

# NOAA Natl. Climate Data Center

## Climate at a Glance

### Global Time Series

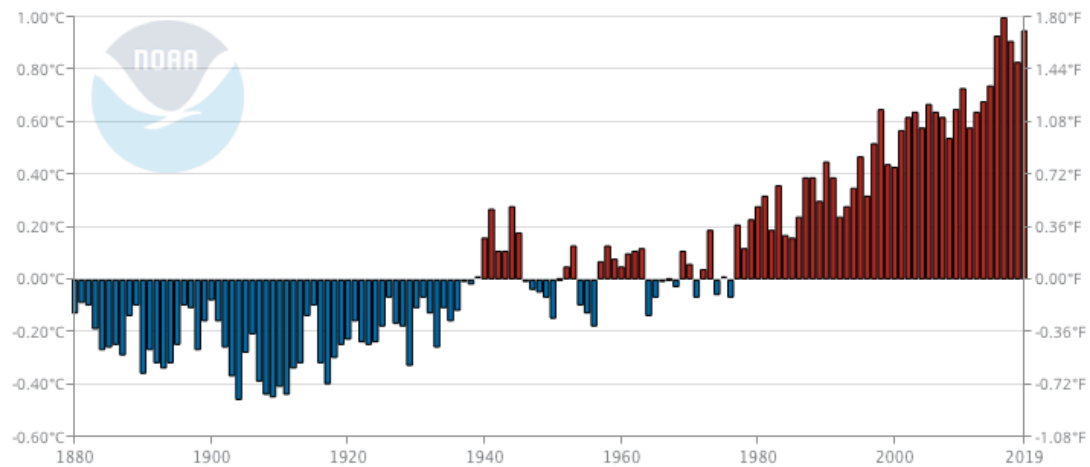
[https://www.ncdc.noaa.gov/cag/global/time-series/globe/land\\_ocean/ytd/12/1880-2019](https://www.ncdc.noaa.gov/cag/global/time-series/globe/land_ocean/ytd/12/1880-2019)

<https://www.climate.gov/news-features/understanding-climate/climate-change-global-temperature>

#### Highlights:

- 2020 was the second-warmest year on record based on NOAA's temperature data, and land areas were record warm.
- Averaged across land and ocean, the 2020 surface temperature was 1.76° F (0.98° Celsius) warmer than the twentieth-century average of 57.0°F (13.9°C) and 2.14° F (1.19°C) warmer than the pre-industrial period (1880-1900).
- Despite a late-year La Niña event that cooled a wide swath of the tropical Pacific Ocean, 2020 came just 0.04° Fahrenheit (0.02°C) shy of tying 2016 for warmest year on record.
- Earth's temperature has risen by 0.14° F (0.08° C) per decade since 1880, and the rate of warming over the past 40 years is more than twice that: 0.32° F (0.18° C) per decade since 1981.
- The 10 warmest years on record have occurred since 2005.
- From 1900 to 1980 a new temperature record was set on average every 13.5 years; from 1981–2019, a new record was set every 3 years.
- [Full 2020 report](#)

Global Land and Ocean  
January–December Temperature Anomalies



Download: [XML](#)  

YEAR	ANOMALY (1901-2000 BASE PERIOD)	RANK
2019	0.95°C	139
2018	0.83°C	136
2017	0.91°C	137
2016	1.00°C	140
2015	0.93°C	138
2014	0.74°C	135
2013	0.68°C	133
2012	0.64°C	129
2011	0.58°C	124
2010	0.73°C	134
2009	0.65°C	131

## State of the Climate

### Assessing the Global Climate in February 2021

Coldest February for the globe since 2014; significant cool temperature departures across North America and northern Asia

<https://www.ncei.noaa.gov/news/global-climate-202102>