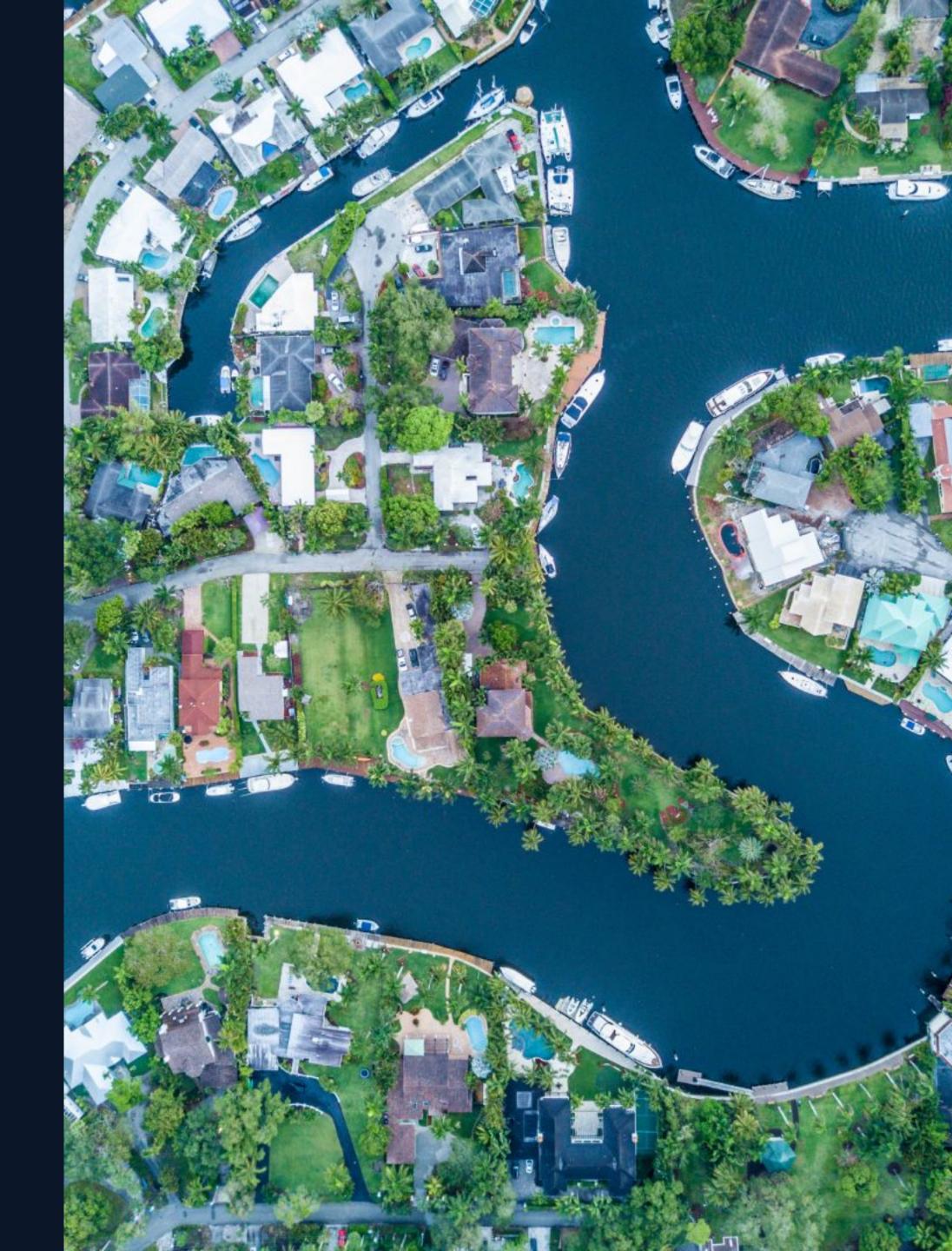


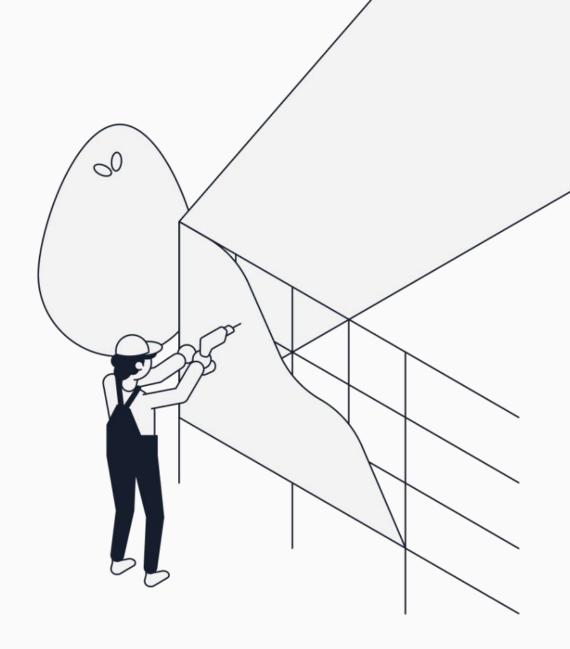
The Road to Resilience: Flood Risk Insights from Climate Central's Edge of America Tour

March 25, 2025



Housekeeping

- This presentation is being recorded
- The recording and presentation will be shared via email and posted on our blog
- Use the Q+A or the Chat to ask questions
- CFMs: Complete the post-attendance survey to receive your CEC. The CEC Certificate will be sent via email to you (and the list will be sent to ASFPM) next week







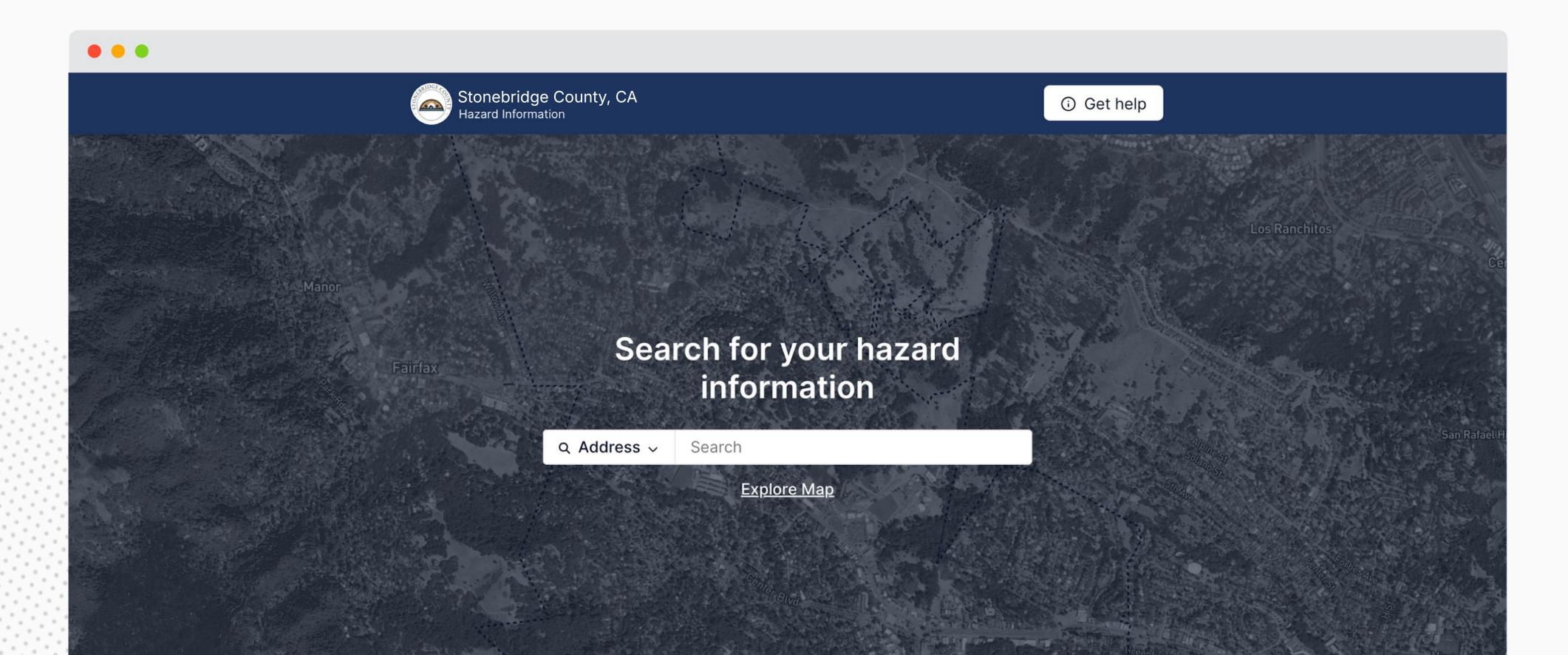
Agenda

1 Introduction2 The Road to Resilience3 Q&A



OUR SOLUTION

Forerunner empowers gov. agencies by centralizing hazard data into a single, easy to use, application.

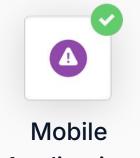


VALUE

Forerunner is a one-stop-shop for all of your hazard management data and workflows.







Application



Configurable **Table Views**



0

Document

Management

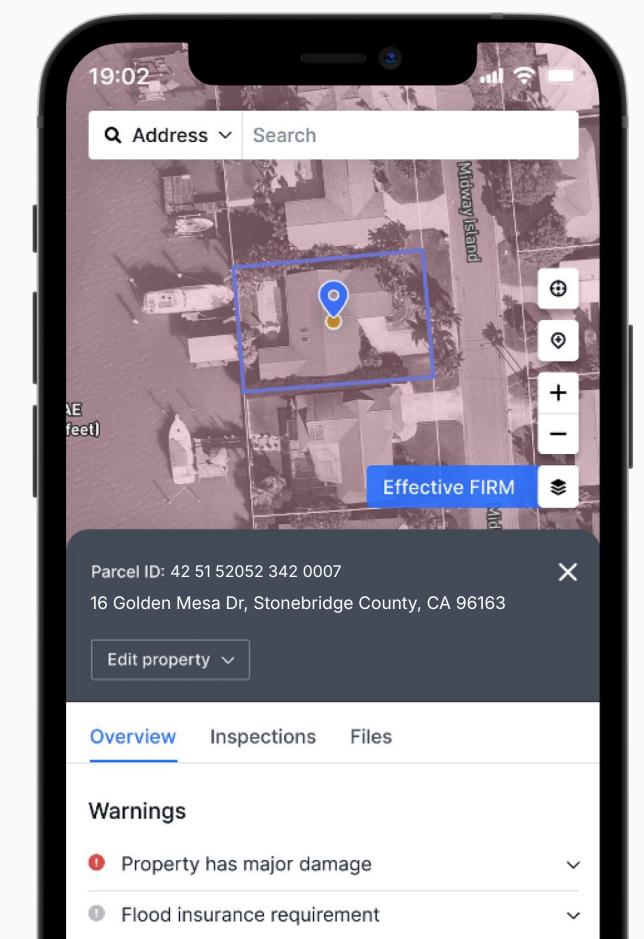
Sensitive Data Management



Regulatory **Engine**



Hazard Zone Determinations





Configurable Records



Damage **Estimates**



Public Website



We work with over 130 of the most at-risk communities throughout the U.S.







State of Florida



ConcordCalifornia



Santa Barbara County
California



Raleigh
North Carolina



Harris County
Texas



Lincoln Nebraska



Lee County
Florida



Miami Florida



Las Cruces
New Mexico



Peterborough
New Hampshire



Norfolk Virginia



Jefferson Parish Louisiana



Kitty Hawk North Carolina



OrtingWashington



Georgetown County
South Carolina



Agenda

1 Introduction
2 The Road to Resilience





Daniel Rizza

Director of Sea Level Rise Program

Climate Central



Allison Kopicki
Outreach and Communications
Coordinator - FloodVision
Climate Central

CLIMATE CO CENTRAL

FloodVision® Road to Resilience

March 25, 2025

Dan Rizza drizza@climatecentral.org

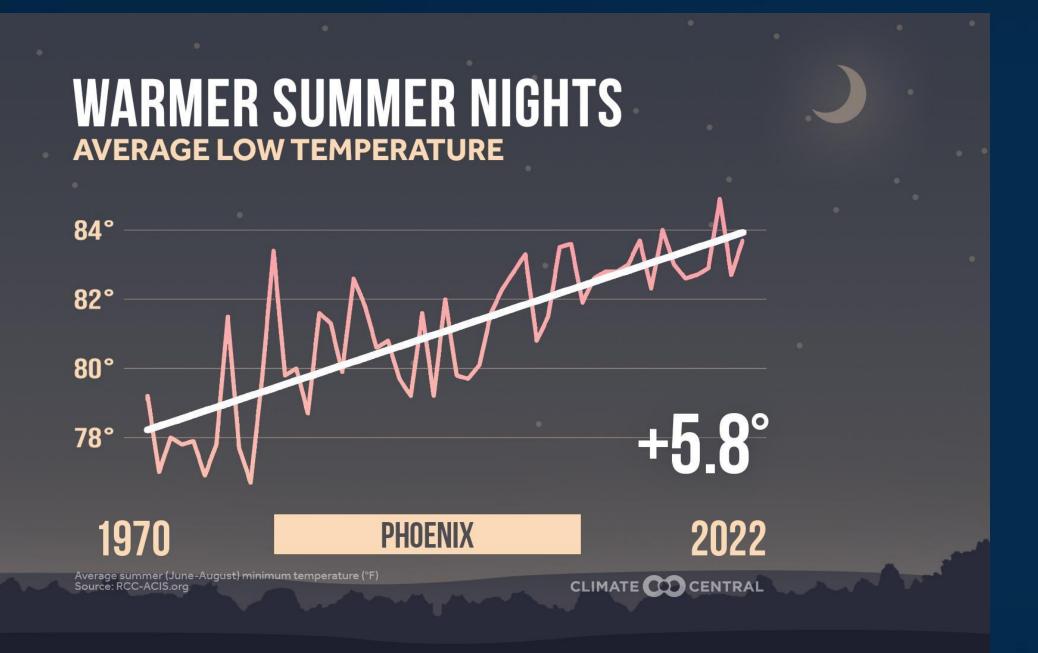
Allison Kopicki akopicki@climatecentral.org

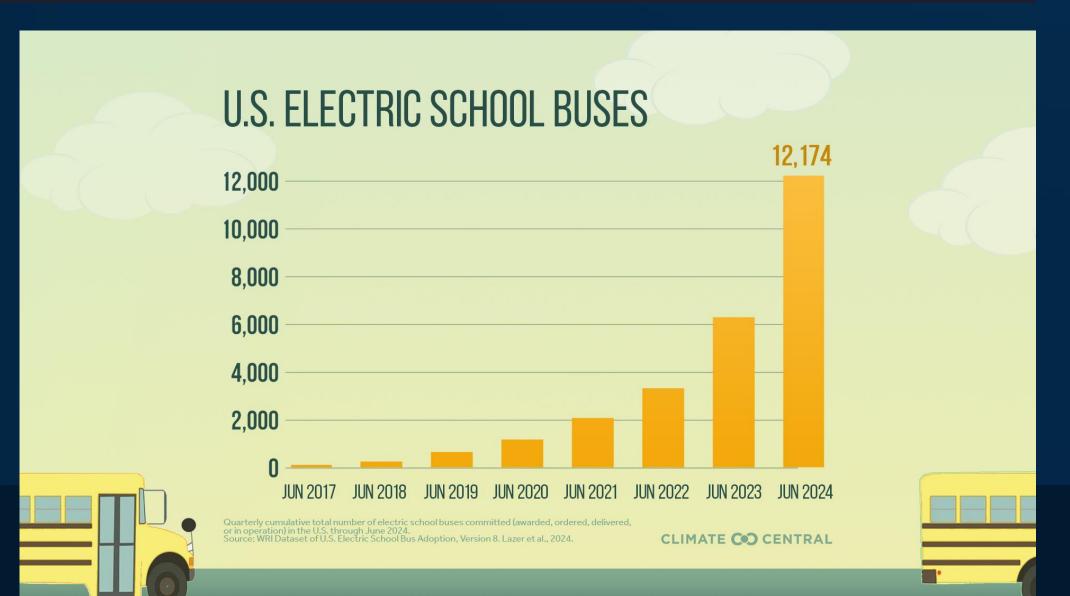


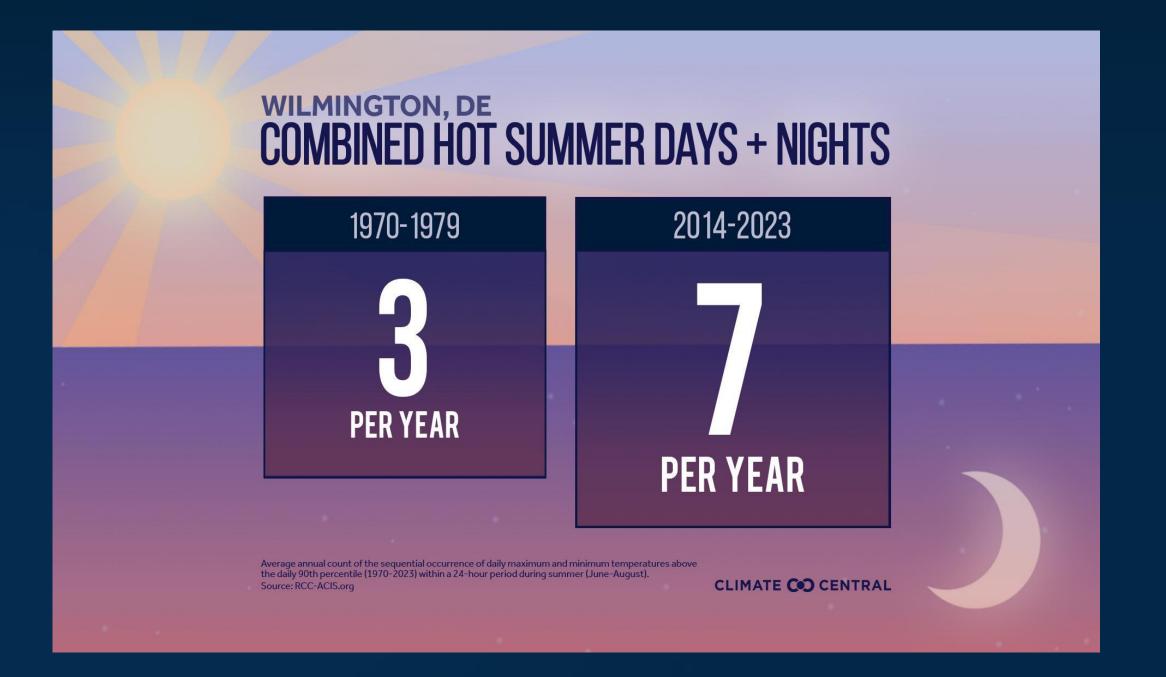
A Little About Climate Central

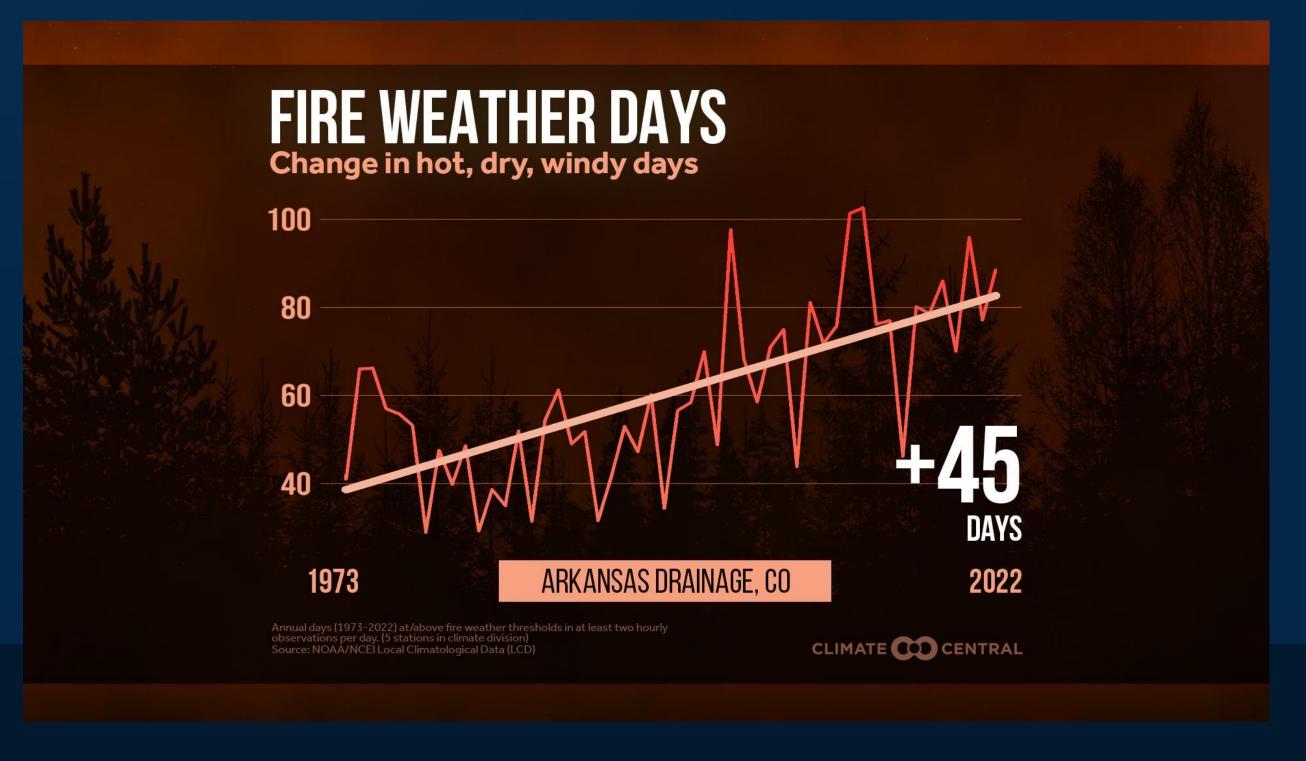
- We use science, big data, and technology to generate thousands of local storylines and compelling visuals that make climate change personal and show what can be done about it
- We are non-profit, non-partisan, non-advocacy
- We provide localized and evidence-based information on climate science, impacts, & solutions

Climate Matters Program









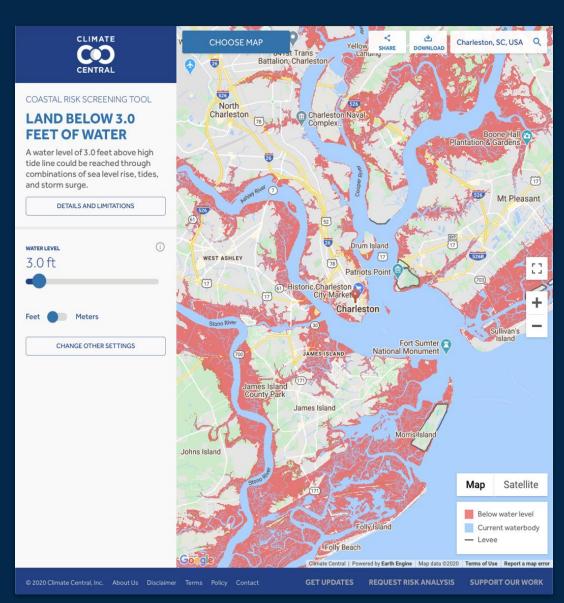
Sea Level Rise Program



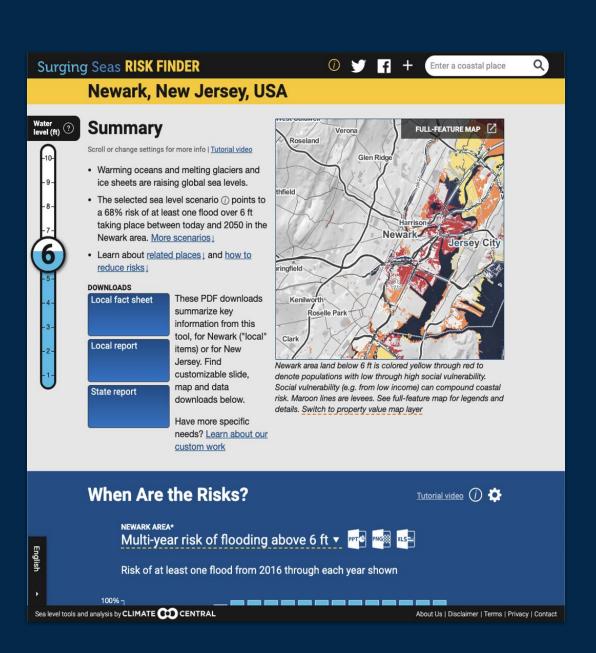
FloodVision®



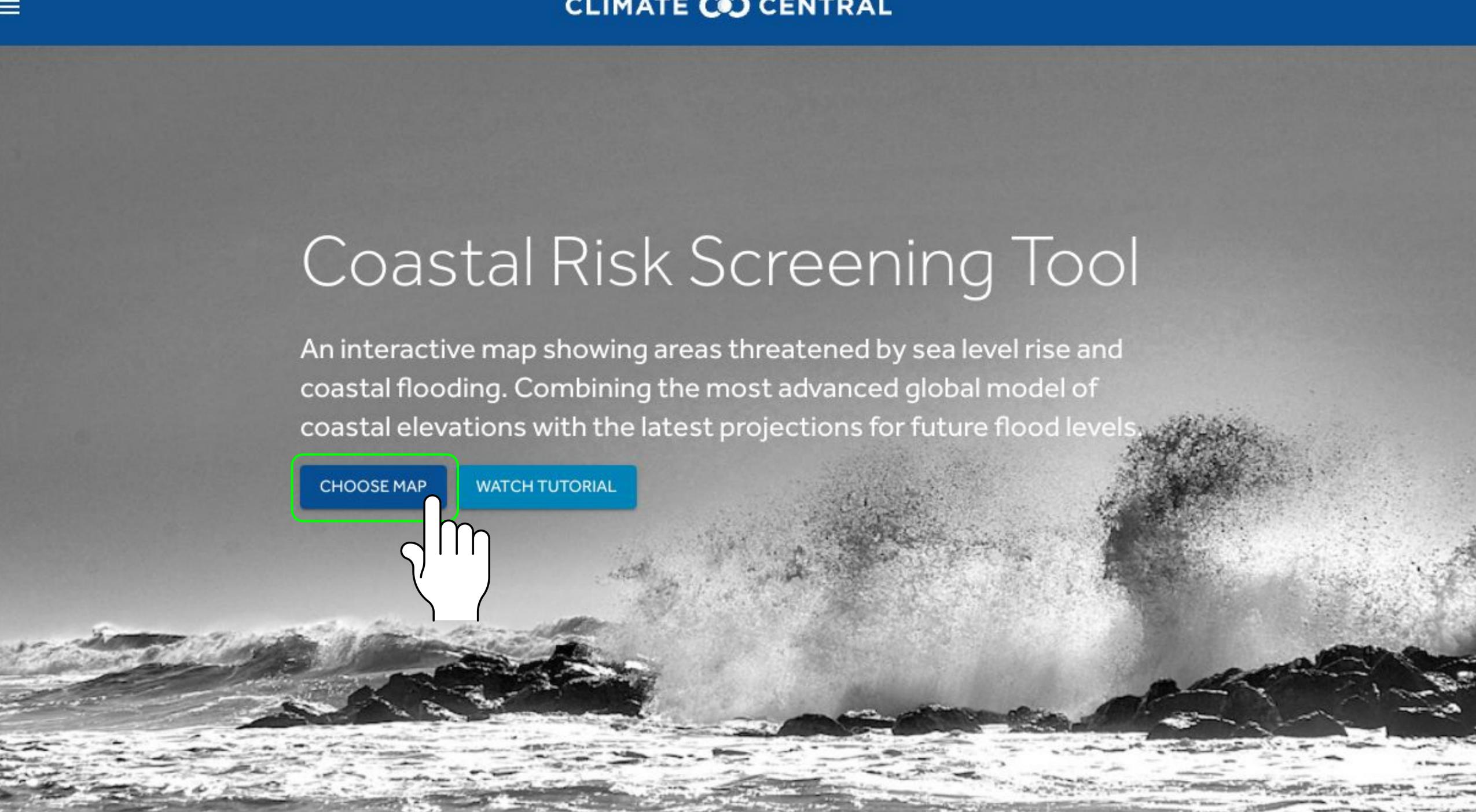
Edge of America
Tour



Coastal Risk
Screening Tool



Risk Finder





COASTAL RISK SCREENING TOOL

LAND PROJECTED TO BE BELOW ANNUAL FLOOD LEVEL IN 2050

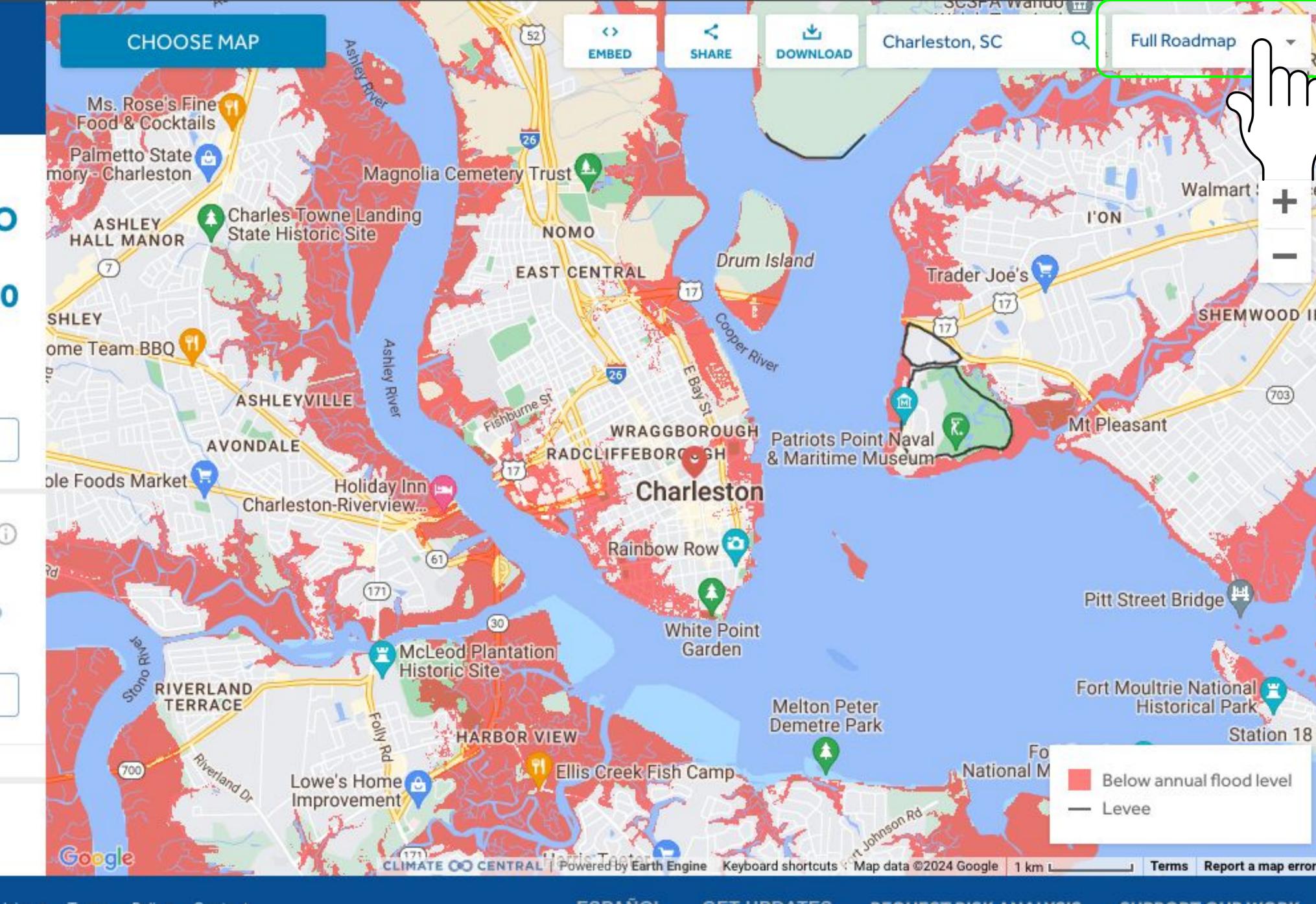
Explore sea level rise and coastal flood threats by adjusting the controls below.

DETAILS AND LIMITATIONS

YEAR 2050

CHANGE OTHER SETTINGS

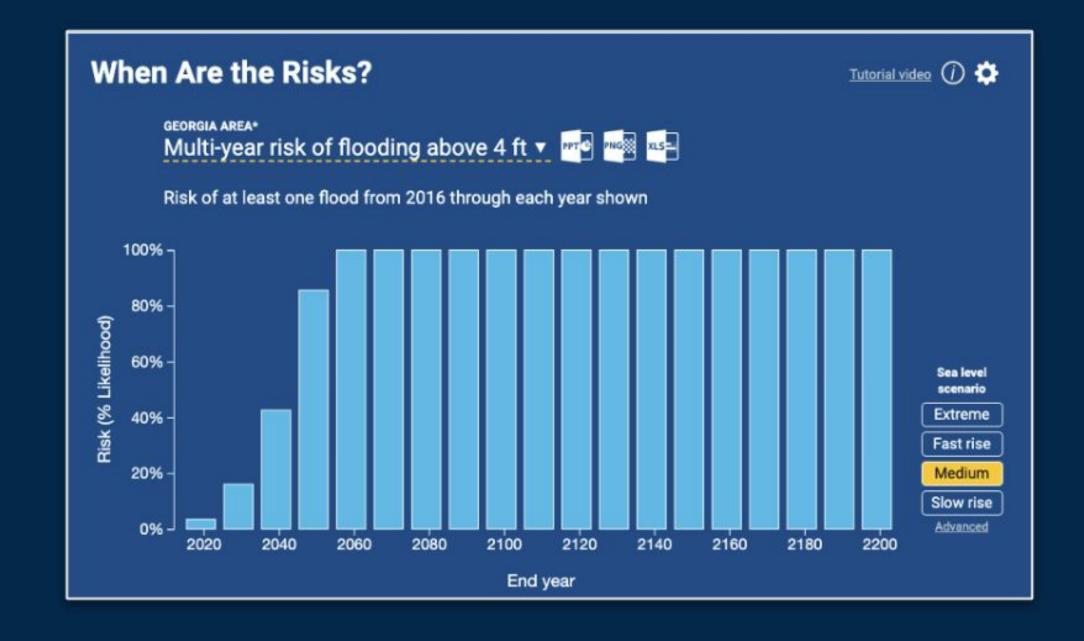
Video Tutorial 🔀

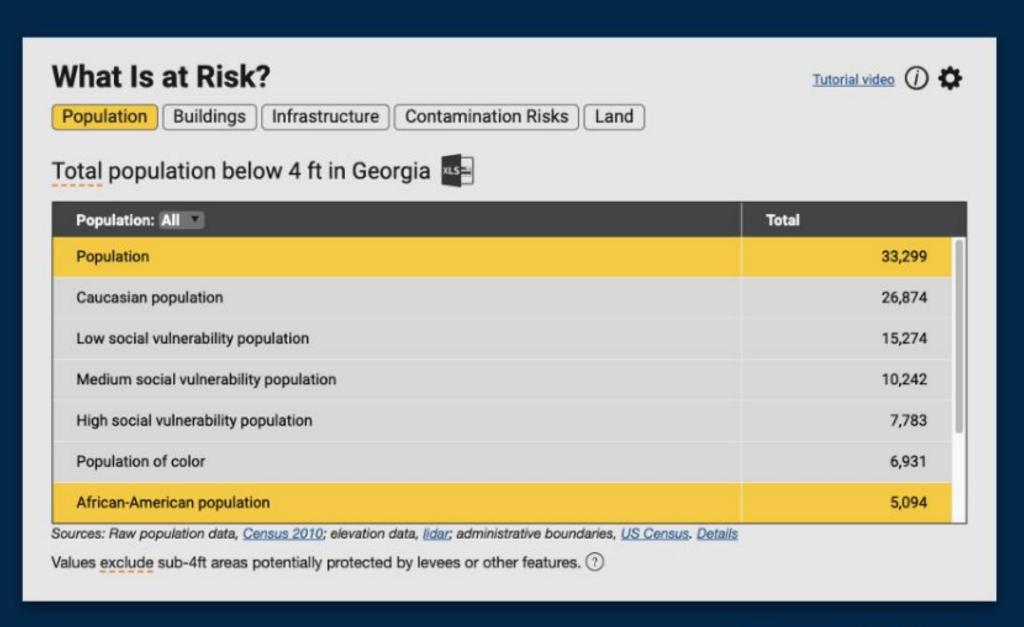


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Risk Finder

- Web tool for assessing sea level rise and coastal flood risk
- Hyper-localized information
- Incorporates 100+ GIS datasets mainly from federal sources including NOAA, the Census, DOE, DOI, EPA, FCC, FEMA, and USGS
- Downloadable fact sheets, spreadsheets, and more







Governments use Climate Central tools for...



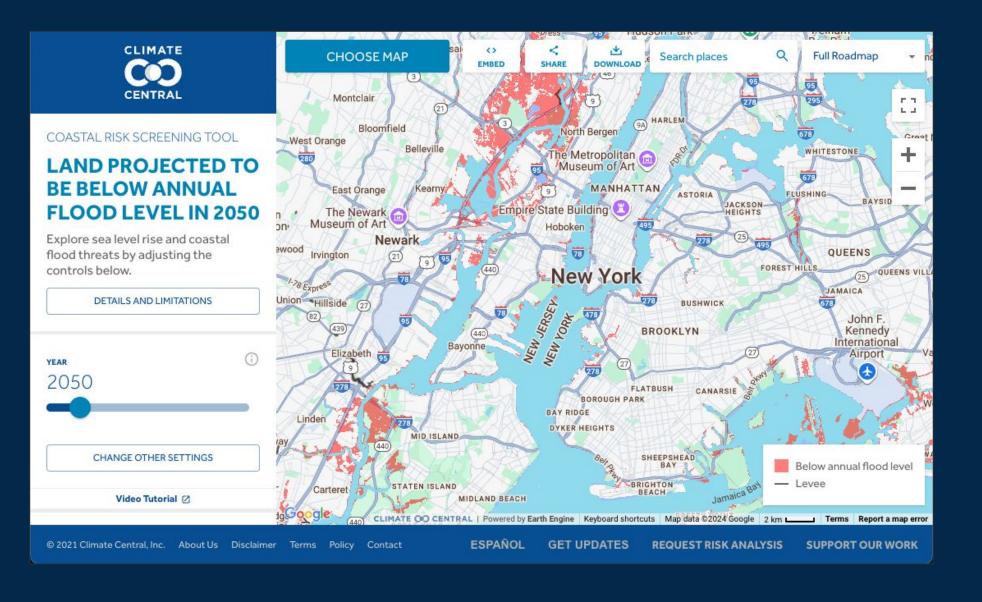
Coastal practitioners use Climate Central tools for...



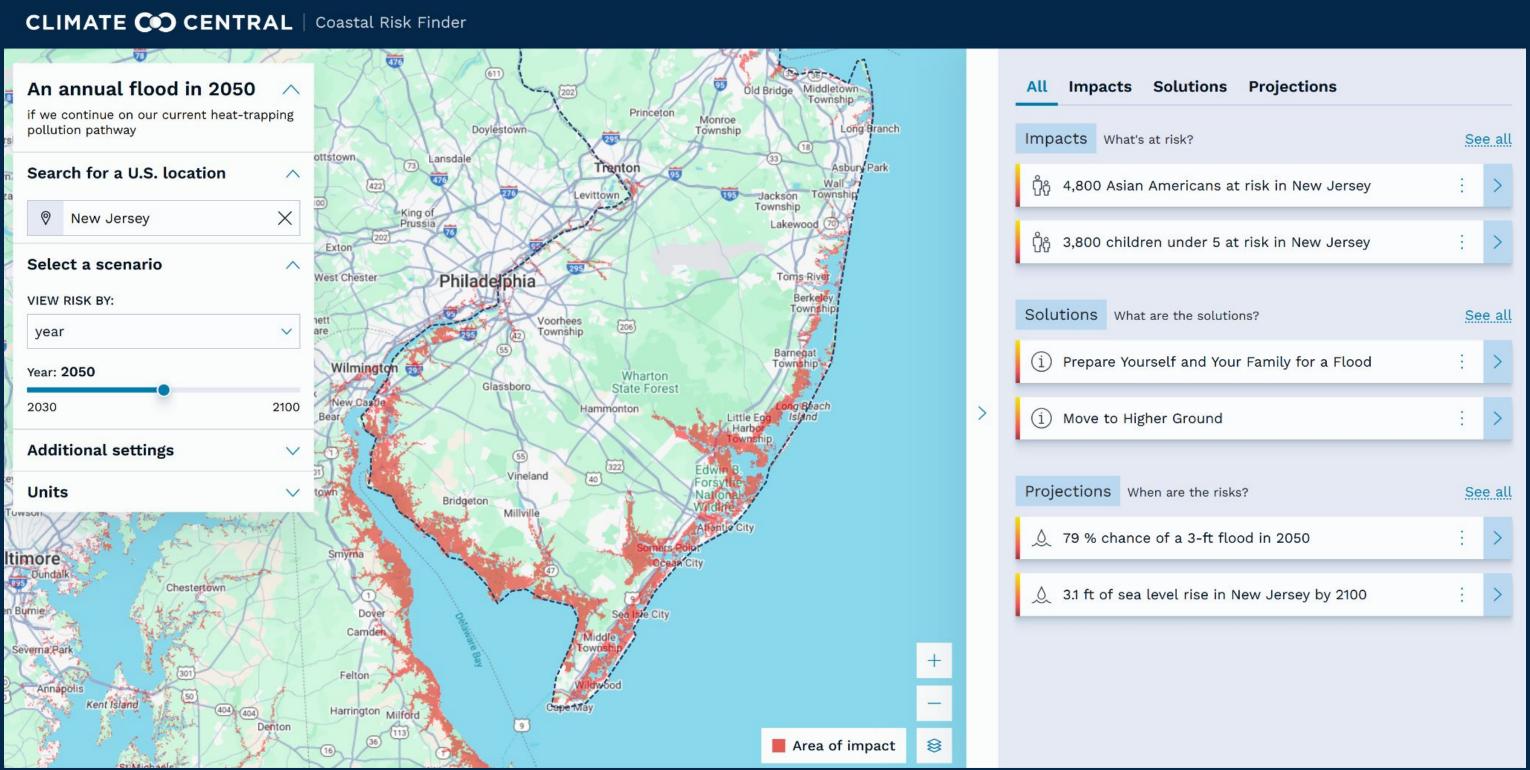
More Use Cases

Organization	Climate Central Resource	Intended Use as provided by organization during download of materials from online tools
County officials in Dept. of Planning & Zoning	Мар	planning
State Lands Commission	Мар	granted lands vulnerability assessment
Federal agency	Risk Finder	environmental planning & risk analysis
County/State Office of planning	Scenario 2100 data	research and long-range planning
County Utilities Authority	Мар	resiliency planning
Federal agency	Мар	NEPA environmental assessments
County Board of County Commissioners	Guide on using Climate Central tools within NFIP CRS	CRS planning
State Department of Conservation and Recreation	Мар	relocation of facilities
City in Maryland	Risk Finder	data collection for comprehensive plan update
City in New Hampshire - Planning Department	Scenario 2100	planning & zoning
City in California	Risk Finder Fact Sheet	FEMA Grant
State Department of Transportation	Risk Finder Forecast Data	Grant application





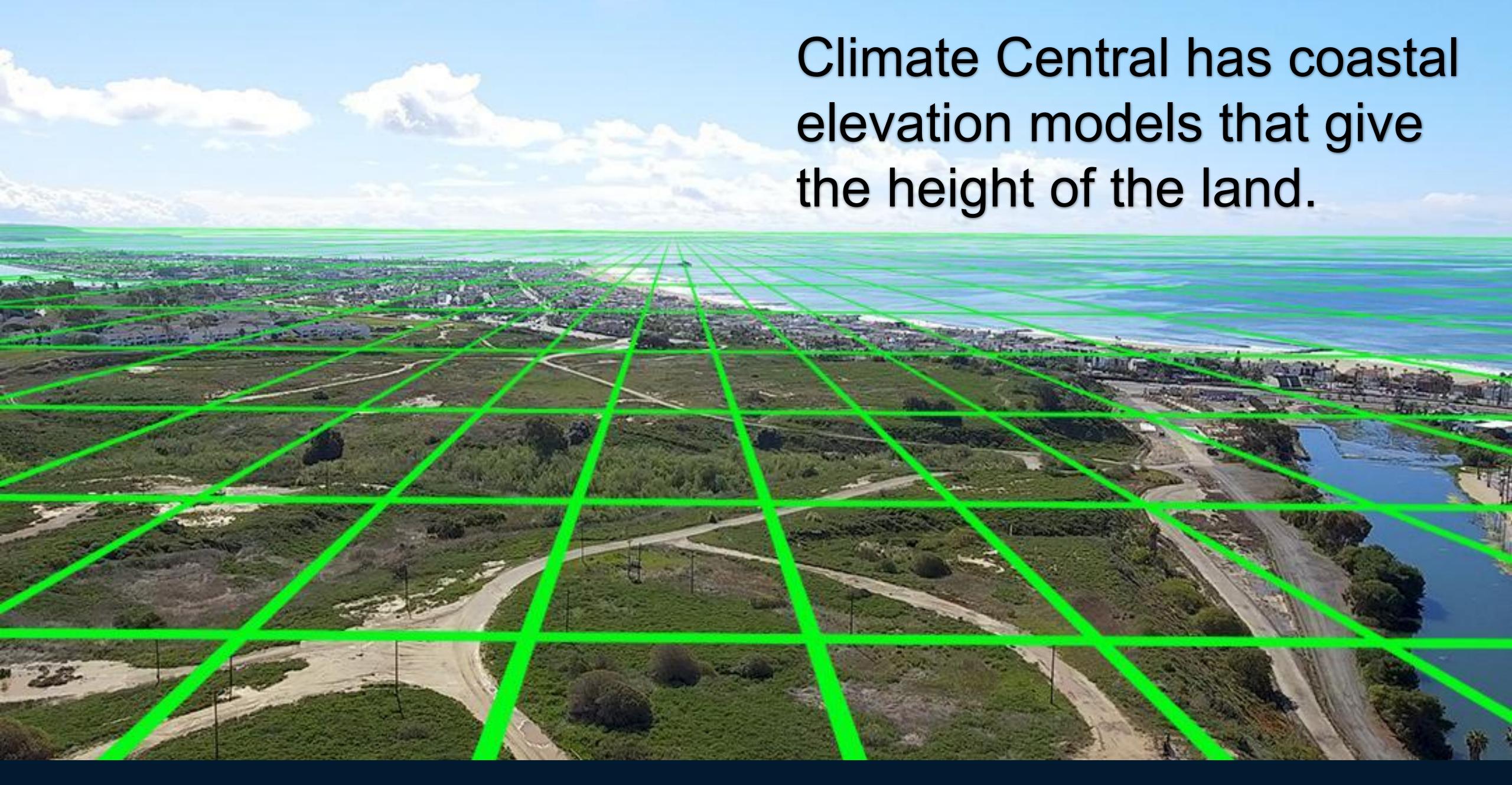


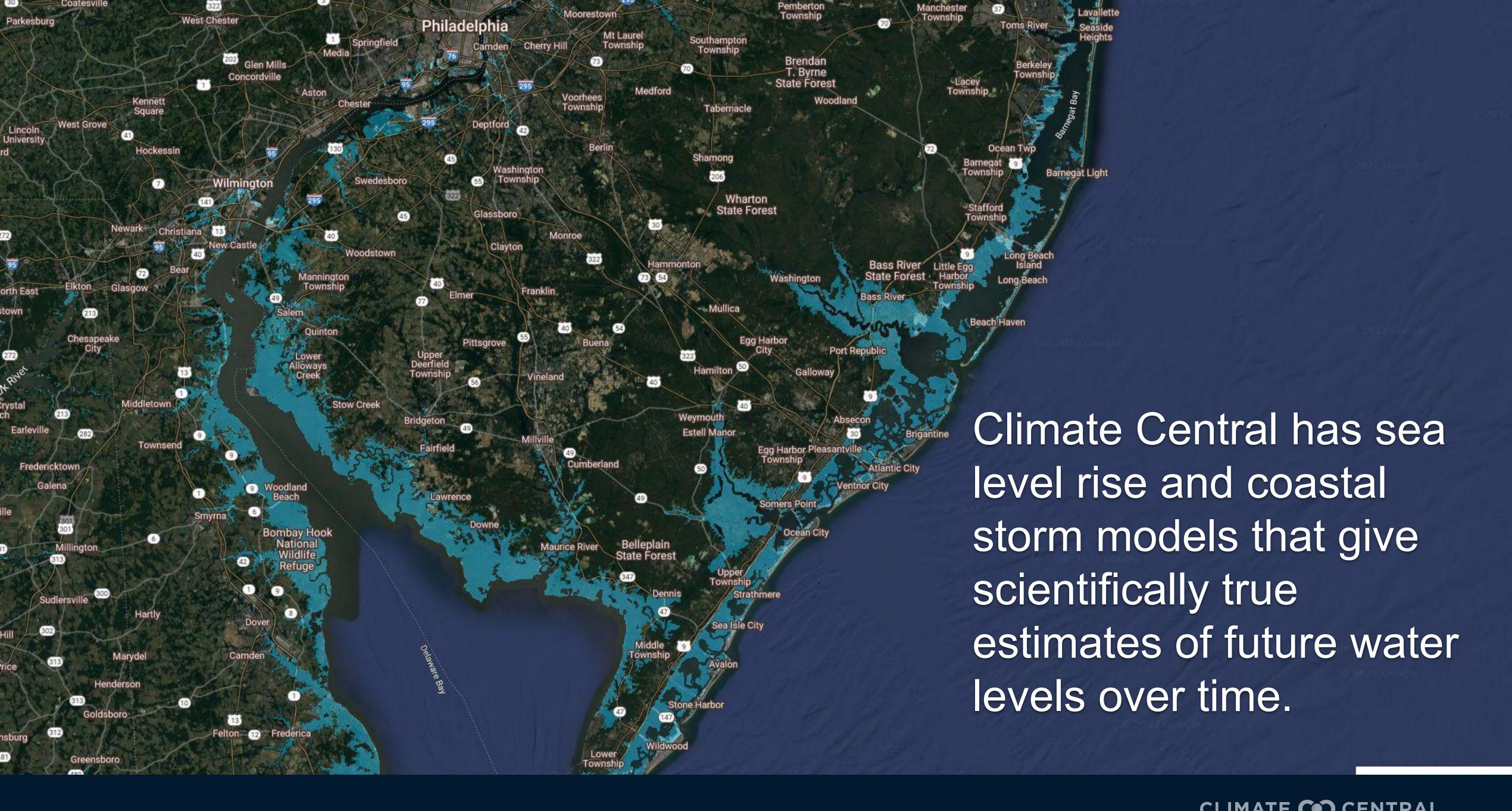


"I didn't know it was going to happen to me."

"It never flooded like this before."

"I had no idea it would be this bad."







Shock and surprise in coastal communities after a flood event



Gualtieri said survivors told them they didn't believe the warnings after other residents told them the surge wouldn't be that bad. He said people wound up hiding in their attics to get away from the water.

"We made our case, we told people what they needed to do and they chose otherwise,"
Gualtieri said. He added that his deputies tried overnight to reach those who had been trapped, but it just wasn't safe.

©CBS NEWS

"I'm just in shock," a homeowner told CBS News. "It's just such a beautiful house, and to see it like this, it's like, what could have happened?"





"I mean everybody is just kind of in shock and just trying to pick up the pieces," he told WUSF the morning after the storm. "I mean nobody really expected it like this."



Shock and surprise in coastal communities after a flood event

Washington Post

"Water damage is like a silent threat," she said.
"I don't know what I'm going to do about this because it's never happened before."





"They'll forget about this storm in a few weeks," one resident said. "As fast as they can put it up, people are moving in."





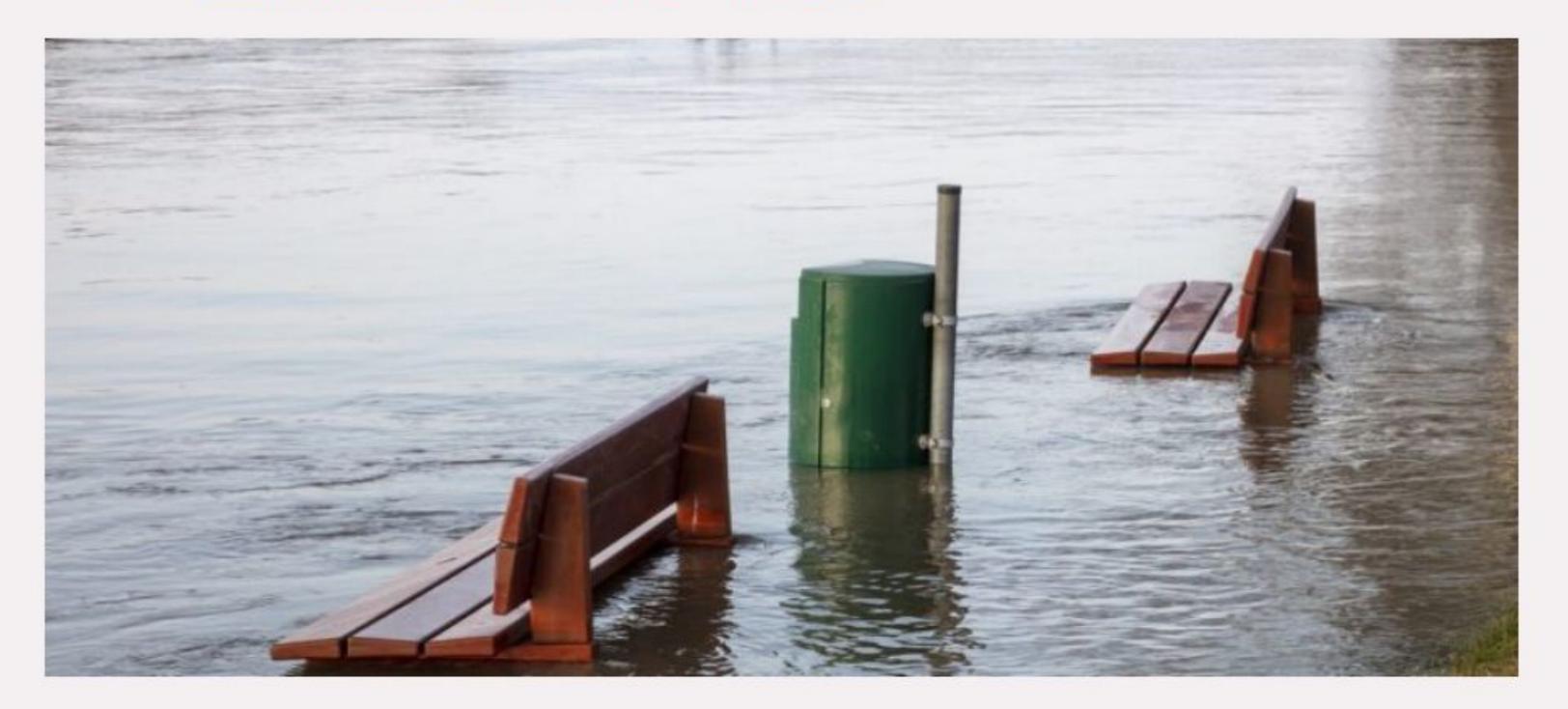
"I knew it would be bad, but I had no idea it was going to be this bad," she said. "This is unbelievable."



PEER-REVIEWED ARTICLE · Oct 31, 2024

Sea-level rise maps can decrease risk perceptions in coastal communities

By Matto Mildenberger, Jennifer Marlon, Alexander Sahn, Michelle A. Hummel, Chris Miljanich and Mark Lubell Filed under: Behaviors & Actions, Climate Impacts and Messaging



FINATE CO CENTRAL

Pictures tell a story.





FloodVision:

If you can see the future, you can shape the future.

FloodRover I







FloodRoverII







FloodVision®

- High quality
 entry-floor elevation
 data for quantitative
 flood risk
 assessments
- Photorealistic flood visualizations for effective risk communication

















FloodVision: What the visualizations can show























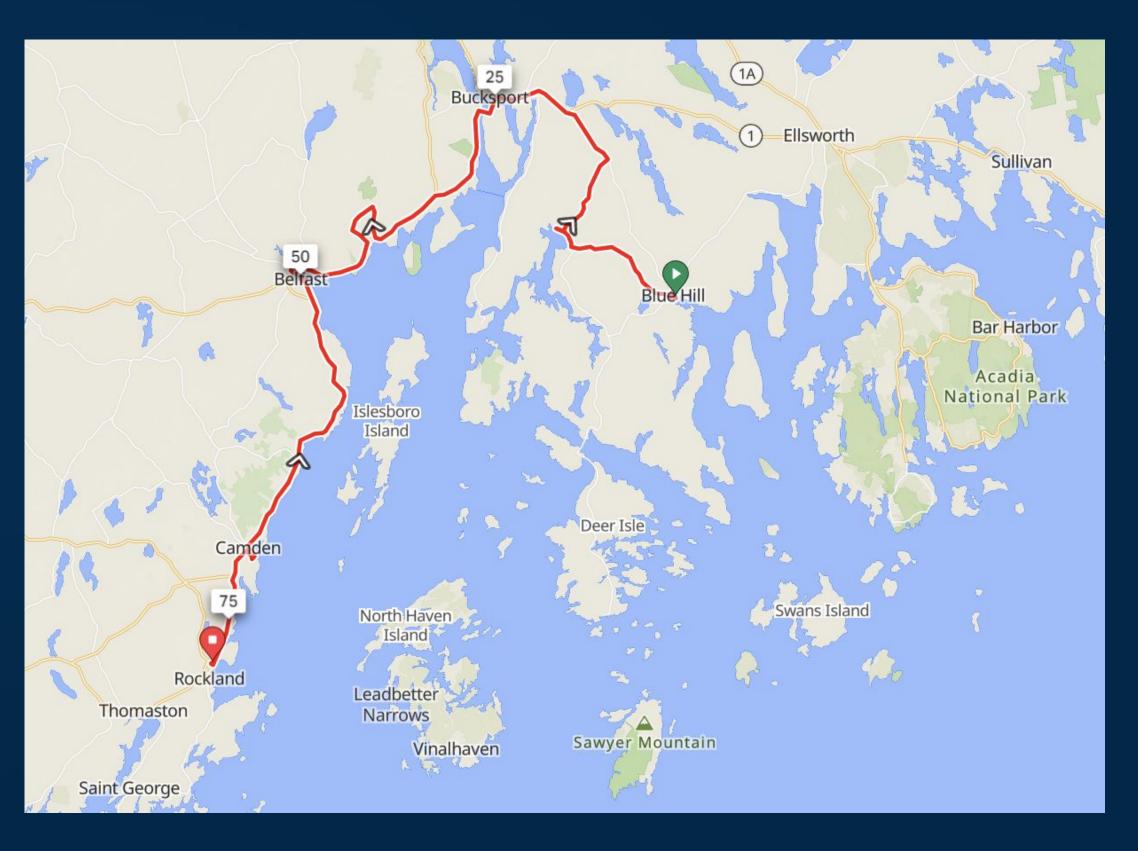


The Edge of America Tour:

FloodVision hits the road.

First meetup: Blue Hill, Maine - Peninsula Tomorrow

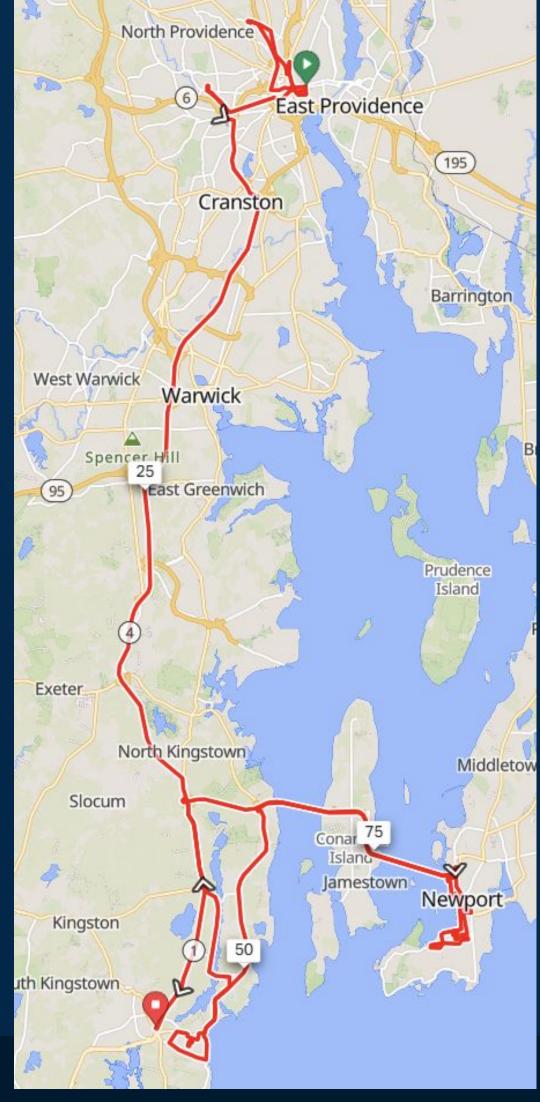


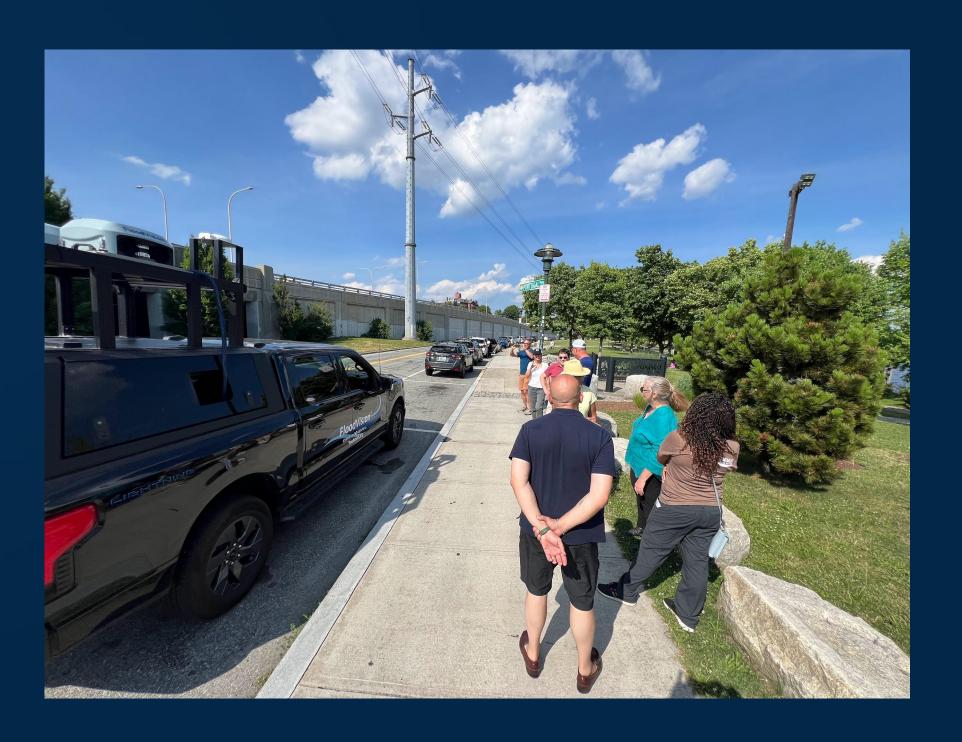


Allen Kratz, community organizer: Sea level rise, storm surge, astronomically high tides, flooding of our waterfront properties and damage, loss of income to people whose livelihoods depend on the water. Blue Hill is one town, but a lot of surrounding towns depend on this town, for its hospital, supermarket, pharmacies. I've seen an increasing awareness among people that the climate is changing and we need to work collaboratively to get the funding to adapt to storms and flooding. This winter's storms were a real wake up call for people, they saw flooding they've never seen before.

Providence, Rhode Island - Providence Resilience







St. Michael's, Maryland - Resilience Tailgate Tailgate

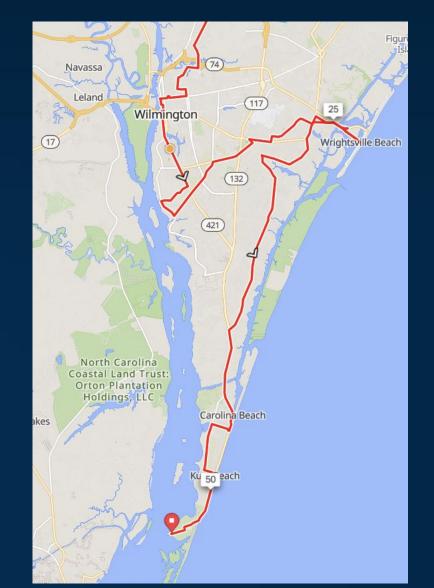






Wilmington, NC - Resilience Tailgate







CRS Workshop, Mobile, AL





EOA Tour: What We've Learned Along the Way

- Meet people where they are. What are they experiencing? What do they want to save?
- More **connects us** than divides us
- Everyone needs accessible visualizations to communicate flood risk
- The FloodRover vehicle itself is a powerful communications tool



FloodVision in Use: Branford, CT





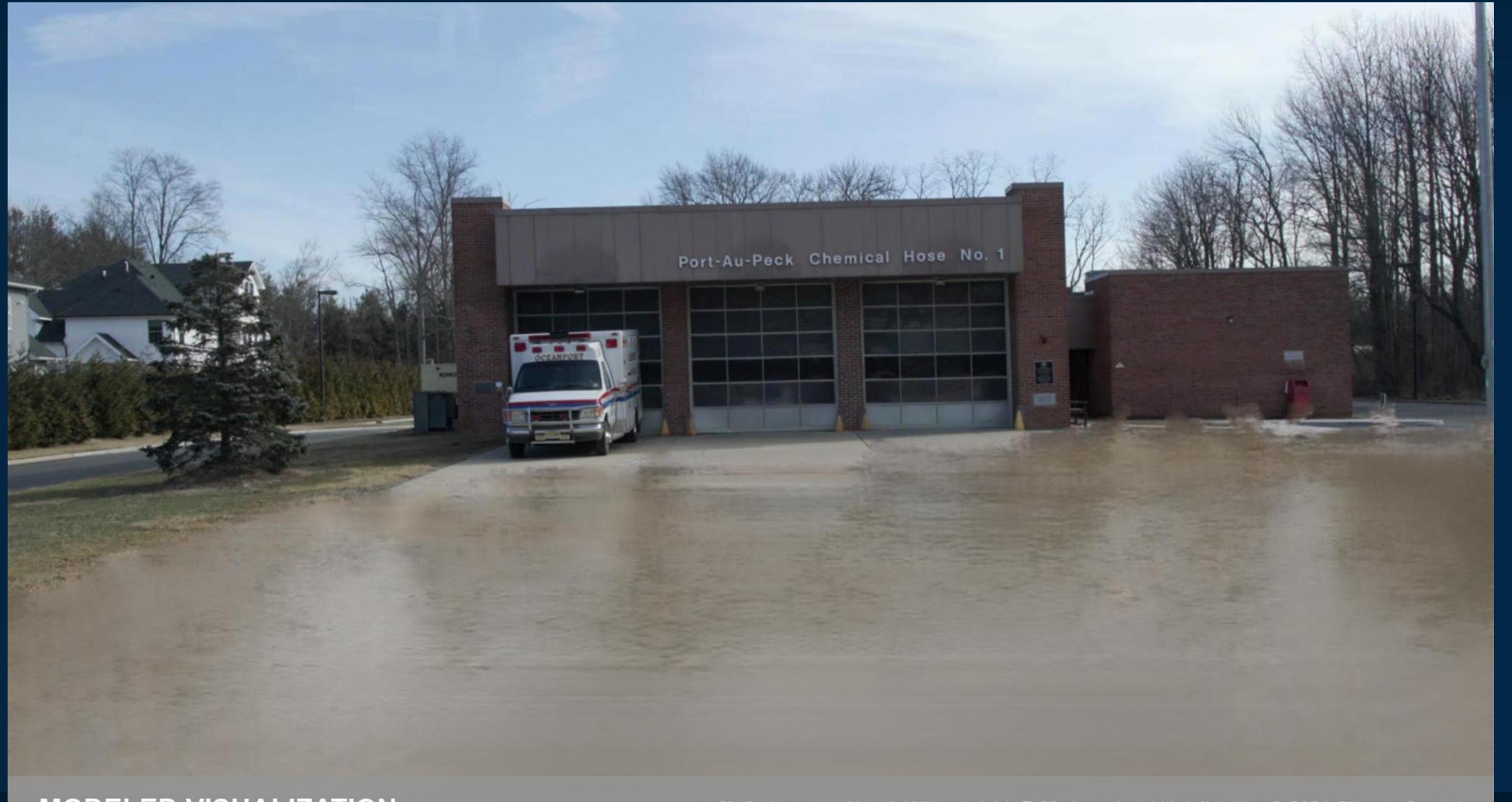
MODELED VISUALIZATION

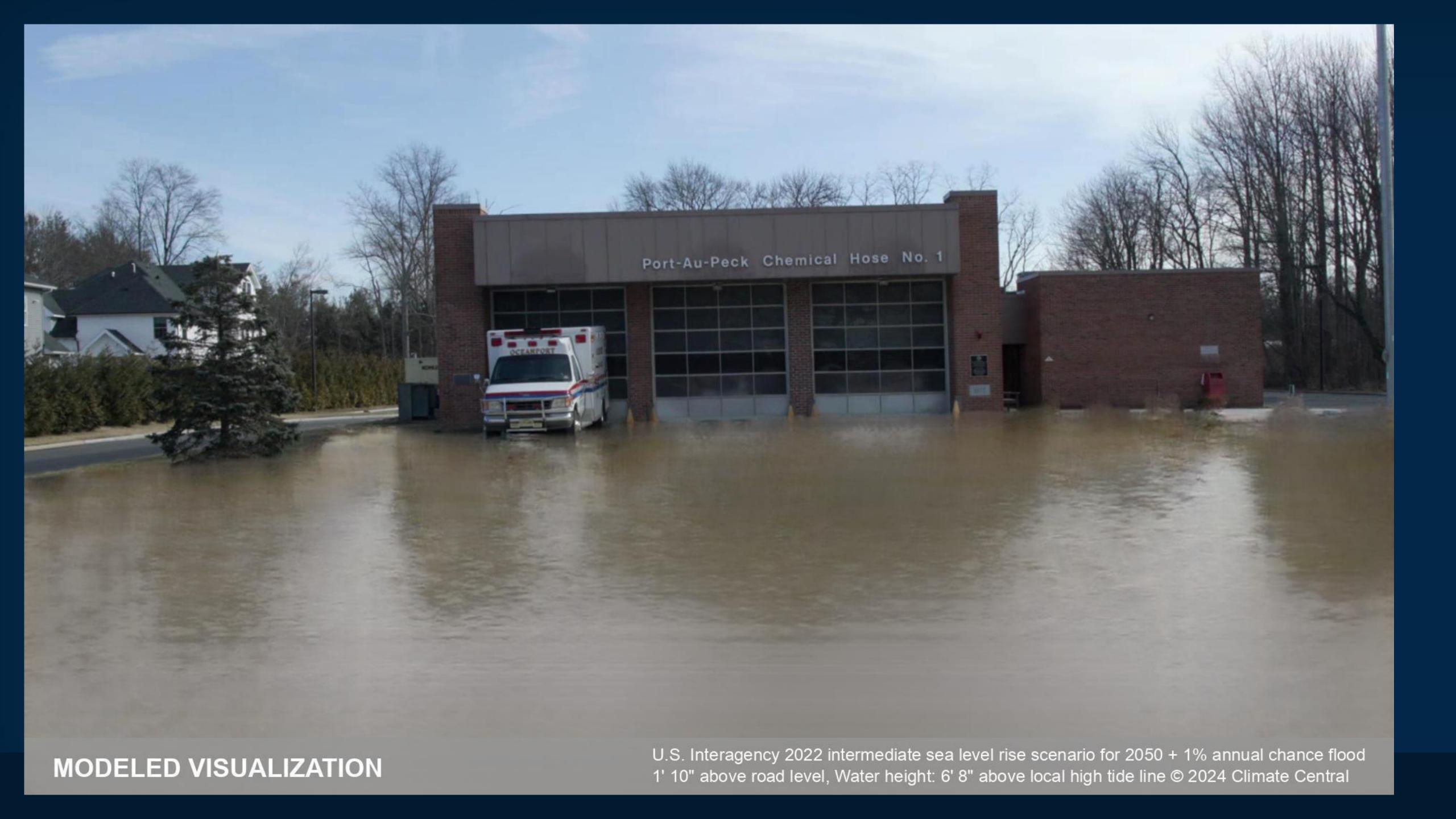
U.S. Interagency 2022 intermediate sea level rise scenario for 2100 + 10% annual chance flood 3' 0" above road level, Water height: 7' 6" above local high tide line © 2024 Climate Central



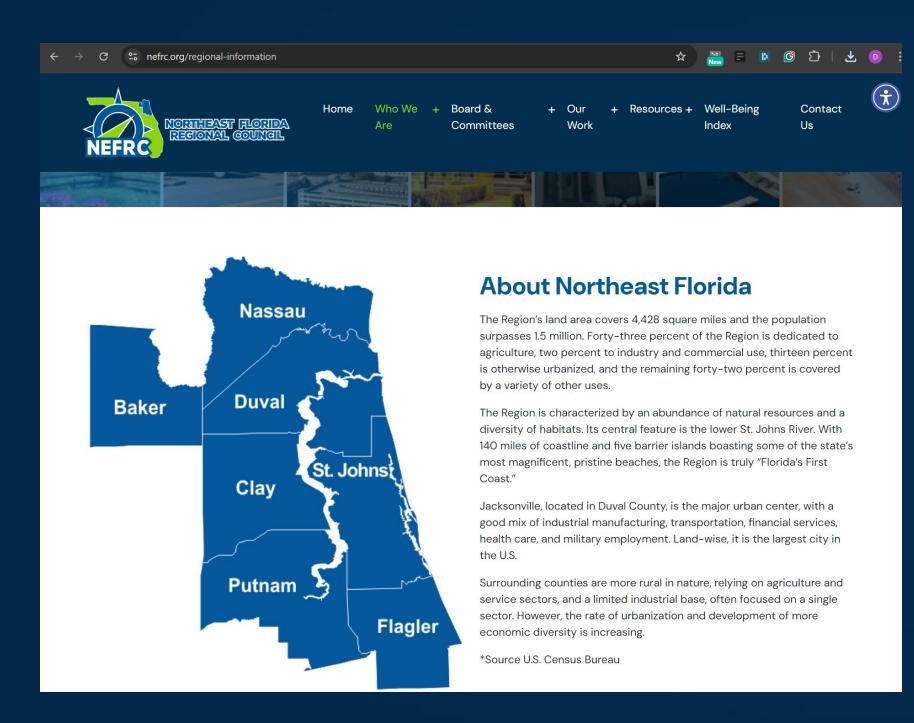
FloodVision in use: Oceanport, NJ







FloodVision in use: NE Florida Regional Council





Fara Ilami Regional Resiliency Manager Northeast Florida Regional Counci



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7386 Back St, Easton, MD ...

7386 Back St, Easton, MD ... Easton

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38.75

38.75

< 2 of 5 >

2601 Dr. M.L.K. Jr St S, St. Petersburg, FL 33705, USA

U.S. Interagency 2022 intermediate sea level rise scenario for 2100 + Annual flood



Click image to download

Have Questions? See how FloodVision is being used Learn about licensing FloodVision

4.64

U.S. Interagency

U.S. Interagency

MD_Easton_20240820-Easton-MD_2_p_0009625.jpg

MD_Easton_20240820-Easton-MD_2_p_0009625.jpg

Where should we drive?

Are you interested in having FloodVision visit and collect data near you?

Please tell us your thoughts via the form found at https://bit.ly/floodvision



Dan Rizza

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Allison Kopicki akopicki@climatecentral.org



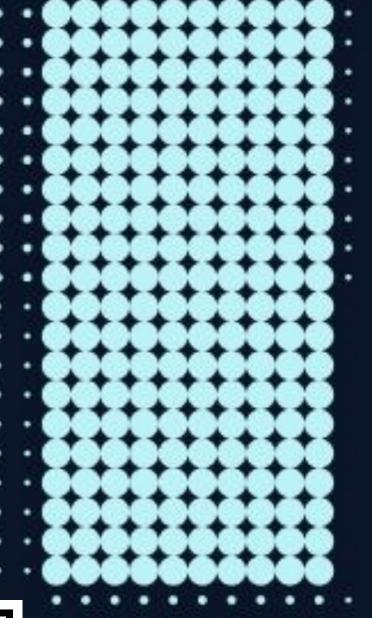
Agenda

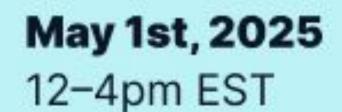
1 Introduction2 The Road to Resilience3 Q&A





Smart solutions for stronger, safer communities.





SIGN UP



Thank you!

JT White jt@withforerunner.com

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Allison Kopicki akopicki@climatecentral.org