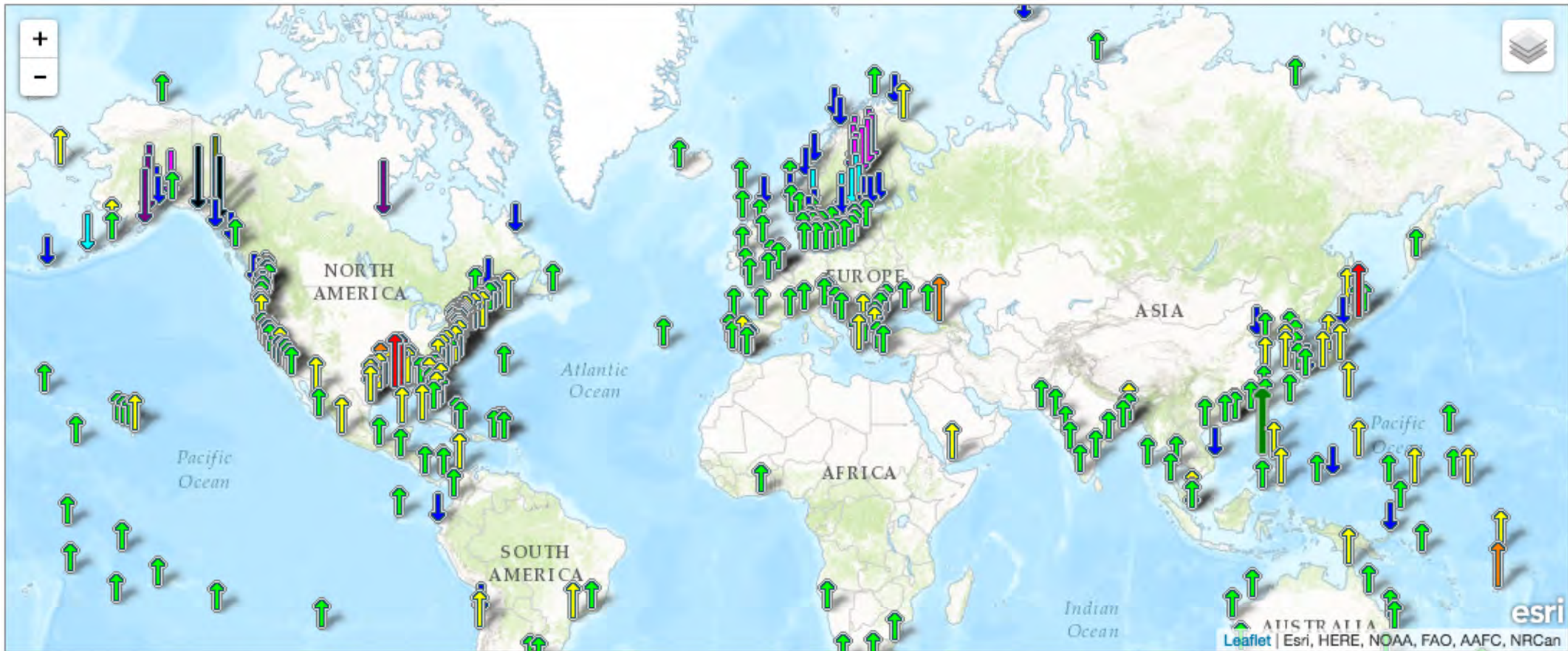
# Sea Level Rise Scenarios, NOAA 2012

**Maximum Land-Ice Melt**  
+  
**Ocean Warming**  
+  
**Historical Rate of SLR**

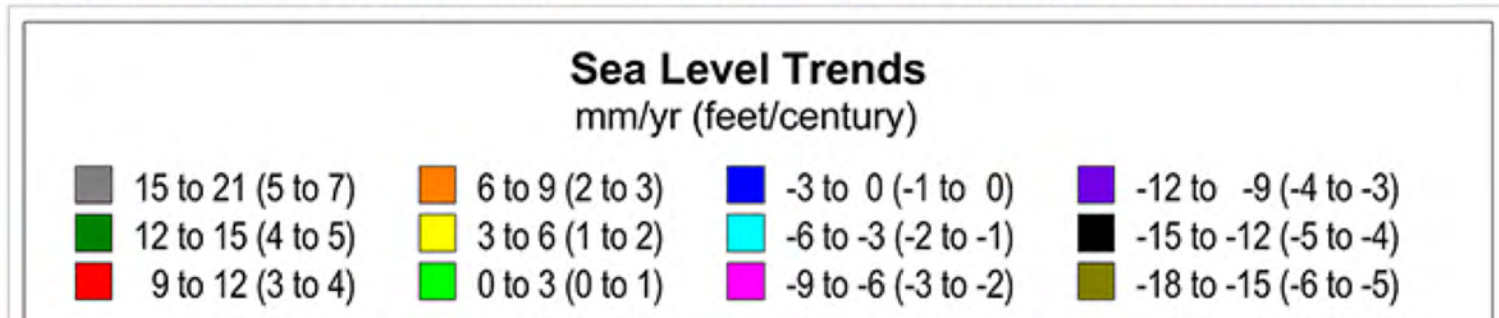


# Global Mean Sea Level Scenarios to 2100

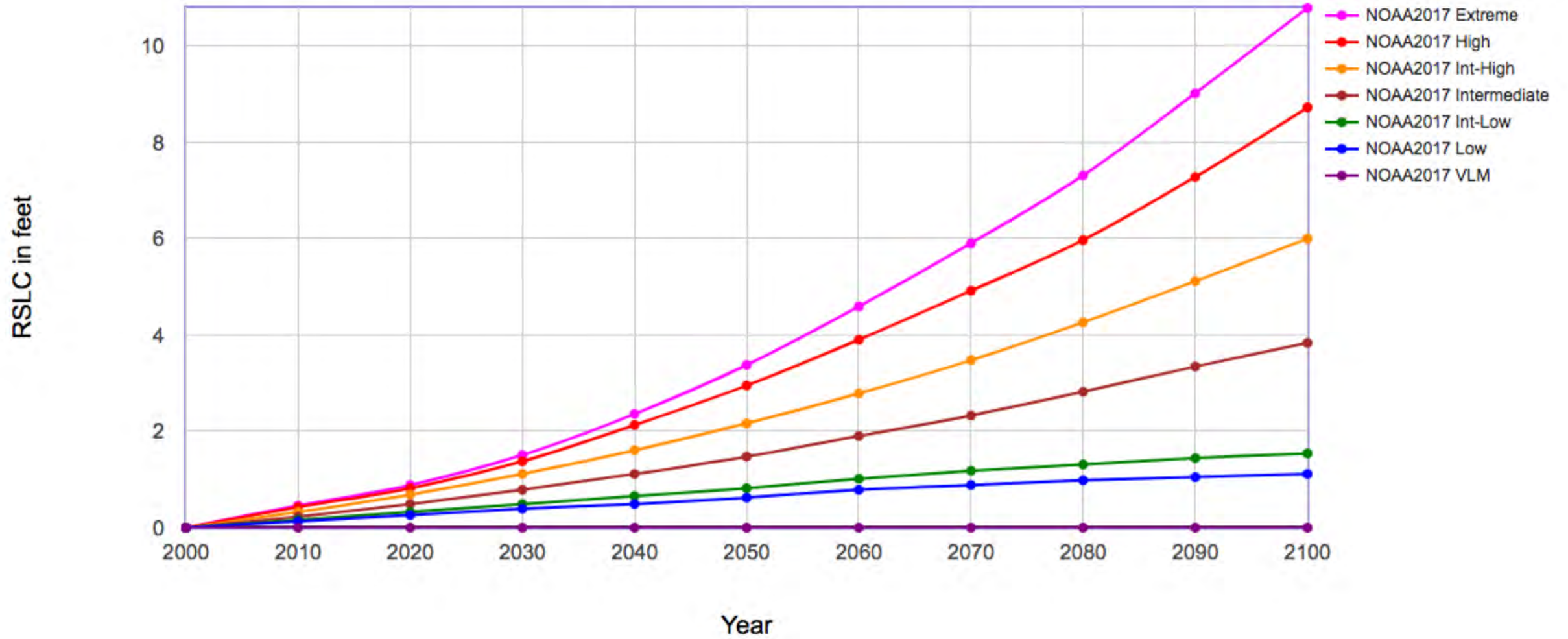




The map above illustrates regional trends in sea level, with arrows representing the direction and magnitude of change. Click on an arrow to access additional information about that station.

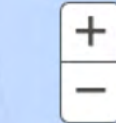


NOAA et al. 2017 Relative Sea Level Change Scenarios for : PORTLAND

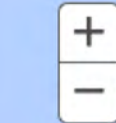


How will Sea Level Rise impact  
your Community?

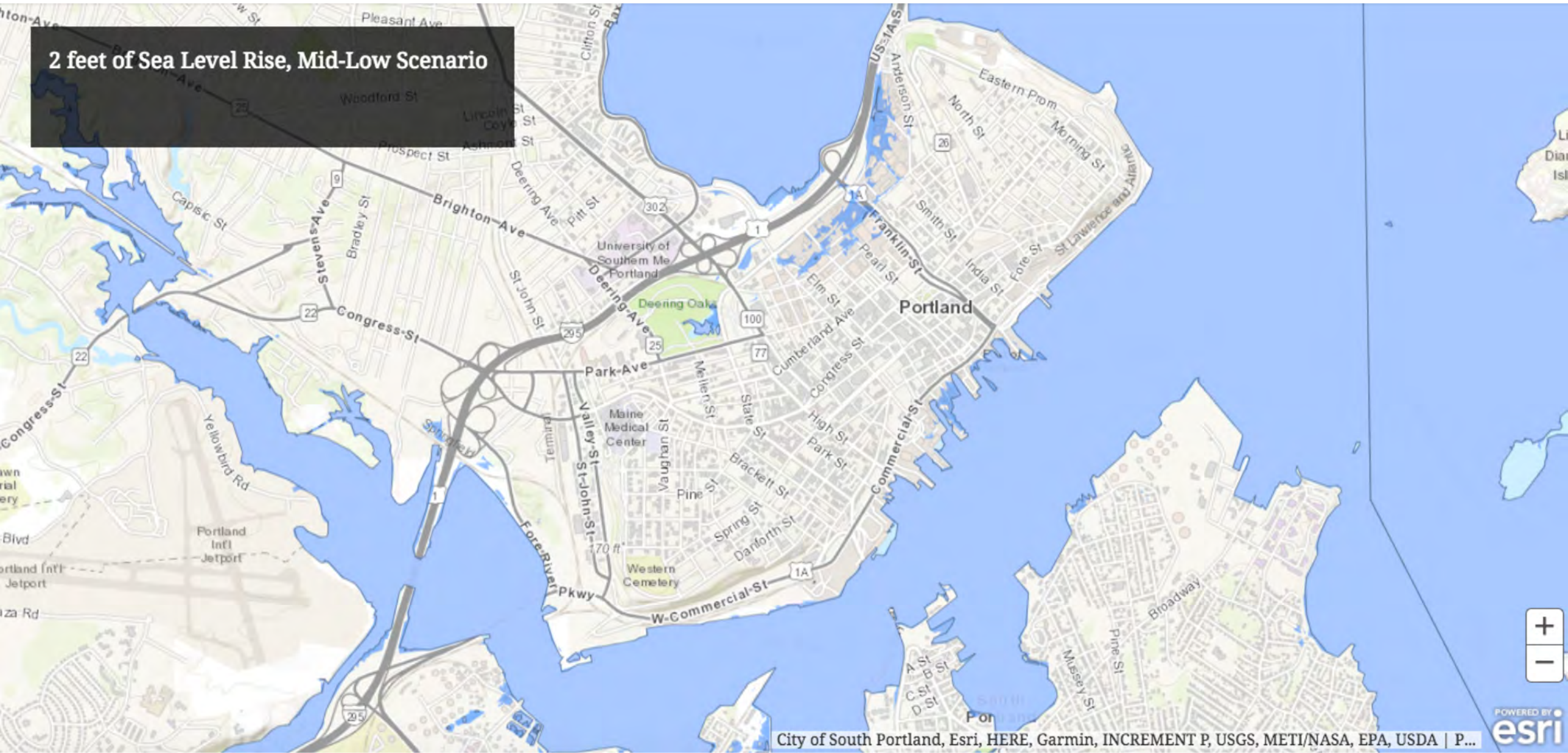
Highest Annual Tide of 2015, 11.8 feet



1 foot of Sea Level Rise, Lowest Scenario

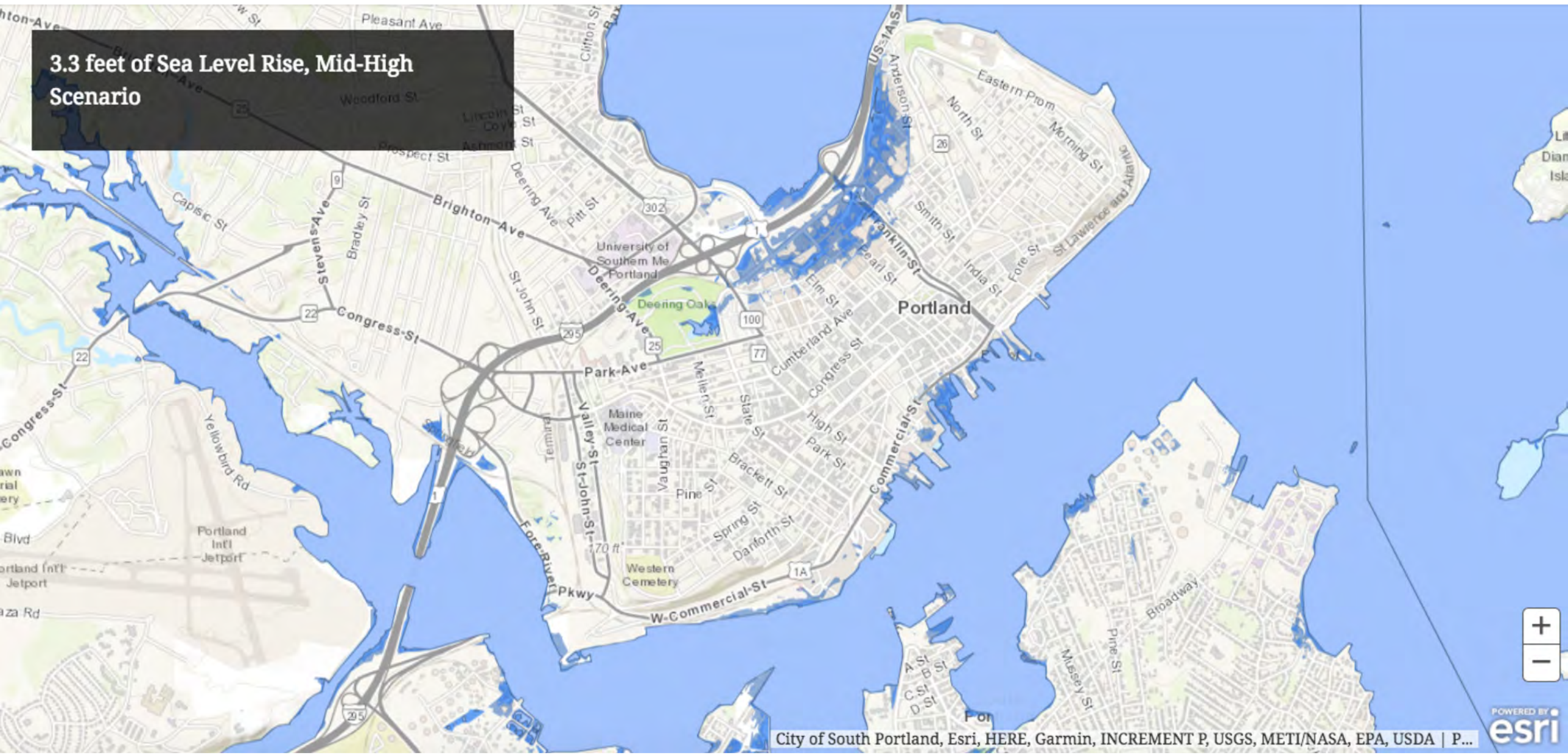


## 2 feet of Sea Level Rise, Mid-Low Scenario





**3.3 feet of Sea Level Rise, Mid-High Scenario**



# 6 feet of Sea Level Rise, Highest Scenario



How can we prepare our  
communities to be resilient?

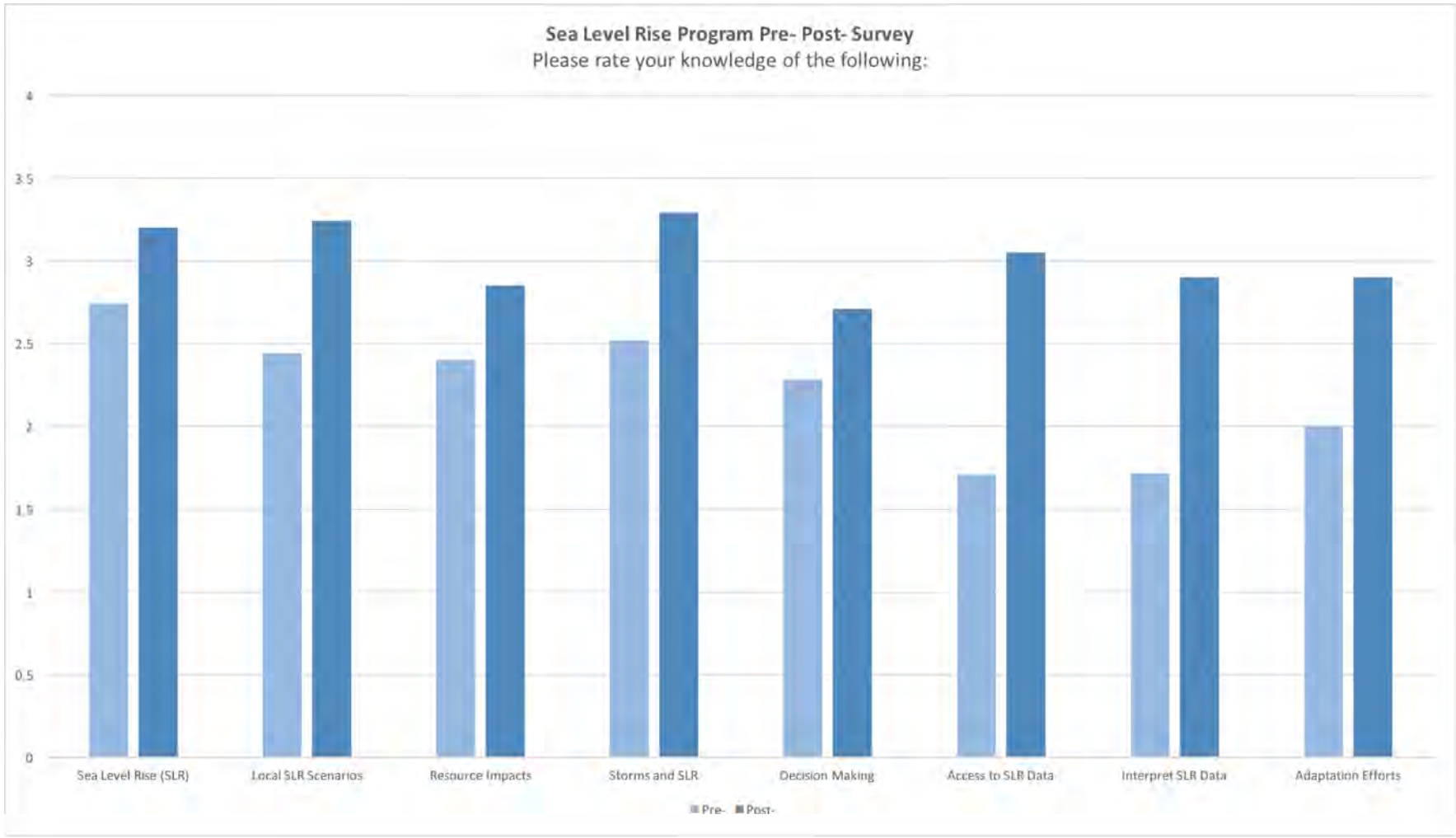
**Sea Level Rise Program Pre- Post-Survey**  
Please rate your knowledge of the following:

A great deal  
of knowledge

Some  
knowledge

Little  
knowledge

No  
knowledge



Pre- Post-

Climate adaptation is \_\_\_\_\_  
because \_\_\_\_\_.

Climate adaptation is a process  
because it takes a village.

# Sea Level Rise Event Dates

Wednesday, April 11<sup>th</sup> 6:30-8

Tuesday, April 24<sup>th</sup> 6:30-8

Tuesday, May 15<sup>th</sup> 1-2:30

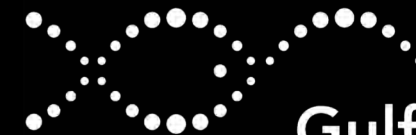
Thursday, May 17<sup>th</sup> 6:30-8

~ visit <http://gmri.org/sea-level-rise> to register

~ for more information:  
<https://www.gmri.org/news/blog/gulf-maine-explained-sea-level-rise>

Thank you!

Gayle Bowness [gayle@gmri.org](mailto:gayle@gmri.org)



**Gulf of Maine  
Research Institute**

Science. Education. Community.