

Understand the WARMING STRIPES BANNER



What are warming stripes?

Warming stripes are a visual way of depicting the changes in global temperature due to anthropogenic climate change.

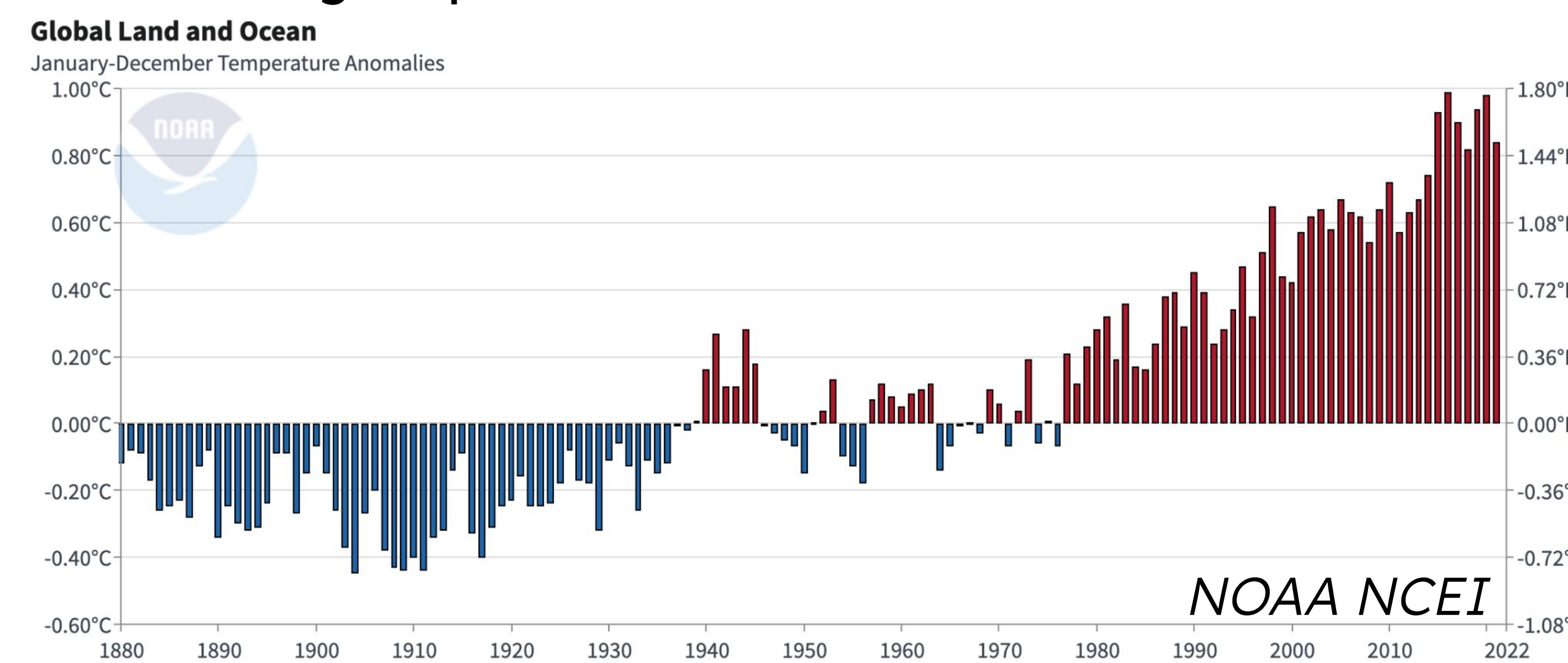
How do the colors show temperature?

First, scientists calculate the average global temperature over the entire 20th century from January 1, 1900 through December 31, 1999. Then they compare the average global temperature of each year from 1800 to 2021 to the 20th century average.

Years that were colder than the 20th century average are depicted in blue in the banner, with darker blue indicating coldest years. Years that were warmer than the 20th century average are shown with yellows, oranges and reds, with dark red indicating the warmest years.

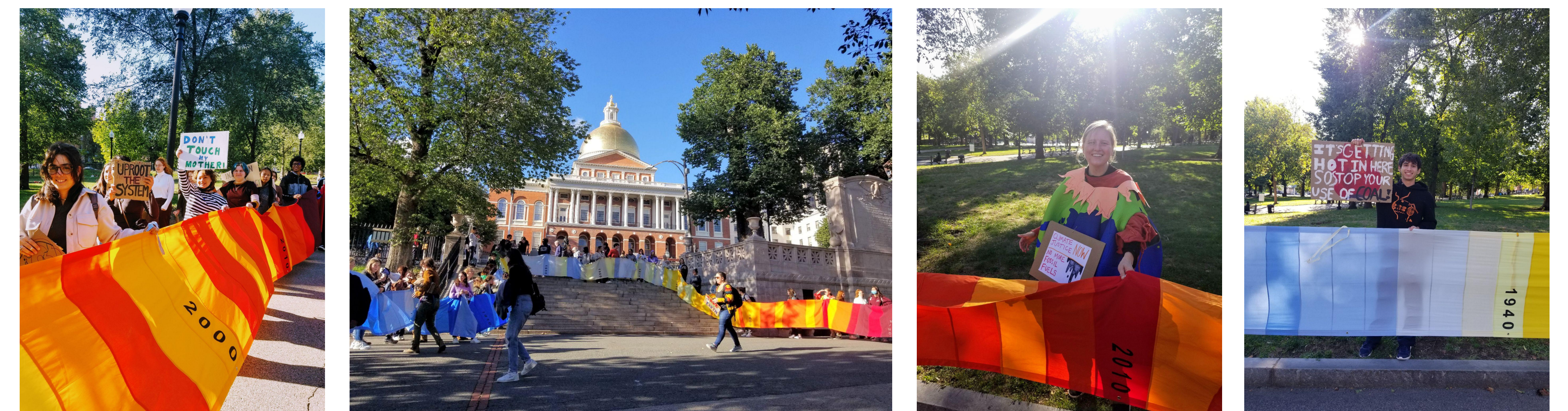
The colorbar to the left shows the temperature that each color in the banner represents. For example, years depicted in bright yellow were between 0.2 to 0.3°C warmer than the 20th century average.

Plotted in a traditional graph, the temperature data used in the warming stripes banner looks like this:



What is Brandeis' Year of Climate Action?

This year is devoted to deepening our understanding of climate change as a social justice issue through our incredible lineup of curricular and co-curricular programming. In addition to educational opportunities, we are launching several institutional initiatives to reduce our climate impacts, from our decarbonization study to organic land management practices, an energy efficiency project database and more.



Photos by Jazz Dottin

How will Brandeis students use the banner?

The banner was first carried by Brandeis students at a climate rally in downtown Boston in September 2022. As part of Brandeis' Year of Climate Action, it will be displayed around campus throughout 2022-2023.

Who made the banner?

This banner was sewn by Prof. Sally Warner, with help from Julia Birnbaum, Laurel Carpenter, Jazz Dottin, Mary Fischer, Samara Glazer, Mazzi Ingram, Caren Irr, Rachel Kramer Theodorou, Keyan Li, Andie Sheinbaum, Sherry Tao, Gabo Torres Houser, and Kaleigh Yee. Funding was generously provided by the Brandeis Sustainability Fund.

How do I learn more about climate change?

If you want to learn more about climate change and climate solutions, the Brandeis Environmental Studies program offers a wide range of climate changed-focused courses and a minor in Climate Justice, Science, and Policy.

References

Data comes from the National Oceanic and Atmospheric Administration's National Centers for Environmental Information: www.ncei.noaa.gov. The concept of Warming Stripes was first created by Professor Ed Hawkins: showyourstripes.info

THE YEAR OF
**CLIMATE
ACTION**