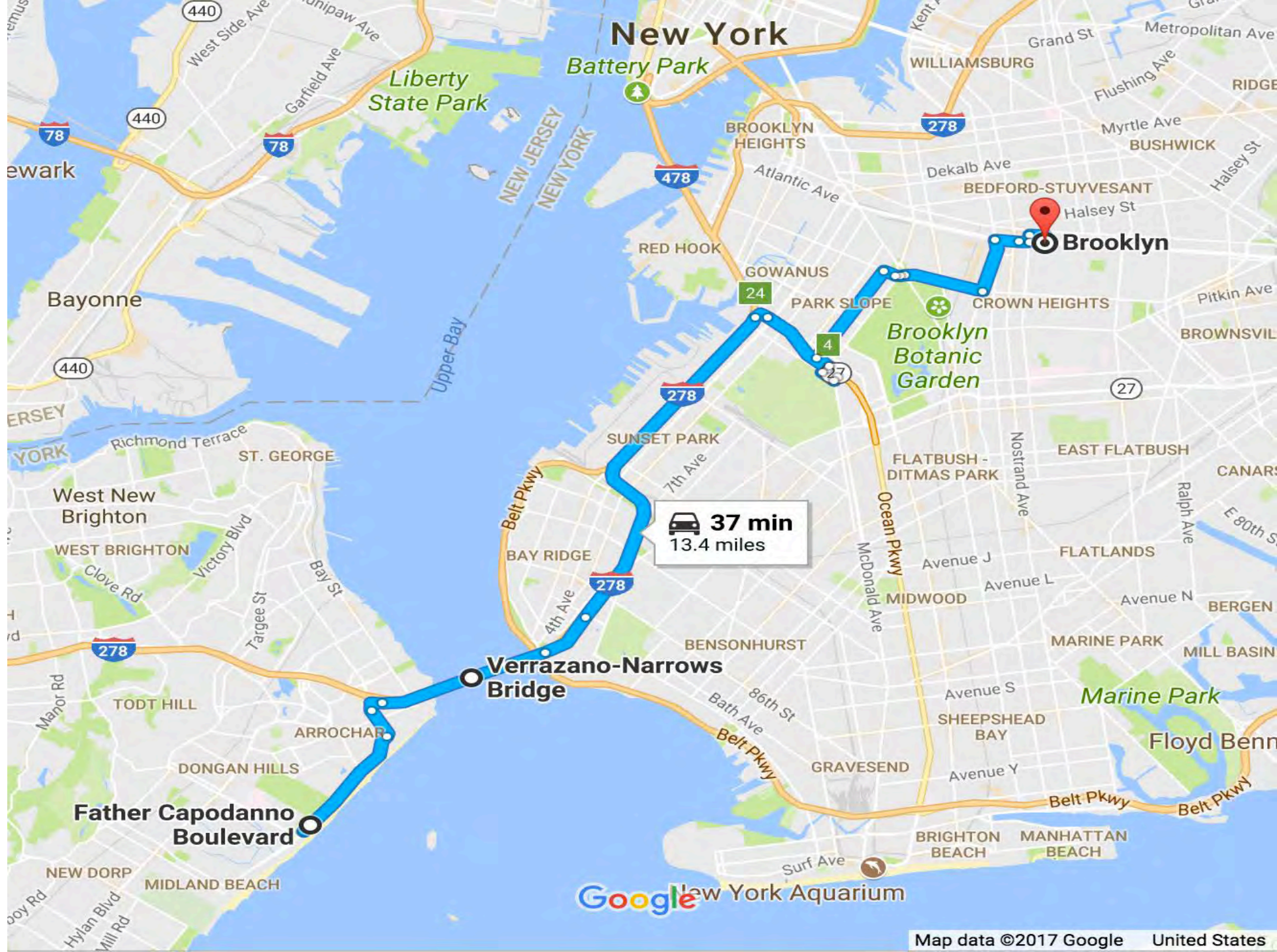



# HURRICANE SANDY



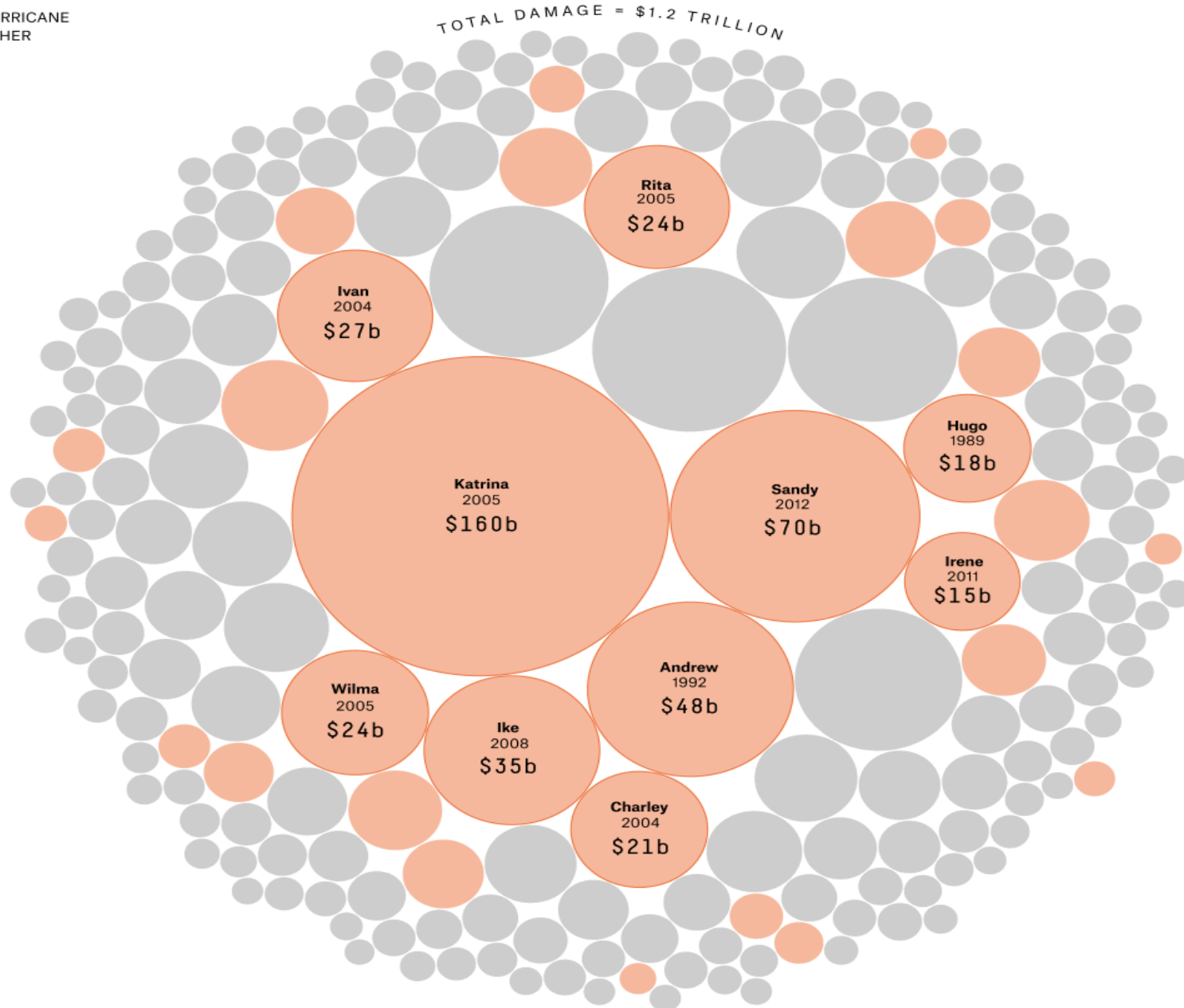
 **37 min**  
13.4 miles



# The economic impact of major recent disasters

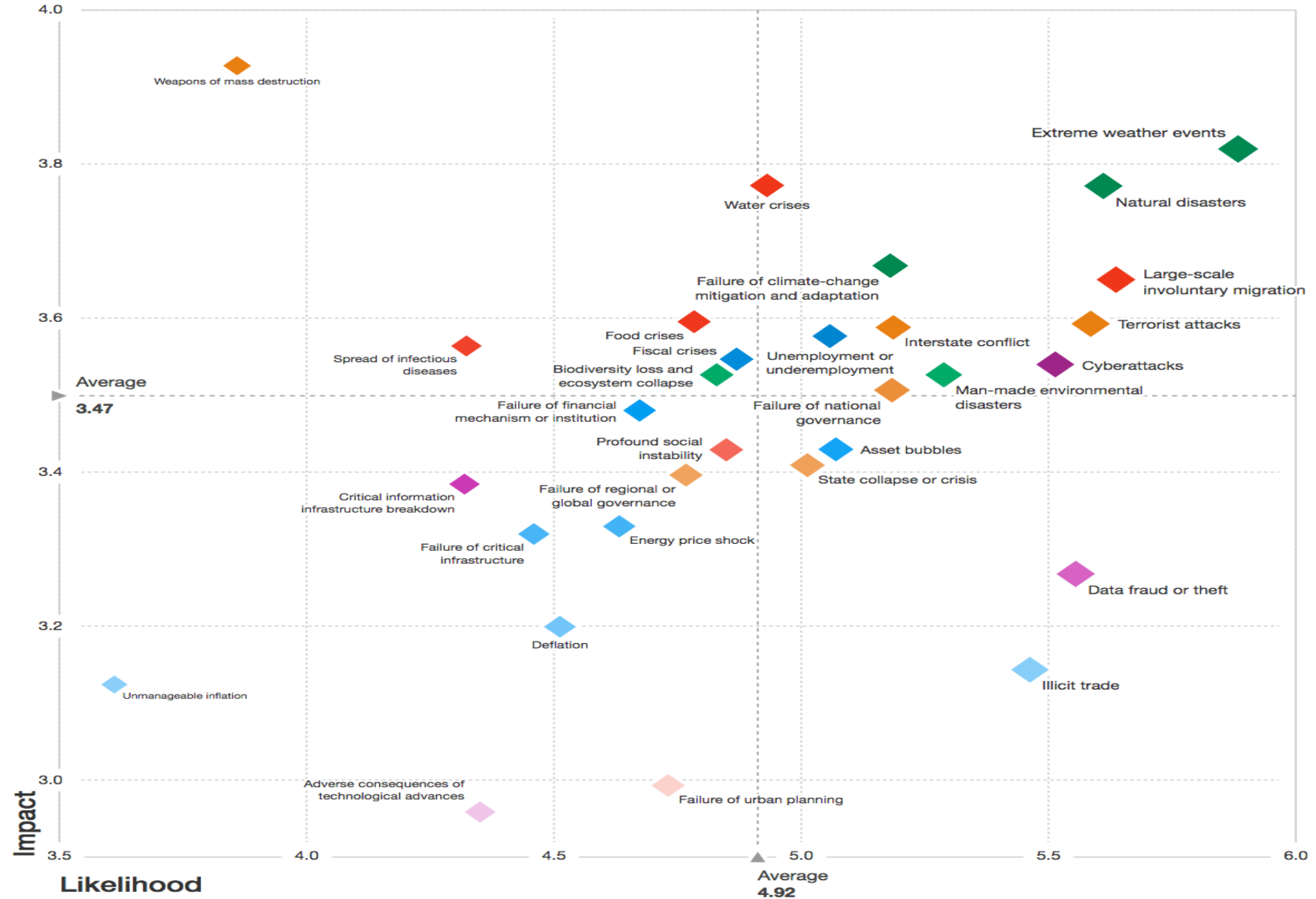
Losses from 212 weather and climate events from 1980 through July 7, 2017, that caused at least \$1 billion in damage. Values are in 2017 dollars.

- HURRICANE
- OTHER



# The Global Risks Landscape 2017

What is the impact and likelihood of global risks?







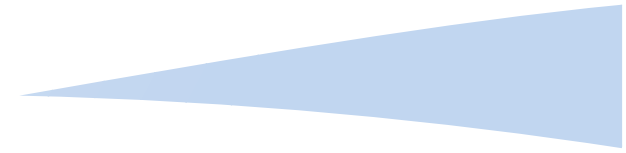












# Nuisance Flooding at Tybee Island, Georgia

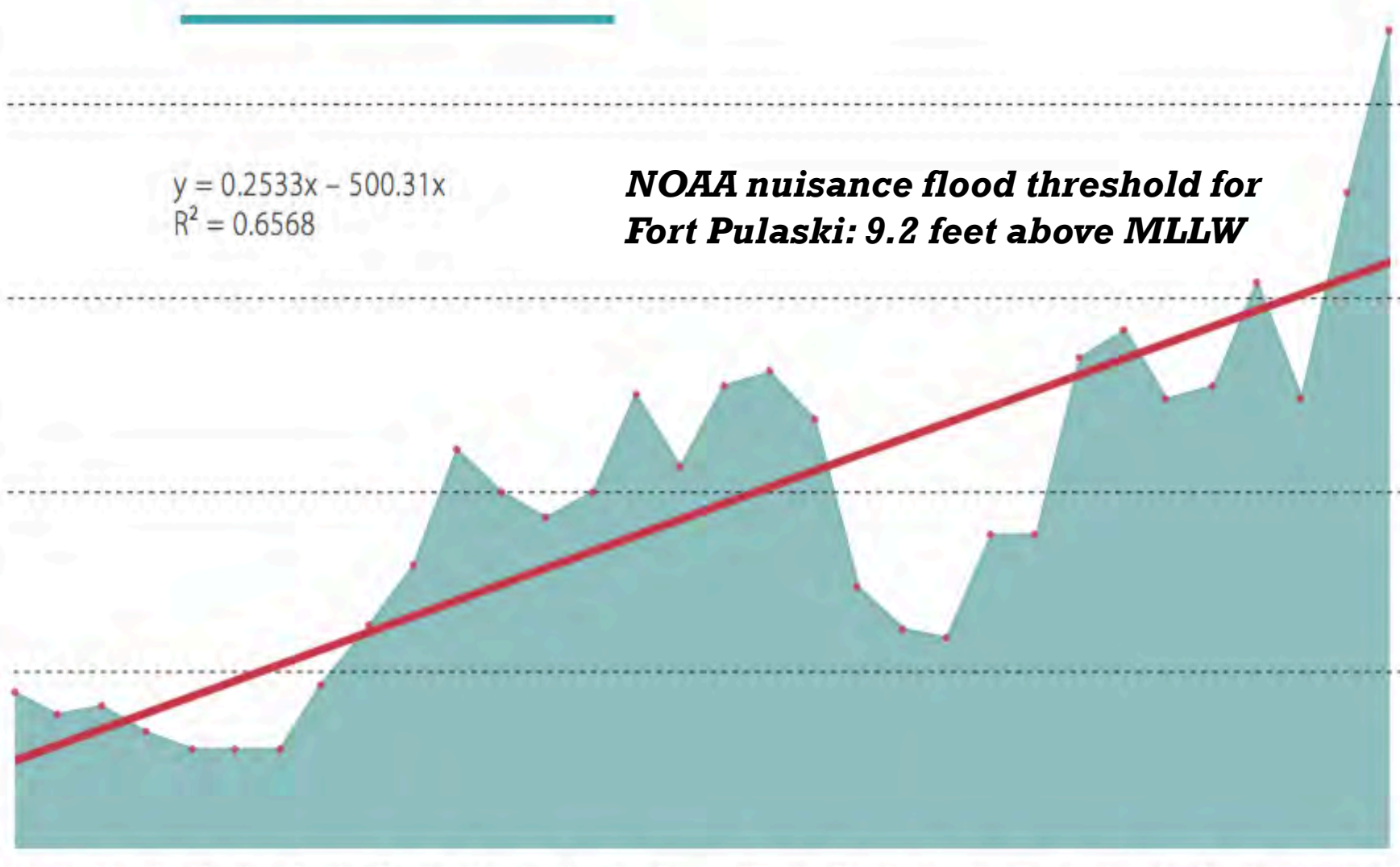
ANNUAL NUISANCE FLOODS (5-Year Average)

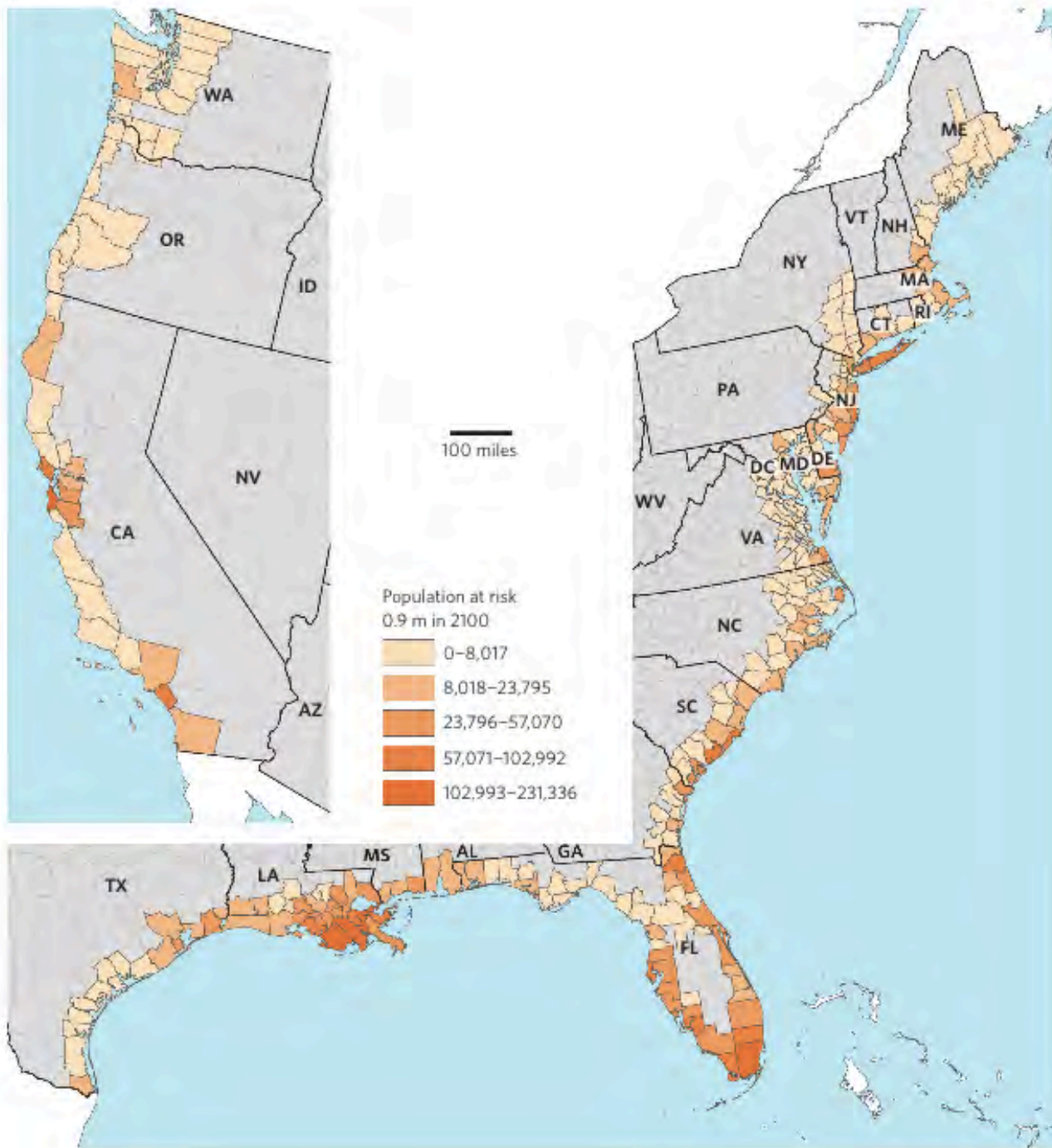
15  
12  
9  
6  
3  
0

$$y = 0.2533x - 500.31x$$
$$R^2 = 0.6568$$

***NOAA nuisance flood threshold for Fort Pulaski: 9.2 feet above MLLW***

1982 — 1984 — 1986 — 1988 — 1990 — 1992 — 1994 — 1996 — 1998 — 2000 — 2003 — 2005 — 2007 — 2009 — 2011 — 2013









SCENARIO	PROJECTED SEA-LEVEL RISE BY 2060*
High	31 inches
Intermediate	14 inches
Low	6 inches

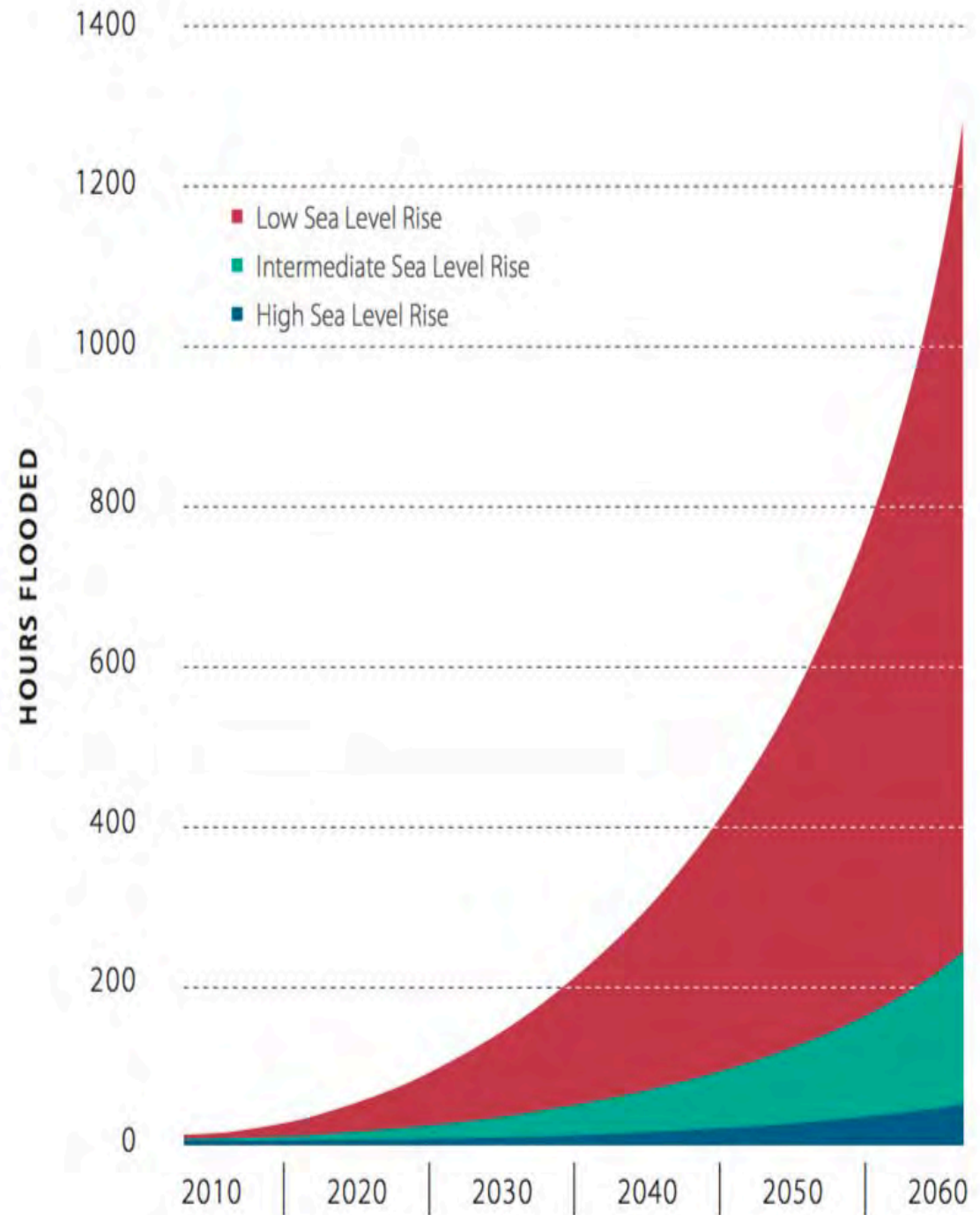
**TABLE 3.1:** 2060 SEA-LEVEL RISE SCENARIOS FOR THE TYBEE ISLAND SEA-LEVEL RISE ADAPTATION PLAN. THE ASSUMED BASE YEAR FOR SEA-LEVEL IS 2010<sup>38</sup>



# US HIGHWAY 80

Annual time flooded:

- Low SLR:  
~50 hours
- Intermediate SLR:  
~230 hours
- High SLR:  
~1,250 hours










# U.S. Climate Resilience Toolkit

Get Started

**Taking Action**

Tools

Taking Action > Show Don't Tell: Visualizing Sea Level Rise to Set Planning Priorities >



## Show Don't Tell: Visualizing Sea Level Rise to Set Planning Priorities

City officials in Tybee Island, Georgia, recognized sea level rise as a growing problem for their community. Visualizations from a sea level rise viewer helped them raise awareness of the city's vulnerabilities and set priorities for adaptation efforts.





# ST. MARYS GEORGIA

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## Sea Grant

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### Sea Grant and UGA Help Communities Plan for Sea Level Rise



Georgia Sea Grant, North Carolina Sea Grant and the University of Georgia are launching a project to help St. Marys, GA and Hyde County, N.C. plan for sea level rise, increased coastal





**The Tybee Island Sea Level  
Rise Adaptation Plan**

enabling savings of **\$3 million**

in flood control benefits

This includes a **discount of \$725,639**

in flood insurance for property  
owners on the island.

---

**The City of St. Marys**

*achieved a CRS rating of 7, resulting in an*

*average **savings of \$107 per household***

*in flood insurance premiums.*

*This equals a city-wide*

**savings of**

**\$87,740 annually**