



## 2023 in Review

22.12.2023 21:48

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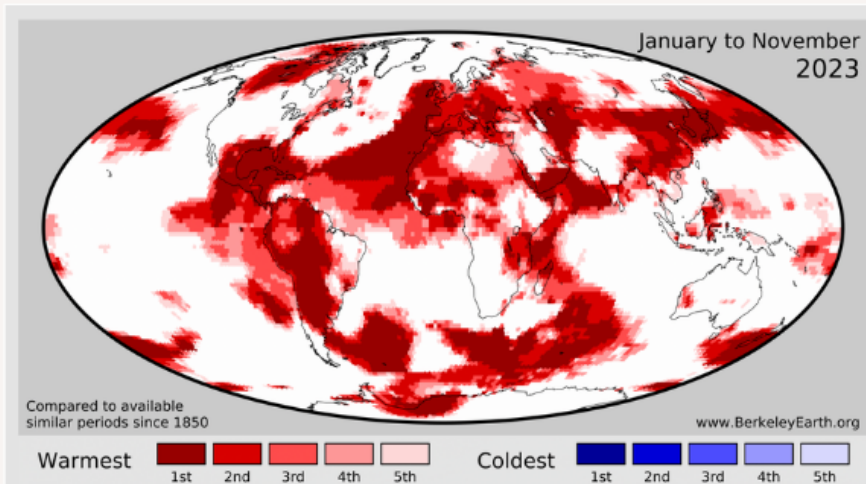
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## 2023 in Review

2023 was a milestone year for the climate, with a strong El Niño and other natural and man-made factors contributing to record-setting warmth. Below we take a look back at some of the superlatives that defined 2023 as we await the final results in our 2023 Annual Temperature Report in January. All of us at Berkeley Earth thank you for your continued support, and wish you and yours a healthy and prosperous new year.



**99%**

Likelihood that 2023 will be the first year with an annual average temperature anomaly above 1.5°C in the Berkeley Earth record

**1.82°C**

The September 2023 global mean temp anomaly relative to the pre-industrial average, the largest such anomaly ever recorded.

**>99%**

Chance that 2023 will be the warmest year on record,

**6**

Consecutive months of record monthly global mean temperatures (June-November)

**Wp T**

**Bloomberg**

**AXIOS WIRED**

**9700**

Media mentions of Berkeley Earth's data, analysis, and commentary



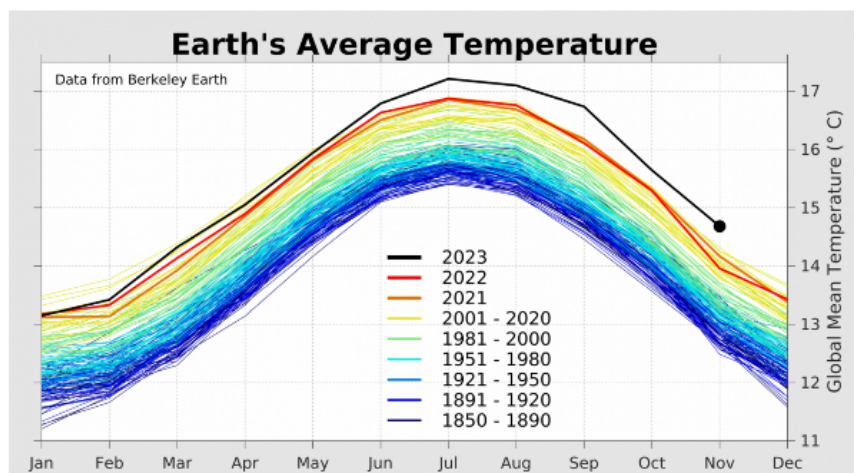
**127,000**  
Users of Berkeley  
Earth's open-source  
data and analysis

Berkeley Earth is an independent 501c3 non-profit producing world-leading open-source climate data and analysis. Your tax-deductible contribution helps support our continued work providing accessible, high-quality temperature and air quality data used by more than 120,000 researchers, journalists, policymakers, students, and other stakeholders around the world. We thank you for your continued support of Berkeley Earth.

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### Berkeley Earth's Top Five Data Visualizations of 2023

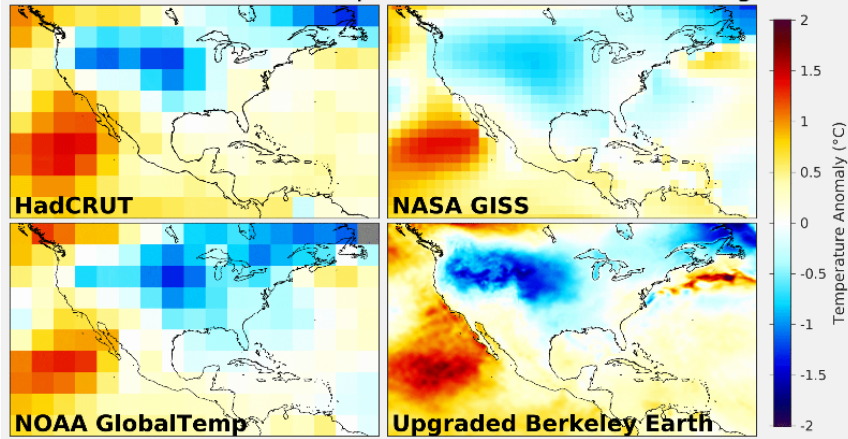
1) *Six straight months of record-setting warmth*



Following a record-setting Northern Hemisphere summer (June-July-Aug) the last three months (Sept-Oct-Nov 2023) stand as the largest single-month temperature anomalies on record. This remarkable warmth in the second half of 2023 has made it nearly certain (99% chance) that 2023 will be the first year with a global mean temperature 1.5° warmer than the pre-industrial average. [Source: [November 2023 Temperature Update](#)]

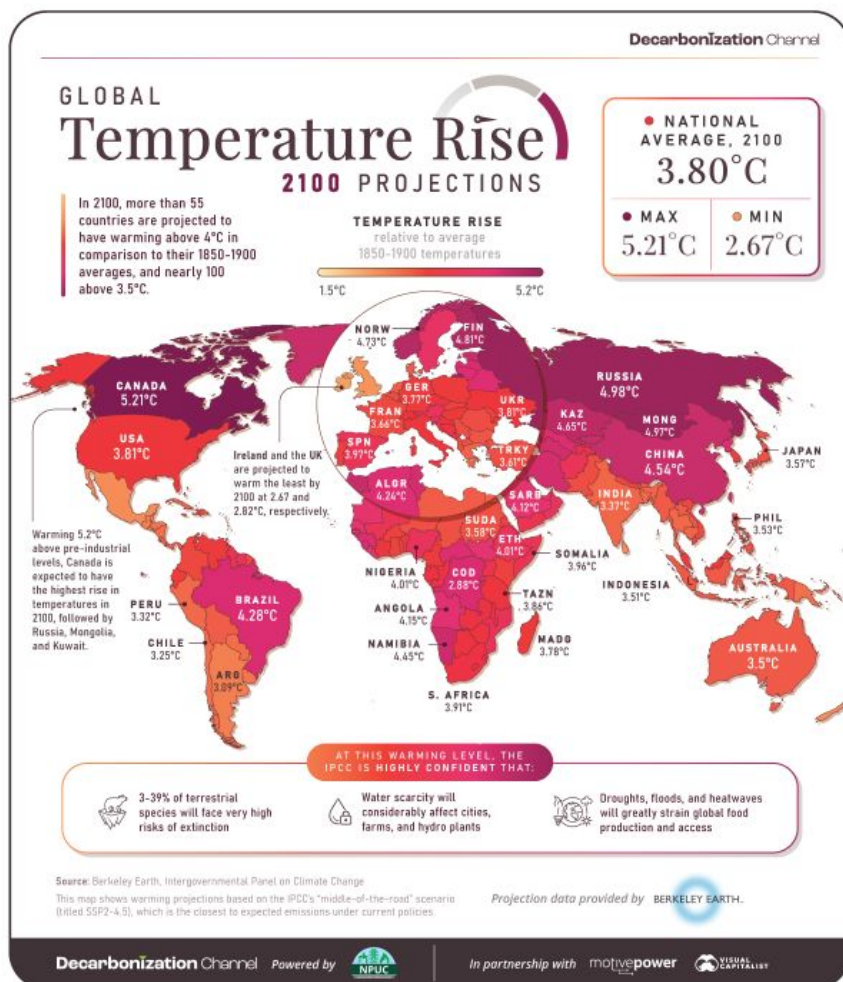
2) *Berkeley Earth's high-resolution data set beta launch*

### Reconstruction Comparison (1993 Annual Average)



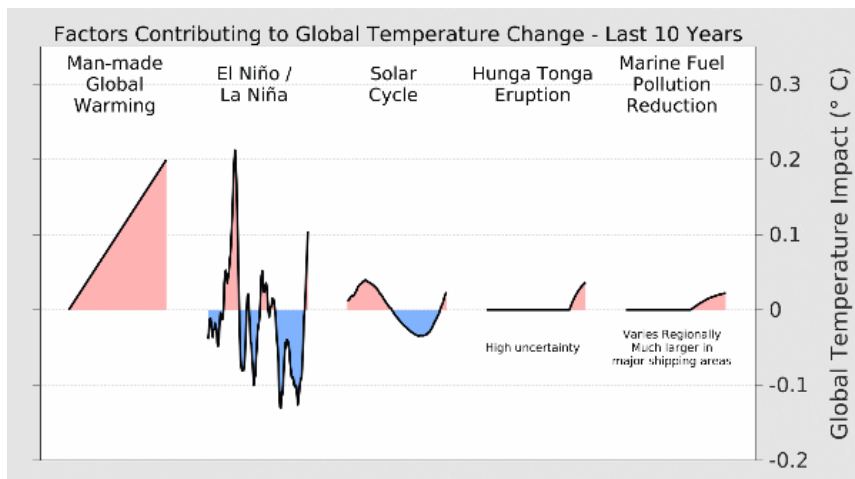
In March 2023 Berkeley Earth released the beta version of our high-resolution temperature data set, providing unprecedented detail and the highest spatial resolution of any instrumental data set on the market (0.25° x 0.25°). Final results are expected to be published in early 2024. [Source: [Introducing the Berkeley Earth High-Resolution Data Set](#)]

### 3) Visualizing global temperature rise for the Decarbonization Channel



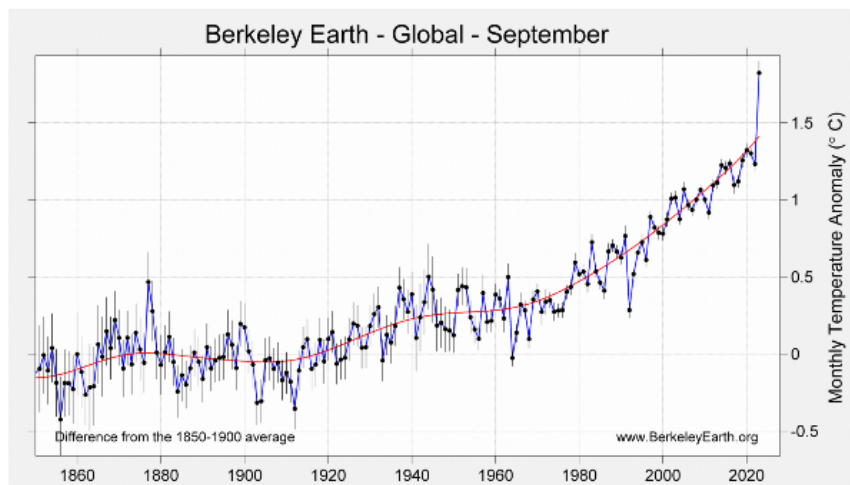
Visual Capitalist partnered with Berkeley Earth to visualize [national-level warming projections](#) for the Decarbonization Channel. Data shown represents Berkeley Earth's estimated warming levels according to the IPCC's SSP2-4.5 warming scenario. [Source: [The Decarbonization Channel](#)]

### 4) Forcing factors behind global temperature change



Originally published in our July 2023 Temperature Update, this schematic illustrates the relative impacts of the natural and man-made forcing factors behind 2023's record warmth. [Source: [November 2023 Temperature Update](#)]

##### 5) The "absolutely gobsmackingly bananas" September temperature anomaly



September 2023 was the warmest September on record by 1.82°C, the largest monthly anomaly on record, breaking the previous monthly record by 0.5°C (and [challenging the limits](#) of our vocabulary). [Source: [September 2023 Temperature Update](#)]

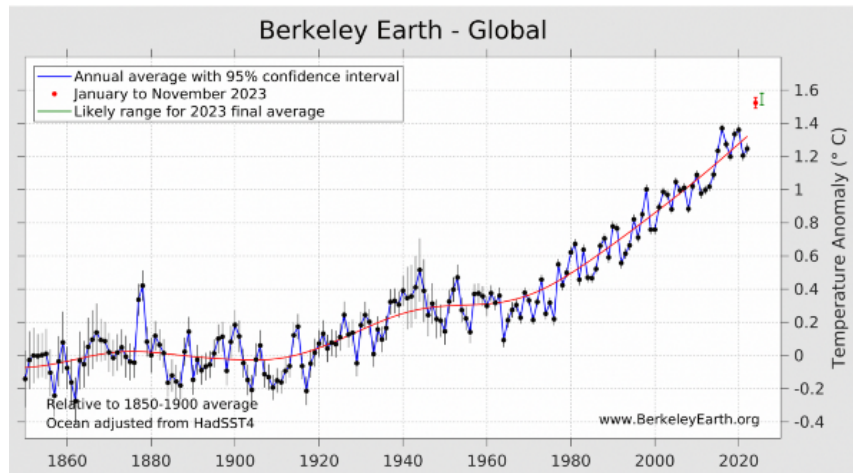
## Berkeley Earth's Top Media Coverage in 2023

- *New York Times Opinion* - [I study climate change. The data is telling us something new.](#)
- *Wired* - [September's record-shattering heat was 'absolutely gobsmackingly bananas'](#)
- *Nature* - [Earth's average 2023 temperature is now likely to reach 1.5°C of warming](#)
- *The New York Times* - [Ocean temperatures are hotter than ever; what does it mean for Earth?](#)
- *Bloomberg* - [2023 is already on track to be the hottest ever recorded](#)
- *The Hill* - [A glimpse of optimism on climate change](#)

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## Coming Soon: Berkeley Earth's 2023 Global Temperature Report



With one month remaining, we anticipate 2023 will be the first year in Berkeley Earth's record with a global mean temperature 1.5°C warmer than the pre-industrial average.

Our 2023 Global Temperature Report will be published on **Friday, January 12th, 2024**.

For embargoed media access, please email [media@berkeleyearth.org](mailto:media@berkeleyearth.org).

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