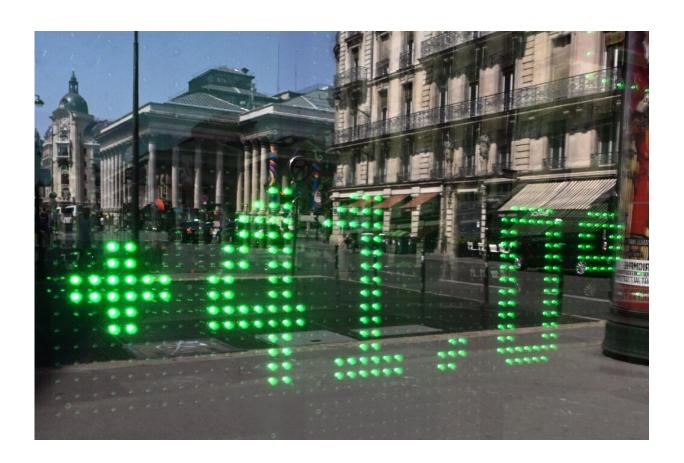


From Europe to the Arctic, temperature records tumble in 2019

July 26 2019, by Amélie Bottollier-Depois And Patrick Galey



Europe has endured two exceptionally strong heatwaves in a matter of weeks

"We" may only be just over halfway through it, but 2019 has already seen temperature records smashed from Europe to the Arctic circle and could prove to be one of the hottest ever recorded.



Numerous studies have shown that heatwaves such as the one that baked northern Europe this week are made more likely by climate change, and as man-made greenhouse gas emissions continue to rise, 2019 fits a general warming trend.

Hottest June

This June was the hottest on record, beating out June 2016—so far the hottest year ever.

The record was breached due to an exceptionally strong European heatwave. The continent's June temperatures were around two degrees Celsius (3.6 Farenheit) hotter than average, according to the EU's Copernicus climate monitor.

Temperatures were also notably higher than historic averages in South America, the US atmospheric monitor NOAA said.

Temperature records tumble

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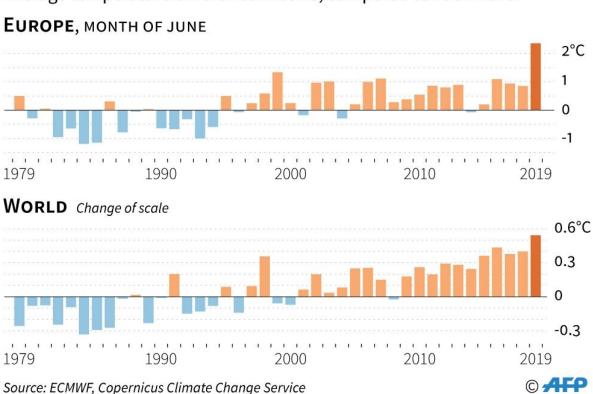
Record highs tumbled across France, with the mercury peaking at 46C on June 28 in the southern town of Verargues. The previous record, set back in 2003, was 44.1C.

The second wave of heat this week saw Paris's all-time high pulverised: Meteo-France measured 42.6C in the French capital on Thursday—more than 2C hotter than the previous high, set more than 70 years ago.



Hottest June on record

Average temperature difference in June, compared to 1981-2010



Average temperature difference in June, compared to the 1981-2010 period

Germany, Belgium and the Netherlands all also registered all-time high temperatures.

The World Weather Attribution service this month said June's heatwave was made between 5 and 100 times more likely by man-made climate change.

"Since 2015, we've seen extreme heatwaves every year in Europe," said Robert Vautard, a climatologist at France's Laboratory of Climate and



Environment Sciences.

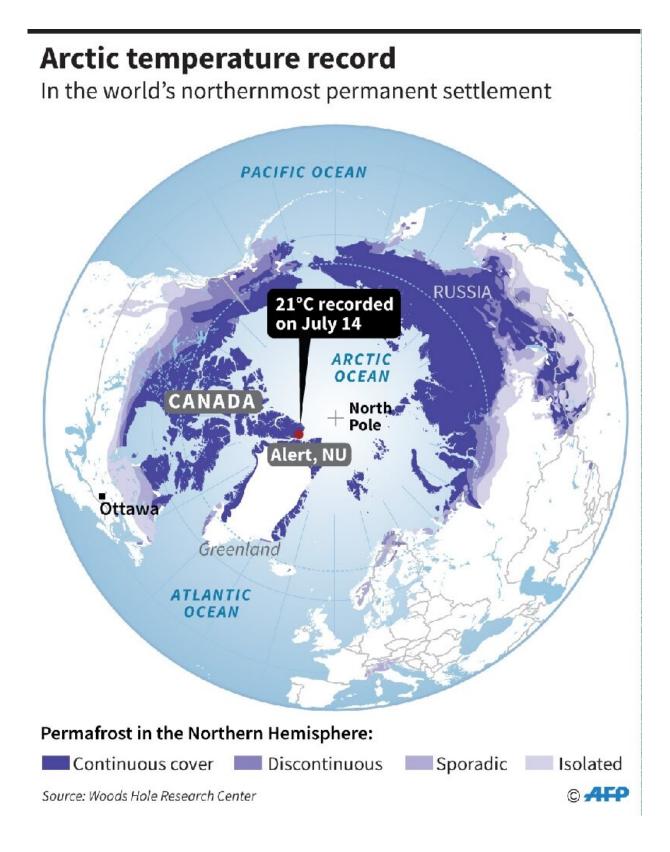
The first half of 2019 also saw intense heatwaves in Australia, India, Pakistan and parts of the Middle East, according to the World Meterological Organisation (WMO).

Arctic heatwaves

In mid-July, for the first time on record, thermometers read 21C in Alert, a Canadian outpost that is the most northern settlement on Earth, around 900 kilometres from the North Pole.

That beat the previous record set in 1956, but the number of days where temperatures reach 19-20C have shown a marked increase since 2012.





Map showing Alert, the world's northernmost settlement, which recorded record



temperature on July 14, as well as permafrost areas in the Northern Hemisphere

Hottest year?

The last four years are the hottest on <u>record</u>.

Last year was fourth on the list, with an average surface temperature of 1C above pre-industrial levels.

2016 still holds the crown as the hottest year in human history—a full 1.2C above average, aided by a powerful El Nino warming event.

According to the NOAA, the period of January-June 2019 was the second hottest ever measured, hotter even than the same period in 2016.

The WMO estimates 2019 will be among the top five hottest years, and that 2015-2019 will be the hottest five year period ever recorded.

Three papers released this week showed that Earth's <u>temperature</u> was currently warming at a rate and uniformity unparalleled in the past 2,000 years.

Atmospheric CO₂ levels are currently around 415 parts per million—the highest concentration in three million years.

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