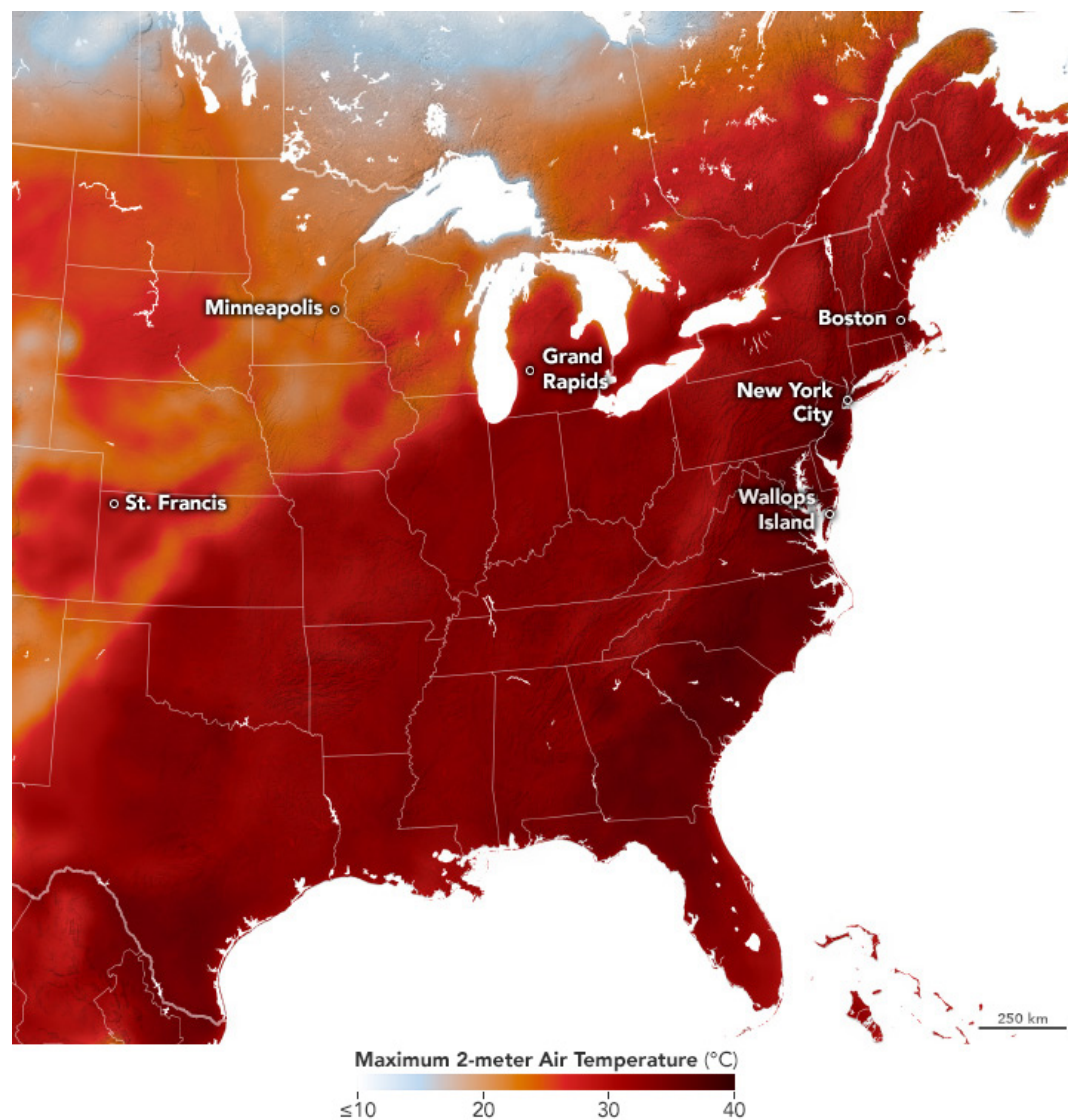


# Sizzling Start to Summer



June 24, 2025

JPEG

The astronomical start to summer was difficult to ignore for tens of millions of people in the United States in 2025. A heat dome brought several days' worth of scorching daytime temperatures, coupled with high humidity and warm nights, to many central and eastern states. New temperature records were set in Minnesota, Maryland, Vermont, and many places in between.

This map shows air temperatures across the eastern U.S. on June 24, 2025, at 2 p.m. Eastern Time, modeled at 2 meters (6.5 feet) above the ground. It was produced by combining satellite observations with temperatures predicted by a version of the GEOS (Goddard Earth Observing System) model, which uses mathematical equations to represent physical processes in the atmosphere. The darkest reds indicate areas where temperatures approached 40 degrees Celsius (104 degrees Fahrenheit).



[View this area in EO Explorer](#)

**The eastern United States sweltered under high heat and humidity in late June 2025, breaking temperature records across the Midwest and Northeast.**

Image of the Day for June 26, 2025

**Instrument:**

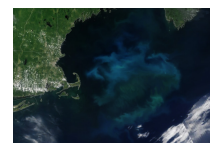
Model

[Image of the Day](#)

[Heat](#)

Temperature Extremes

**View more Images of the Day:**



Jun 25, 2025



Jun 27, 2025



The extreme temperatures were due to a large area of high pressure in the upper atmosphere, often referred to as a heat dome, that traps heat and humidity in the lower atmosphere, meteorologists explained. Intense heat afflicted the eastern U.S. starting June 21, with the most hazardous conditions creeping eastward from the country’s interior over several days.

The National Weather Service issued heat advisories for broad swaths of the Midwest, Northeast, and Southeast on June 24, as well as extreme heat warnings for areas along the eastern seaboard from North Carolina to Maine. High humidity boosted the heat index to over 100°F in some places. The higher the heat index, which indicates how hot it feels when accounting for both temperature and relative humidity, the harder it is for the human body to cool itself.

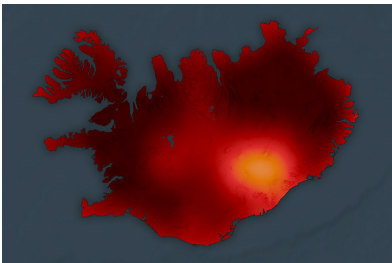
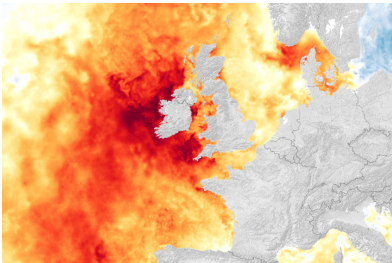
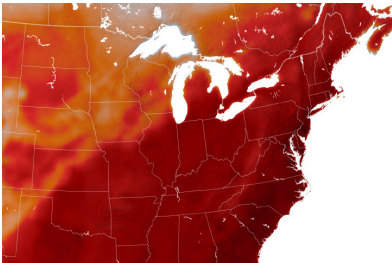
Seven states in the Northeast—Connecticut, Maine, Maryland, Massachusetts, New Hampshire, Rhode Island, and Vermont—tied or broke monthly high temperature records on June 24. On that day, both Boston and New York City (John F. Kennedy International Airport) reached highs of 102°F (39°C), setting new June records for those places.

In the preceding days, central and midwestern regions felt the brunt of the extreme heat. On June 22, Eau Claire, Wisconsin, reached its warmest-ever daily low of 82°F (28°C), according to news reports. Grand Rapids, Michigan, and Wallops Island, Virginia, among other locations, set or tied June records for warm daily lows. Also on that day, Minneapolis, Minnesota, set a daily record high of 96°F (36°C), and St. Francis, Kansas, was the hottest place in the country at 104°F (40°C)—more scorching than Death Valley, California.

*NASA Earth Observatory image by Wanmei Liang, using GEOS data from the Global Modeling and Assimilation Office at NASA GSFC. Story by Lindsey Doermann.*

# Heat and Drought in the Northern Hemisphere

Unusual warmth and deficits in rain and snow can have profound effects on ecosystems and water resources.



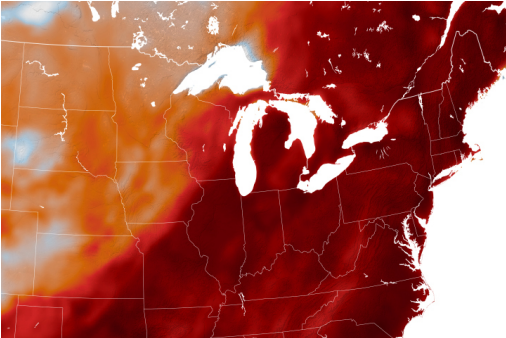
## References & Resources

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NASA Earthdata Heat Data Pathfinder. Accessed June 25, 2025.

*The Washington Post* (2025, June 22) Here’s where the U.S. will see record-breaking heat. Accessed June 25, 2025.

The Weather Channel (2025, June 25) The June, Even All-Time, Heat Records Set Or Tied In The Northeast, Midwest, So Far. Accessed June 25, 2025.



Image

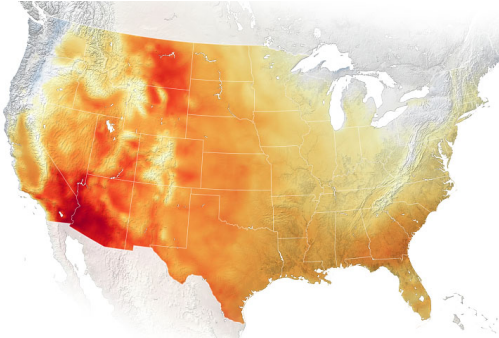
## A Blast of Heat in the East

A heat dome broke temperature records in the U.S. Midwest and Northeast.

Image of the Day

Heat

Temperature Extremes



Image

## Records Fall in Early Summer Heatwave

Extreme heat has descended on the southwestern United States, with several states enduring temperatures near and above record highs for June.

Image of the Day

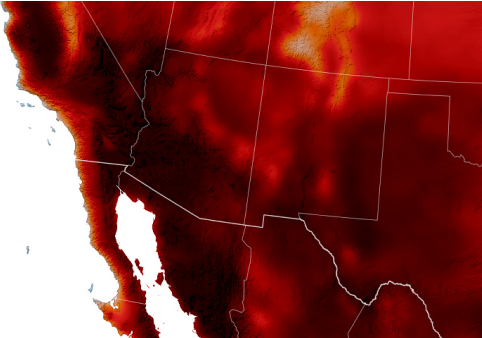
Heat

Land

Floods

Severe Storms

Remote Sensing



Image

## Heat Scorches U.S. Southwest

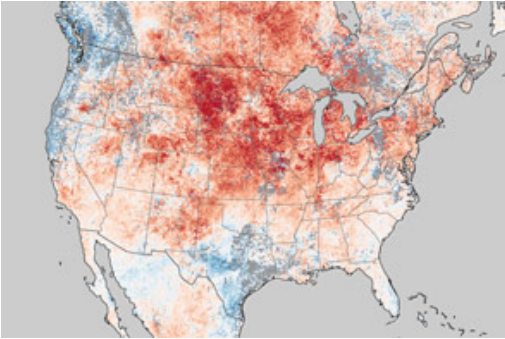
An early summer heat wave broke temperature records in Nevada, Arizona, and California in June 2024.

Image of the Day

Atmosphere

Heat

Temperature Extremes



Image

## Historic Heat in North America Turns Winter to Summer

Unseasonably warm temperatures broke records across the United States.

Image of the Day

Heat

Land

Temperature Extremes