

Sea Level Rise, Communities, Preparedness, and Resilience

Sea Level Rise Training
NAACP
Charleston, SC

October 2017



FEMA

Outline

What we know:

Sea Level Rise

Extreme Weather Events

Planning Opportunities

National Flood Insurance Program

FEMA Grant Programs

Public Assistance

Hazard Mitigation Assistance

Tips



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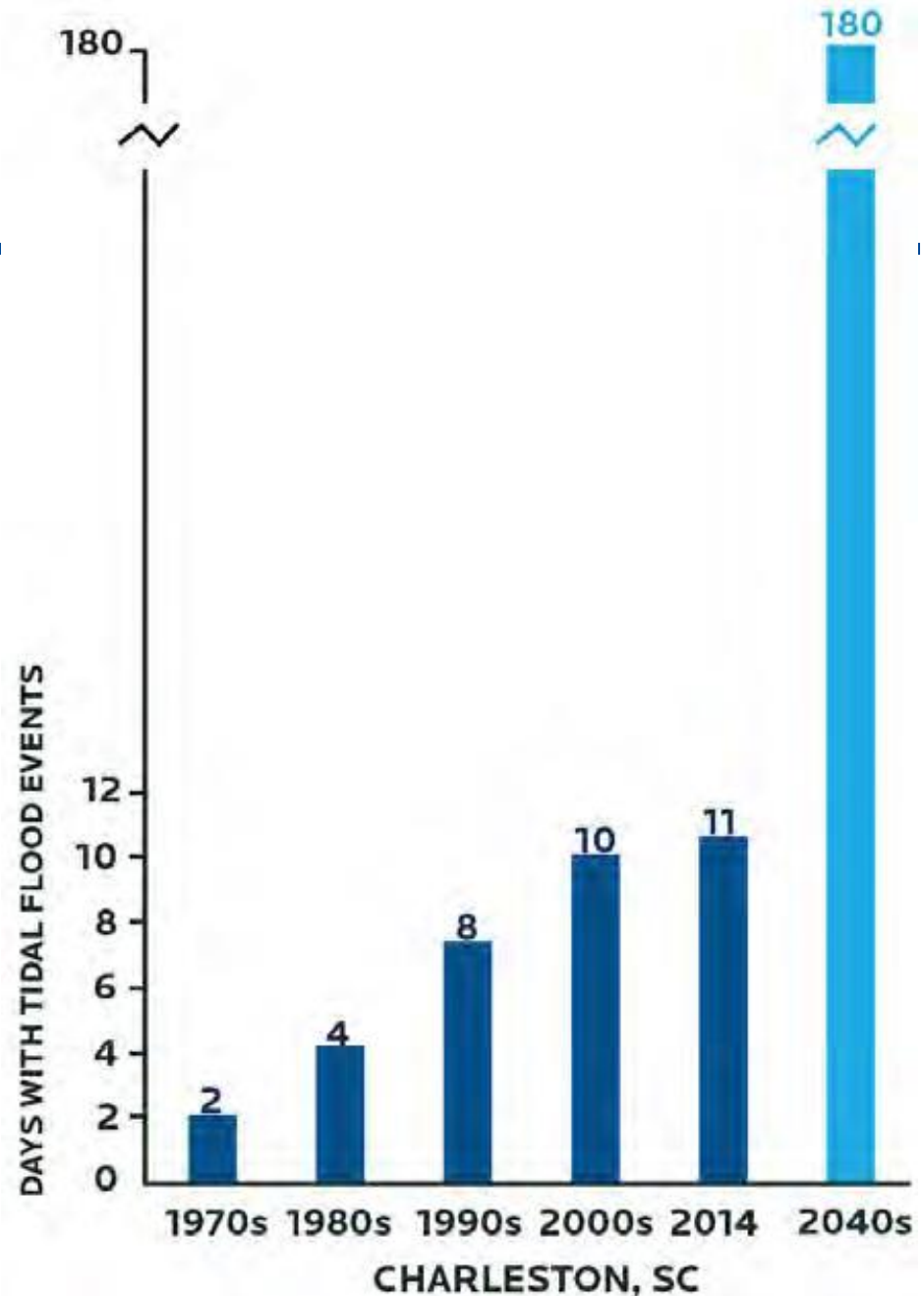
What We Know: Sea Level Rise

It's happening.

Source:
City of Charleston Sea Level Rise
Strategy
December 2015



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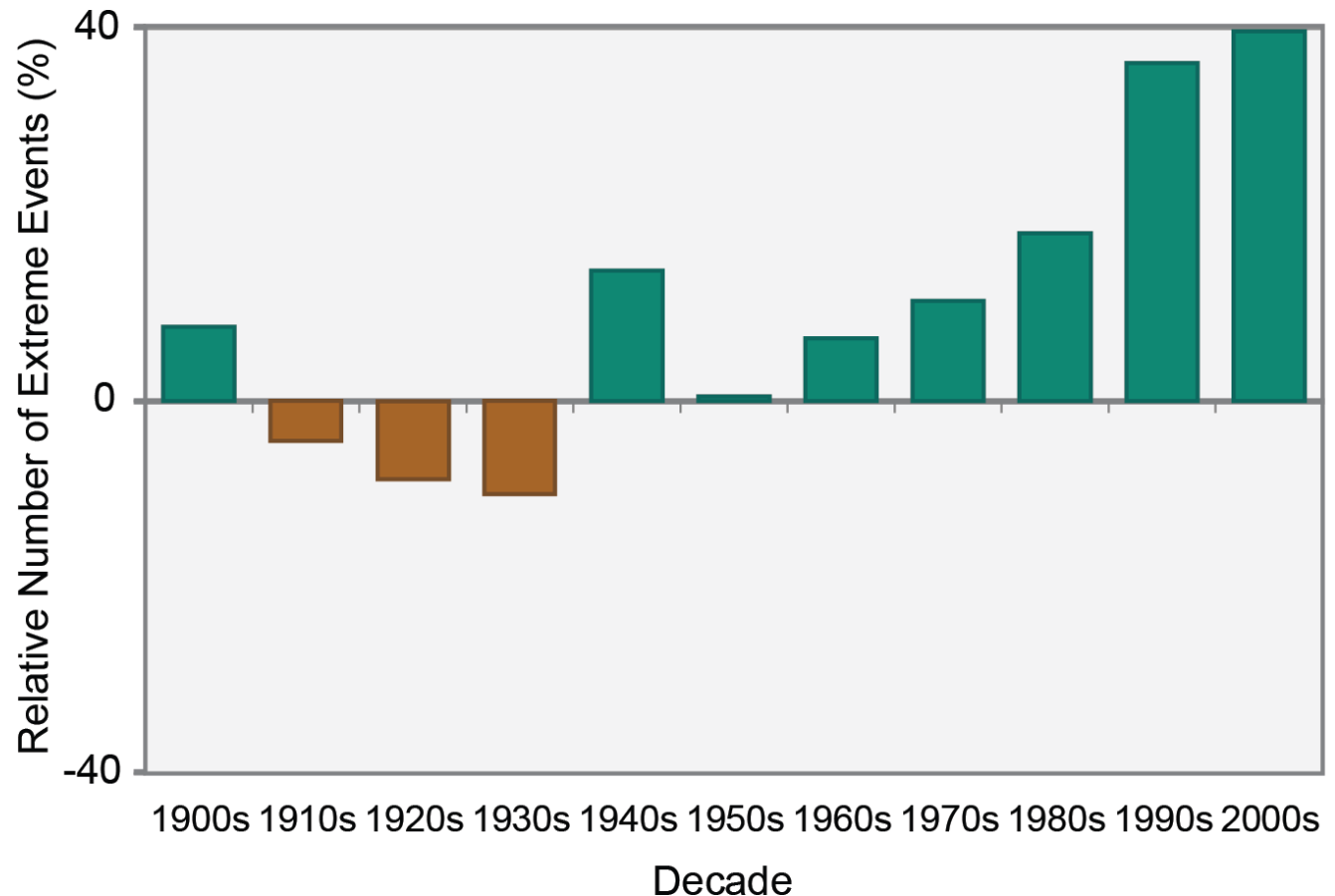


What We Know: Extreme Weather

Observed U.S. Trend in Heavy Precipitation

Increase in
severe
weather
events

Source:
Monitoring and
Understanding
Trends in Extreme
Storms: State of
Knowledge
2013



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What We Know: Flooding

Increase in flooding events

Source:
FEMA.gov
Accessed
October 2017 at
<https://www.fema.gov/node/296695>



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Historical Flood Impact

See how floods have impacted your state according to data from NOAA's Storm Events Database.

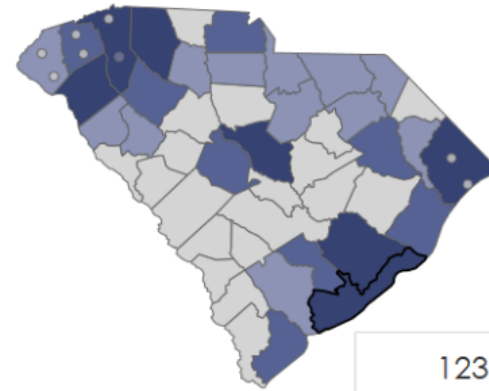
Choose a State

South Carolina

Map Legend

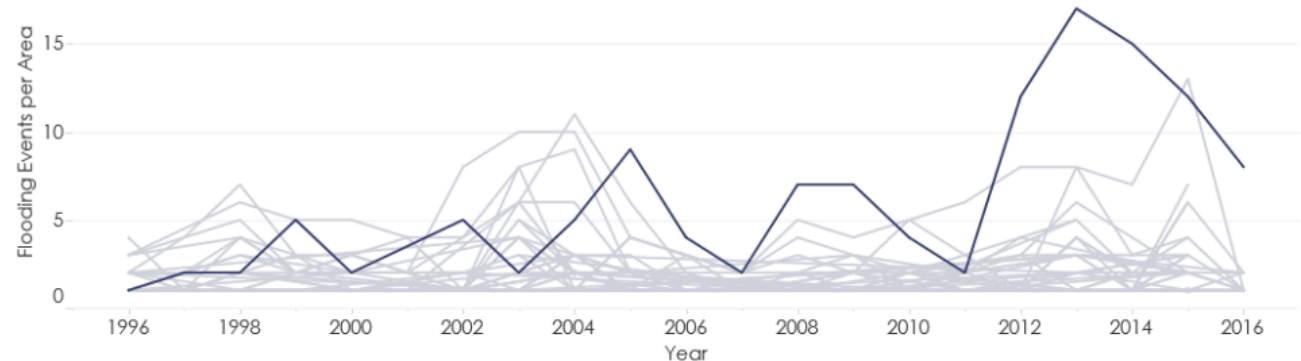
- 1 - 10 Events
- 10 - 20 Events
- 20 - 35 Events
- 35+ Events

This visualization is interactive. Click once on a chart to filter; click again to clear.



123 Flooding Event(s)
Charleston County, South Carolina

What is shown in this map/graph? ?



Planning Opportunities (FEMA)

Local Hazard Mitigation Plans

Identify hazards, vulnerable populations and infrastructure, identify mitigation opportunities

<https://www.fema.gov/hazard-mitigation-planning-resources>

Threat and Hazard Identification Risk Assessment (THIRA)

Risk and capability assessment leveraging whole community approach

<https://www.fema.gov/threat-and-hazard-identification-and-risk-assessment>



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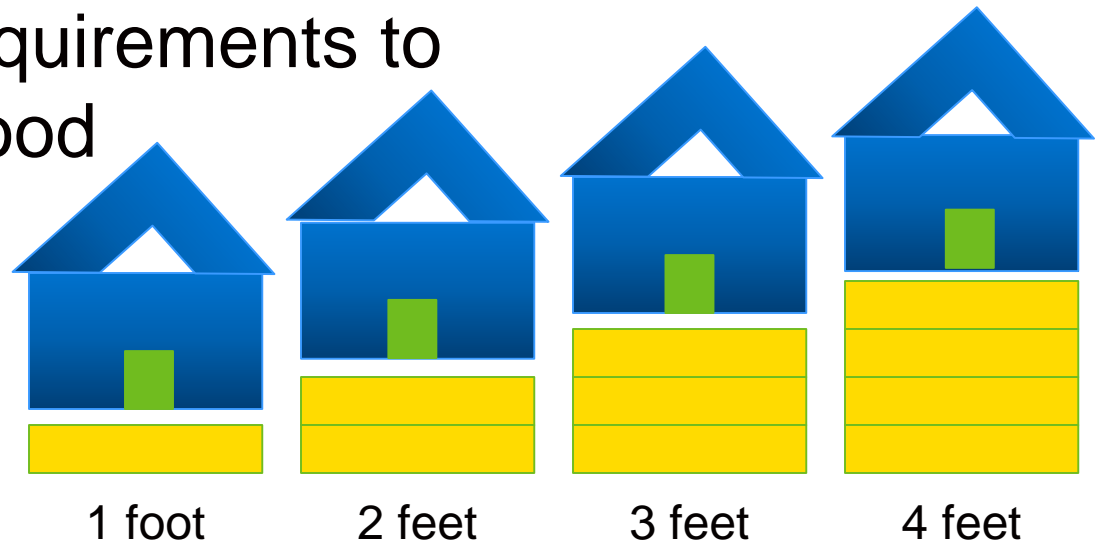
National Flood Insurance Program

Communities can utilize local floodplain ordinances to decrease risk from flooding

For example:

Avoid construction in floodplains

Add freeboard requirements to mapped Base Flood Elevations (BFE)



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Grant Programs: PA

Public Assistance (PA)

Repair and reconstruction assistance for counties declared under a presidential major declaration

406 Mitigation: Repair or rebuild using cost-effective mitigation measures (damaged elements only)

Alternate or Improved Projects

Alternate Procedures

<https://www.fema.gov/public-assistance-policy-and-guidance>



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Grant Programs: HMA

Hazard Mitigation Assistance (HMA) Grants:

Hazard Mitigation Grant Program (404 Mitigation):
Available state-wide after a presidential major
disaster declaration

Flood Mitigation Assistance:
Annual competitive grant program

Pre-Disaster Mitigation:
Annual competitive grant program

<https://www.fema.gov/hazard-mitigation-assistance>



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Grant Programs: HMA

Eligible project types include:

Climate resilience mitigation projects

Elevations

Acquisitions (repetitive loss properties)

Drainage improvements

<https://www.fema.gov/hazard-mitigation-assistance>



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Tip 1: Create a Community Vision

Creating a long-term community vision aids in meeting community needs and priorities

Best practice:
Chattanooga Venture
and Vision 2000



Source: Chattanooga Times Free Press

<http://wtcityv.org/watch-online/history-makers/chattanooga-venture-and-vision-2000/>



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Tip 2: Build a Strategic Plan

Once you have a vision, build a strategic plan to help socialize and implement the vision across the community, administrations, and sectors



Tip 3: Be Creative with Funding

Leverage multiple funding sources across the whole community:

Public Sector:

Federal, State,
Local

Private Sector

Private Non-Profits

Fundraising



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