# Sea Level Rise in the US: Challenges and Policy Landscape

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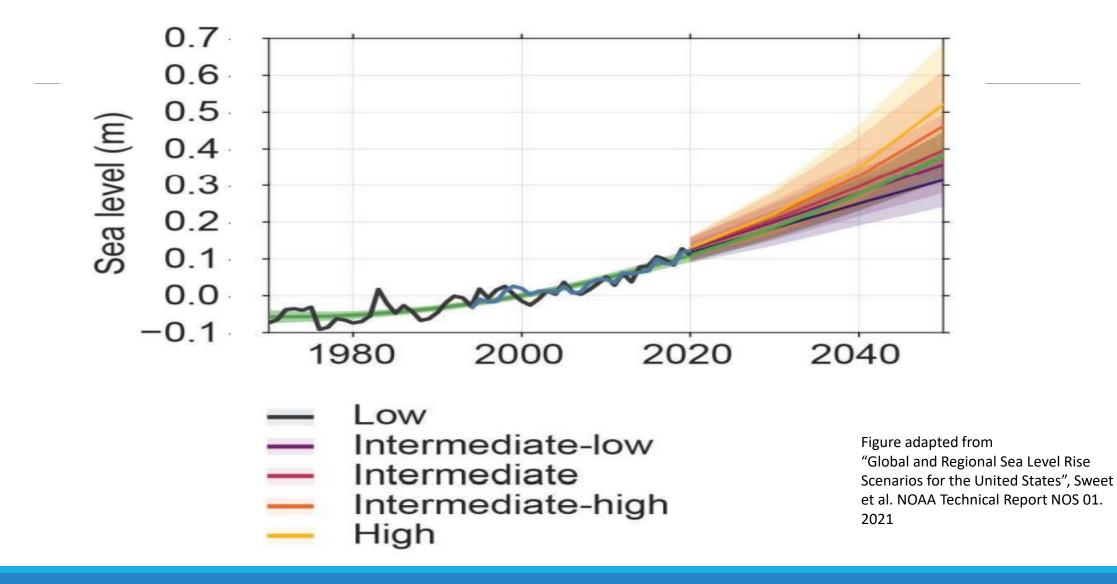
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#### What is Sea Level Rise?

What is expected in the US?



#### What does this mean for us?



#### On average, the U.S. will see as much sea level rise by 2050 as seen in the last century

Sea level rise leads to increased coastal flooding even in the absence of rain or storms

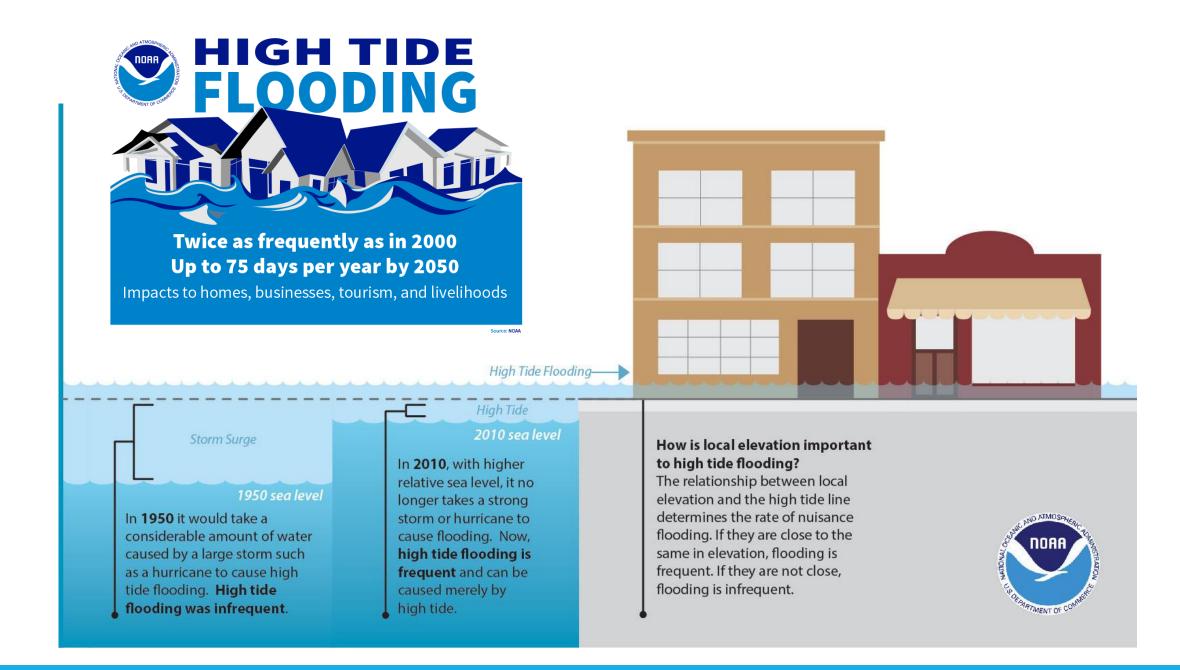




#### What does sea level rise look like? A glimpse of the future?



<u>Anthony Quintano/</u> https://www.flickr.com/photos/quintanomedia/8505192671/





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- 4. Incorporate this knowledge and engagement into future policies, plans, development...

### Policy Context

- This is not an environmental problem it affects every aspect of society and economy
- All levels of government have to be part of the solution
- The Federal Government has several roles:
  - Getting its own house in order
  - Supporting other levels of government with incentives
  - Providing good information and data



## A National Policy Agenda for Rising Seas

- Disclose Current and Future Risks of Coastal Flooding and Sea Level Rise
- Improve Disaster Preparedness
- Limit New Development in Places at Risk of Storms and Rising Seas
- Build Capacity to Sustain Coastal Communities, Homes, and Businesses
- Adapt Coastal Infrastructure (Transportation, Energy, Water, Defense)
- Promote Migration of Coastal Ecosystems to Higher Ground
- Build Commitment to Social Justice into Coastal Flood Management Plans and Programs





### **Executive Actions**

- Adaptation plans for all agencies
- Improving climate science, information, and services
- Building resilience into all future investments and plans, including adapting new and existing programs for infrastructure and buyouts
- Leveling the playing field for vulnerable communities to access resources, including through revising cost/benefit methodologies
- Promoting nature-base solutions to coastal flood risks



#### Legislative Action

- Provide funding for coastal resilience efforts, including planning and action at local levels as well as science and information development (e.g., grants for community plans or funding to invest in natural infrastructure.
- Ensure existing programs and legislation address sea level rise, e.g. WRDA, NFIP, etc.
- Champion and coordinate actions across committees and bills that promote coastal resilience

### Thank you and Resources

#### Thank you! to

- Jeff Peterson, Co-Facilitator, Coastal Flood Resilience Project
- Coastal Flood Resilience Project collaborating organizations
- EESI
- All of you!

#### **Resources:**

Interagency 2022 Sea Level Rise Technical Report (NOAA, NASA, EPA, USGS, DHS, FEMA, USACOE, DOD) https://oceanservice.noaa.gov/hazards/sealevelrise/sealevelrise-tech-report.html

#### 2021 State of High Tide Flooding and Annual Outlook NOAA

https://tidesandcurrents.noaa.gov/HighTideFlooding\_AnnualOutlook.html

Coastal Flood Resilience Project website: <u>https://www.cfrp.info/</u> Including:

- •<u>National Policy Agenda: Preparing for More Severe Coastal Storms and</u> <u>Rising Seas</u>
- •White papers on NFIP reform, relocation and migration, disclosure of coastal flood risk, legislative issues, etc.
- •Links to Coastal Flood Resilience Resources from a variety of partners, including Surfrider Foundation, Union of Concerned Scientists, Anthropocene Alliance, Meridian Institute, NRDC and others

"A New Coast: Strategies for Responding to Devasting Storms and Rising Seas" by Jeffrey Peterson

https://islandpress.org/books/new-coast

#### Illustrative Legislative initiatives with provisions on sea level rise and coastal resilience

- 1. H.R. 3764; the Ocean-Based Climate Solutions Act; authorizing diverse programs to make coastal communities more resilient; and to provide for the conservation and restoration of ocean and coastal habitats, biodiversity, and marine mammal and fish populations
- 2. H.R. 2570; the Climate Risk Disclosure Act of 2021; requiring the Securities and Exchange Commission to require corporations to annually disclose information regarding climate change-related risks, including strategies and actions to mitigate these risks
- 3. H.R. 3228; the National Coastal Resilience Data and Services Act; directing the National Oceanic and Atmospheric Administration, to improve science, data, and services that enable sound decision making in response to coastal flood risk, including impacts of sea level rise, storm events, changing Great Lakes water levels, and land subsidence
- 4. H.R. 2632; the Build for Future Disasters Act of 2021; eliminating National Flood Insurance Program (NFIP) rate subsidies for newly constructed property
- 5. H.R. 481; the Flood Resiliency and Taxpayers Savings Act of 2021; enacting key provisions of the Federal Flood Risk Management Standard
- 6. H.R. 2872; the SAFE Act; requires the President to establish an interagency National Fish, Wildlife, and Plants Climate Adaptation Strategy Working Group and address the effects of extreme weather and climate change on fish, wildlife, and plants
- 7. H.R. 744; the FEMA Climate Change Preparedness Act; requires the FEMA to revise its 2018-2022 Strategic Plan to ensure that the plan explicitly mentions climate change and addresses the implications of climate change on national disaster risk
- 8. H.R. 1963; the Climate Resilient Communities Act; requiring the government Accountability Office to report to Congress on the use of model, consensusbased building codes, standards, and provisions that support resilience to climate risks and impact
- 9. H.R. 4235; the Living Shorelines Act; authorizing grants to certain entities for purposes of carrying out climate-resilient living shoreline projects that protect coastal communities
- 10. H.R. 2534; the Climate Stewardship Act of 2021; establishing a Coastal and Estuary Resilience Grant Program
- **11.** H.R. 5477; Federal Agency Climate PREP Act, providing for expanded coordination among federal agencies in preparing for climate change