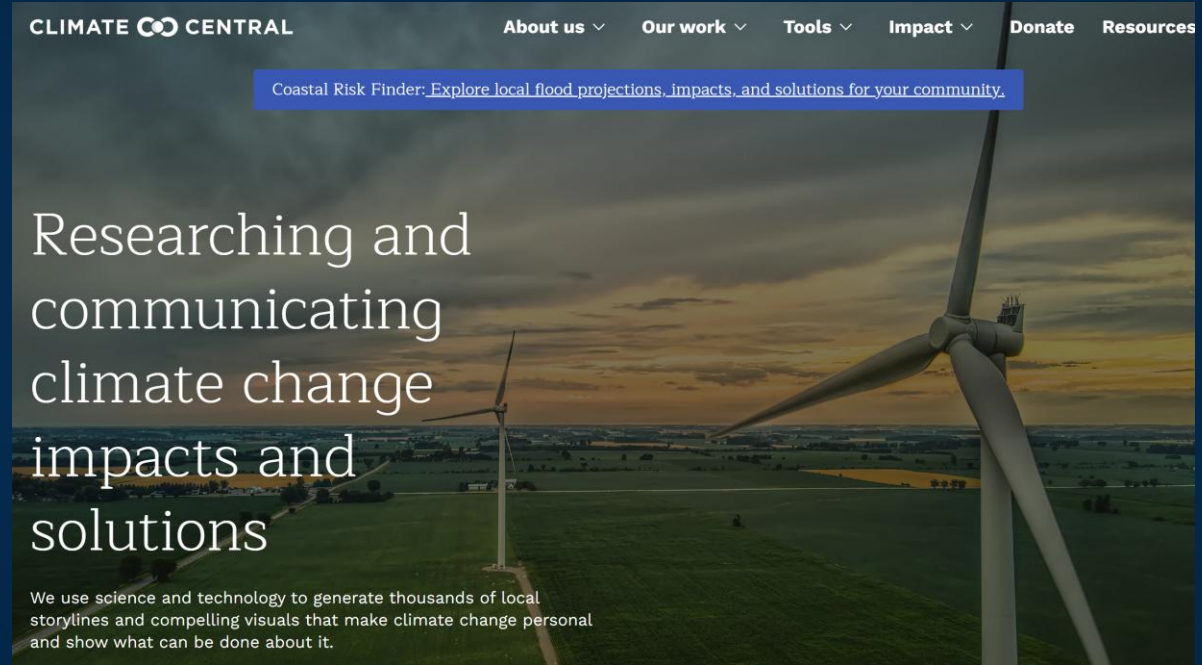


# Tracking Down Data

Where to find?  
What's going on?

**Tom Di Liberto**  
Climate Scientist  
Media Director, Climate Central



CLIMATE  CENTRAL

**Science Made Clear,  
Science Made Local.**

We use science and technology to generate thousands of local storylines and compelling visuals that make climate change personal and show what can be done about it.

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CLIMATE  CENTRAL

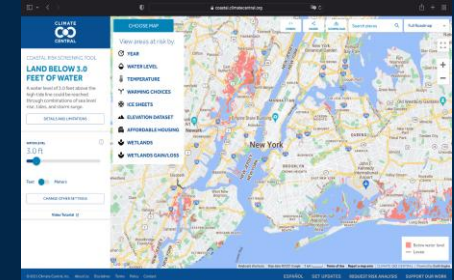
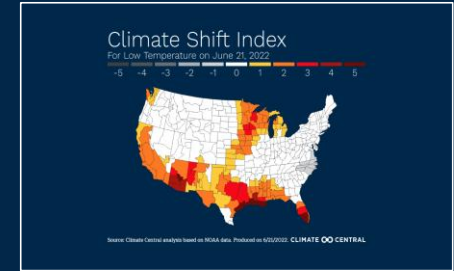


CLIMATE  CENTRAL

Providing localized and evidence-based information on climate science, impacts, & solutions.

Generating local storylines and compelling visuals.

Non-profit, Non-partisan, Non-advocacy



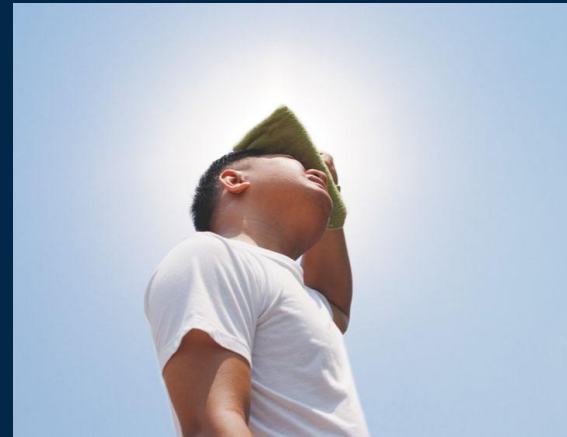
# The dangerous impacts of climate change are accelerating...



COASTAL FLOODING



INFRASTRUCTURE DAMAGE



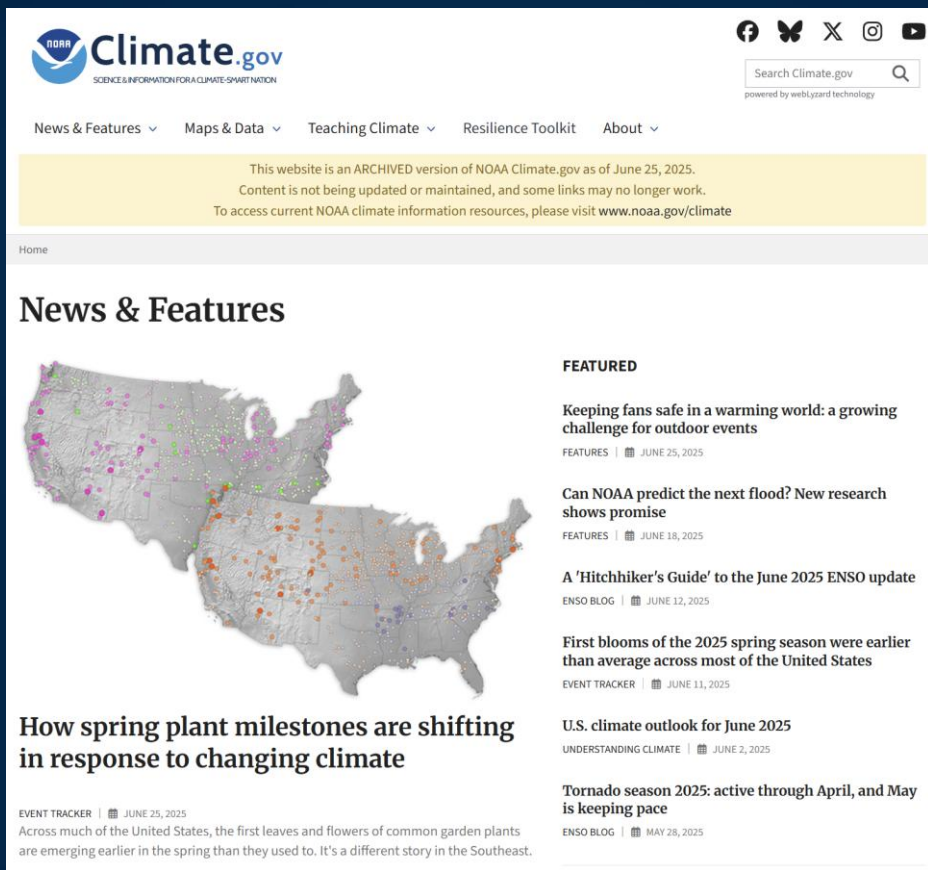
EXTREME HEAT

**...and require faster, more effective responses.**

# Data and services that have disappeared

US Global Change Research Program (USGCRP)  
National Climate Assessment (NCA)  
Climate Change Indicators Website  
EPA Climate Change Indicators  
Elements of the National Snow and Ice Data  
Center  
Climate.gov

# Not just a loss of data but also of stories



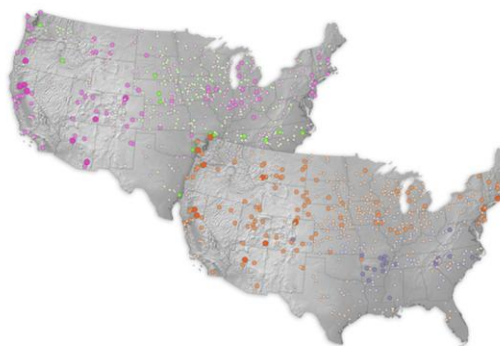
**Climate.gov**  
SCIENCE & INFORMATION FOR A CLIMATE-SMART NATION

News & Features ▾ Maps & Data ▾ Teaching Climate ▾ Resilience Toolkit About ▾

This website is an ARCHIVED version of NOAA Climate.gov as of June 25, 2025.  
Content is not being updated or maintained, and some links may no longer work.  
To access current NOAA climate information resources, please visit [www.noaa.gov/climate](http://www.noaa.gov/climate)

Home

## News & Features



### How spring plant milestones are shifting in response to changing climate

EVENT TRACKER | JUNE 25, 2025  
Across much of the United States, the first leaves and flowers of common garden plants are emerging earlier in the spring than they used to. It's a different story in the Southeast.

### FEATURED

- Keeping fans safe in a warming world: a growing challenge for outdoor events**  
FEATURES | JUNE 25, 2025
- Can NOAA predict the next flood? New research shows promise**  
FEATURES | JUNE 18, 2025
- A 'Hitchhiker's Guide' to the June 2025 ENSO update**  
ENSO BLOG | JUNE 12, 2025
- First blooms of the 2025 spring season were earlier than average across most of the United States**  
EVENT TRACKER | JUNE 11, 2025
- U.S. climate outlook for June 2025**  
UNDERSTANDING CLIMATE | JUNE 2, 2025
- Tornado season 2025: active through April, and May is keeping pace**  
ENSO BLOG | MAY 28, 2025

# Climate Services Program

- Products and transparent, science-grounded research that helps decision-makers understand risk and advance preparedness
- Partnerships that deliver tools, visuals, and analysis



# Contributions of climate change to extreme heat events

CLIMATE CENTRAL

Copy Link

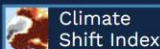
Screenshot Map

EN

Explore our new  
CSI: Ocean map

Climate Shift  
Index® Global Map

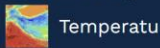
Select type of map:



Climate Shift Index



Temperature anomaly



Temperature

City

Type a city name

Date

Mar 24, 2026

Single date

Multi-day average

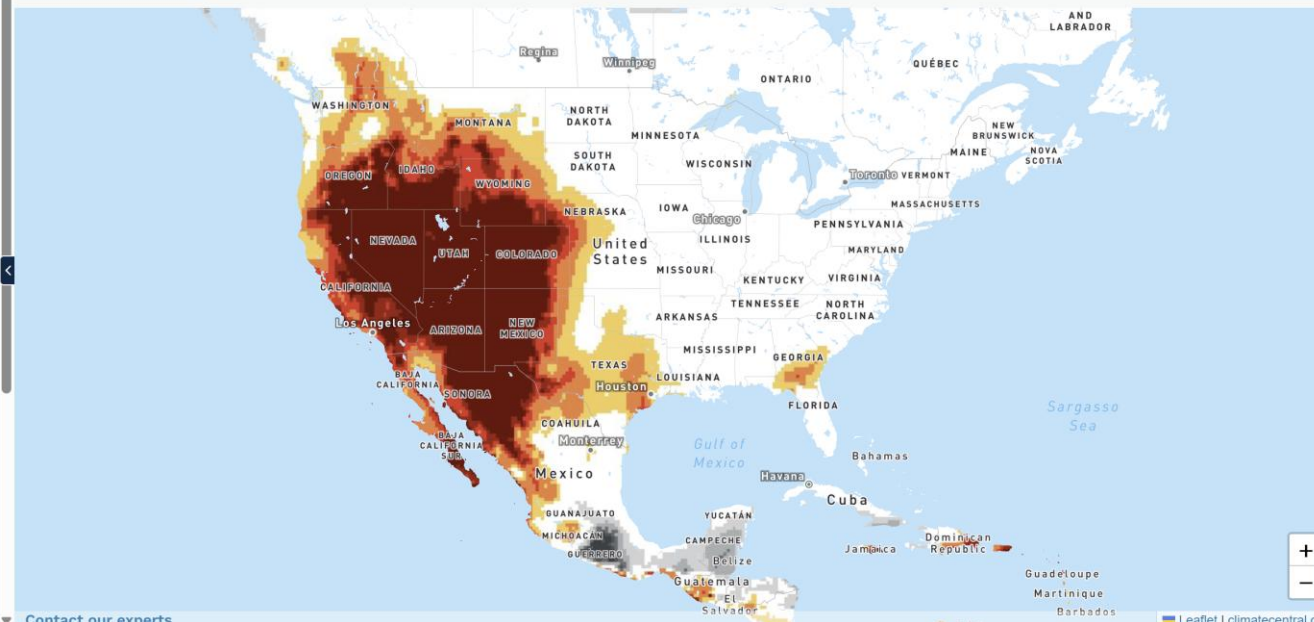
Advanced settings



CSI data in  
KML  
format

Climate Shift Index Learn more...  
for average temperatures, Mar 24, 2026

Change in likelihood due to climate change



# Contributions of climate change to hurricane intensity

What's this? See  
FAQ →

Climate Shift Index:  
Ocean

Select map:



Climate Shift  
Index: Ocean



Sea Surface  
Temperature  
Anomaly



Sea Surface  
Temperature

Date:

◀ Jul 2, 2024 ▶



Show tropical  
cyclones

Tropical Cyclones  
(2024 Atlantic Basin)

Beryl 2024 ▼



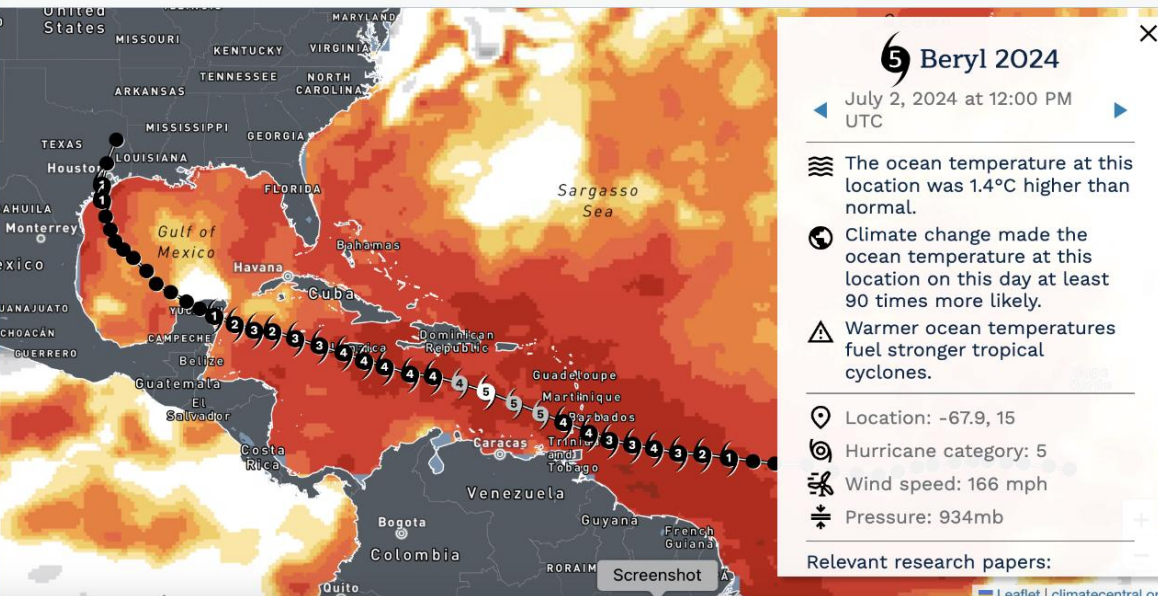
Highlight storm  
points  
associated with  
map date

## Beryl 2024

and Climate Shift Index: Ocean, Jul 2, 2024

Change in likelihood due to climate change

-800x -100x -10x -4x 0 4x 10x 100x 800x



### 5 Beryl 2024

July 2, 2024 at 12:00 PM  
UTC

- The ocean temperature at this location was 1.4°C higher than normal.
- Climate change made the ocean temperature at this location on this day at least 90 times more likely.
- Warmer ocean temperatures fuel stronger tropical cyclones.

- Location: -67.9, 15
- Hurricane category: 5
- Wind speed: 166 mph
- Pressure: 934 mb

Relevant research papers:

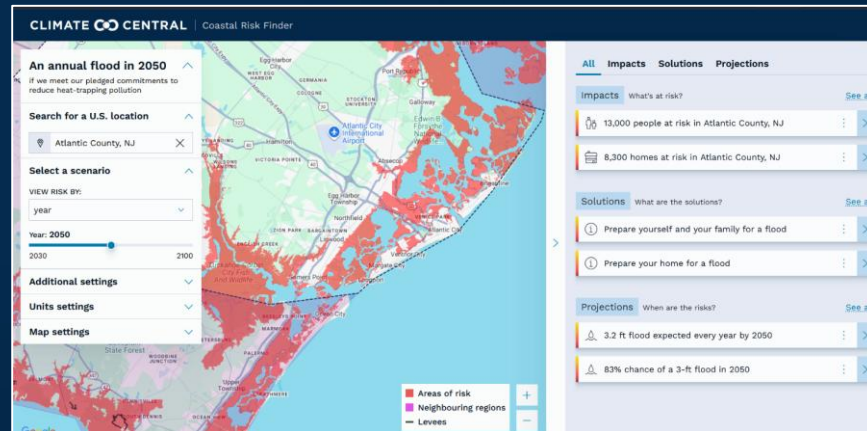
# Predicting potential flooding



FloodVision®



Modeled First  
Floor Elevations



Coastal Risk Finder



In Miami, FL, 19,000 people will be at risk from a 100-year flood by 2050 if we continue on our current heat-trapping pollution pathway.

**Scenario**

Year 2050	Projection type sea level rise + 100-year flood	Pollution pathway reduced commitments	Sea level projection source IPCC 2021
--------------	--	--	--

**People at risk by census tract**

**% of population**

- 50%-100%
- 25%-50%
- 12.5%-25%
- 6.4%-12.5%
- 3.2%-6.4%
- 1.6%-3.2%
- 0.8%-1.6%
- 0.4%-0.8%
- 0.2%-0.4%
- 0.1%-0.2%
- 0%-0.1%



**# of people**

- >10,000
- 5,000-10,000
- 2,000-5,000
- 1,000-2,000
- 500-1,000
- 200-500
- 100-200
- 50-100
- 20-50
- 10-20
- 0-10



**Share or download**

[Download data](#)
[Download PNG](#)
[Share](#)

# Products to Inform and Educate

Preserving sources of data and ensuring that climate data is disseminated

# THE MONTHLY CLIMATE BRIEF

## Insights for informed decisions

Tune in monthly for accessible and actionable climate information for decision-makers, the public, and media.

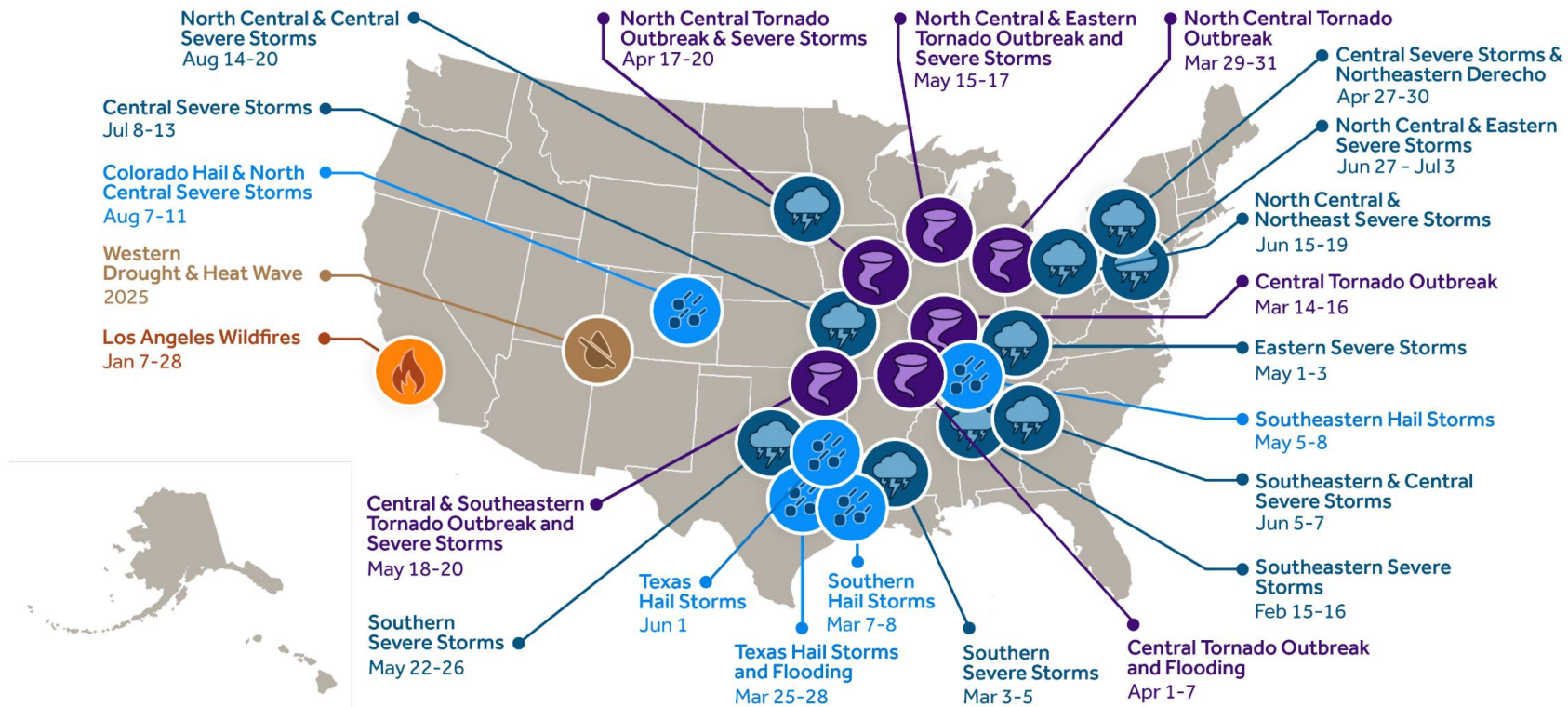
- **Monthly statistics**
- **Shareable graphics**
- **Expert interviews**
- **U.S. Billion Dollar Disasters**
- **and more**

### Upcoming webinar schedule (12:00 PM EST):

- **May 14**
- **June 16**
- **July 15**
- **August 19**



# U.S. 2025 Billion-Dollar Weather & Climate Disasters



This map shows the approximate location for each of the 23 separate billion-dollar weather and climate disasters that impacted the United States from January-December of 2025.

# New disaster impact research

- Analysis of \$100M+ disasters
- Severe Storm events by primary their damage drivers (i.e., tornado outbreaks, hailstorms or wind/derecho events)
- Individual Wildfire Events

# Sign ups/Resources:

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- Climate Matters:  
[climatecentral.org/climate-matters](https://climatecentral.org/climate-matters)
- Realtime Climate Alerts:  
[climatecentral.org/realtime-climate](https://climatecentral.org/realtime-climate)
- Resources  
<http://climatecentral.org/resources>  
<https://go.climatecentral.org/climate-services>

tdiliberto@climatecentral.org

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