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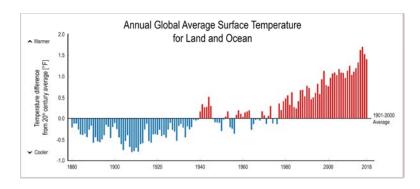
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Land and ocean surface temperatures are increasing

Since 1880's, the average global temperature has increased by more than 1.5°F. Since the 1980's, average temperatures have exceeded the last century's average every year.



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The bars on the graph show the number of degrees by which the average global temperature for each year differs from the average global temperature during the last century (1901-2000).

WHY IT'S IMPORTANT

discussions.

Changes in global temperatures

over the past century provide one

important line of evidence for the

effects of increasing greenhouse gas

emissions. Such evidence can inforr national and international policy

About Global Surface Temperatures

Global average temperatures include air temperatures measured on land and sea surface temperatures measured from ships and buoys worldwide. The data shown in the graph were drawn from the National Oceanic and Atmospheric Administration (NOAA) Global Historical Climatology Network (GHCN) and International Comprehensive Ocean-Atmosphere Data Set (ICOADS).

Related Resources

- <u>Climate.gov Climate Change: Global Temperature</u>
 https://nca2014.globalchange.gov/highlights/regions/southwest#graphic-20925
- Climate.gov Global Climate Dashboard https://nca2014.globalchange.gov/highlights/regions/southwest#graphic-20925
- EPA Climate Change Indicators: U.S. and Global Temperature https://www.epa.gov/climate-indicators/climate-change-indicators-us-and-global-temperature
- NASA Global Temperature https://climate.nasa.gov/vital-signs/global-temperature/
- NOAA Climate at a Glance https://www.ncdc.noaa.gov/cag/global/time-series/globe/land-ocean/ytd/12/1880-2016

Explore USGCRP Indicators









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<u>USGCRP Indicators Fact Sheet</u>
 https://www.globalchange.gov/sites/globalchange/files/usgcrp%
 20indicators march2018-final newsletter%20version 23may18.pdf>

- Fourth National Climate Assessment

 https://nca2018.globalchange.gov/
- <u>Climate Science Special Report</u> https://science2017.globalchange.gov/

Indicator Announcements and Opportunities

- Upcoming Workshop on Social Indicators
 https://www.sesync.org/project/propose-a-workshop/socio-environmental-systems-indicators-for-climate-change-adaptation
- Arctic Observing Network

 <https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503222>
- NOAA Funding Opportunities for Developing Indicators (FY19 NOAA/CPO/MAPP)

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