HURRICANE SANDY
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.

TOTAL DAMAGE = $1.2 TRILLION

- Katrina 2005: $180b
- Sandy 2012: $70b
- Wilma 2005: $24b
- Ike 2008: $35b
- Charley 2004: $21b
- Hugo 1989: $18b
- Irene 2011: $15b

FiveThirtyEight

SOURCE: NOAA'S NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION
The Global Risks Landscape 2017

What is the impact and likelihood of global risks?

Diagram showing a scatter plot with various global risks plotted on a scale from 0 to 4 for both impact and likelihood, with the average impact and likelihood marked as 3.47 and 4.82, respectively.
NOAA nuisance flood threshold for Fort Pulaski: 9.2 feet above MLLW
<table>
<thead>
<tr>
<th>SCENARIO</th>
<th>PROJECTED SEA-LEVEL RISE BY 2060*</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>31 inches</td>
</tr>
<tr>
<td>Intermediate</td>
<td>14 inches</td>
</tr>
<tr>
<td>Low</td>
<td>6 inches</td>
</tr>
</tbody>
</table>

**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.\(^{38}\)
US HIGHWAY 80

Annual time flooded:

- Low SLR: ~50 hours
- Intermediate SLR: ~230 hours
- High SLR:
  - ~1,250 hours
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 adaption efforts.
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 flooding and other sea level rise-related impacts.
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.

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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**.