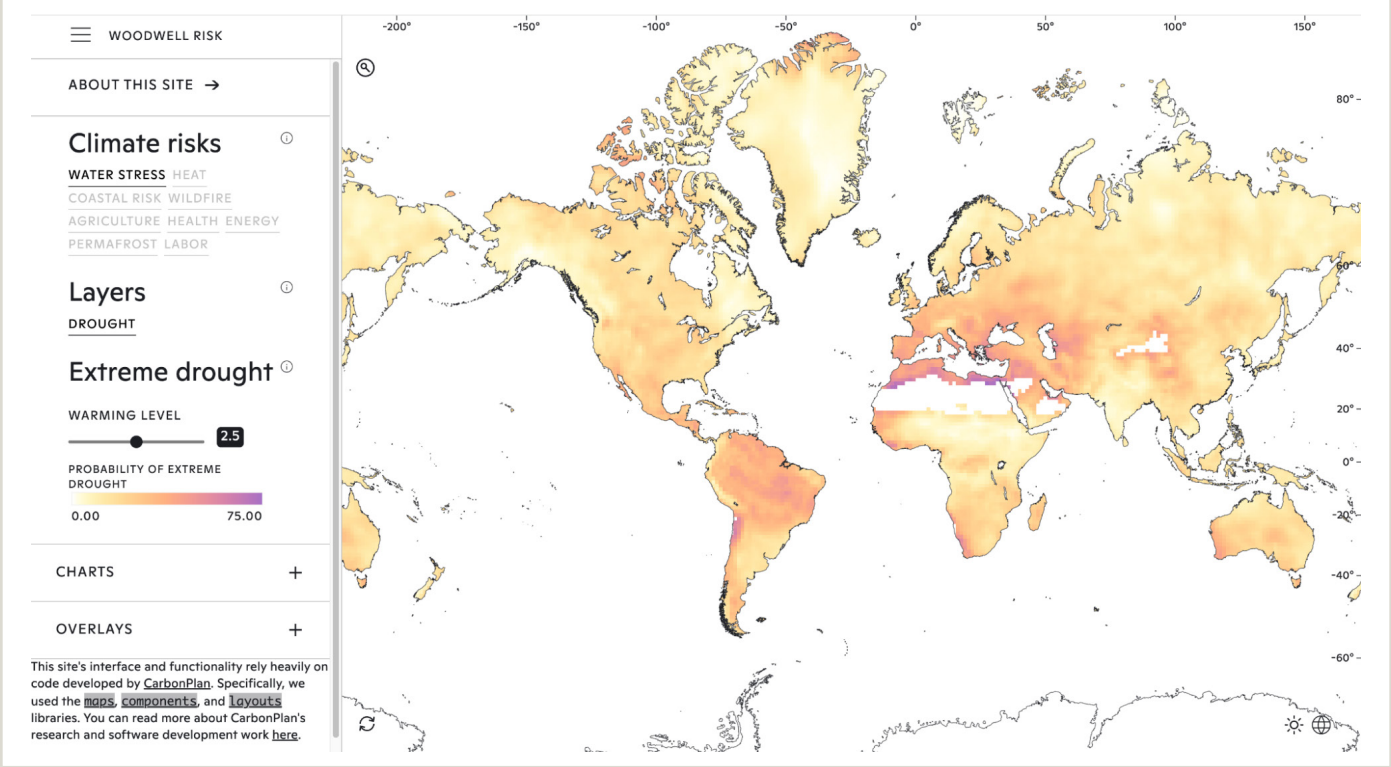
Woodwell Climate Research Center

Woodwell's Climate Risk Viewer

An open access data tool to support adaptation and resilience from local to global levels



Woodwell appreciates the opportunity to present observations-based tools for climate action for Earth Information Day 2026 at COP 31. This note introduces the Climate Risk Viewer (CRV).

The CRV is a free, web-based data visualization tool that brings Woodwell's climate risk data together on a single global map. Users can explore local to global spatial patterns for a variety of climate hazards and view how annual trends or extreme events change over warming levels or time periods. The CRV displays information on droughts, hot days and warm nights, lethal heat, annual precipitation, sea level rise, tropical cyclones, permafrost loss, agricultural yields, and wildfire danger.

The tool offers a consolidated, globally consistent resource, shaped by lessons from our community resilience work through the Just Access initiative. The current version offers a 25 km resolution, and is intended to complement our local high-resolution climate risk assessments.

The CRV is available online with no paywall or geographic restrictions, and its code is open source. It is accompanied by a research page that documents the methodologies used.

Woodwell is developing the tool further and we plan to release new layers for wildfire smoke exposure and mortality, global tree equity, extreme precipitation, among others. We welcome suggestions for improvement in light of national priorities and international frameworks such as the Global Goal on Adaptation and National Adaptation Plans.

More information on the CRV, as well as the associated data and methods, are available at woodwellrisk.github.io/viewer and woodwellrisk.github.io.

Woodwell experts will be on the ground at COP 31 to provide further information and to connect with anyone interested in our research. You can find more information about our presence at woodwellclimate.org/woodwell-climate-cop31.

WOODWELL is a leading climate research center bringing world-class science to real-world solutions that protect life and livelihoods.

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