

# Last 4 years hottest on record, UN confirms

February 6 2019, by Patrick Galey, With Kerry Sheridan In Tampa

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Wildfires in 2018 brought destruction to Paradise, California

The last four years were the hottest since global temperature records began, the UN confirmed Wednesday in an analysis that it said was a "clear sign of continuing long-term climate change."

The UN's World Meteorological Organization said in November that

2018 was set to be the fourth warmest year in recorded history, stressing the urgent need for action to rein in runaway planetary warming.

On Wednesday it incorporated the final weeks of last year into its [climate models](#) and concluded that average global surface temperature in 2018 was 1 degree Celsius (1.8 Fahrenheit) above pre-industrial baseline levels.

2016, boosted by a strong El Nino that normally tips the mercury northwards, remains the hottest year on record.

The 20 warmest years in history all occurred within the last 22 years.

"The long-term [temperature](#) trend is far more important than the ranking of individual years, and that trend is an upward one," said WMO Secretary-General Petteri Taalas.

"The degree of warming during the past four years has been exceptional, both on land and in the ocean."

The WMO said heightened temperatures also contributed to a number of [extreme weather events](#) such as hurricanes, droughts and flash flooding.

"Many of the extreme weather events are consistent with what we expect from a changing [climate](#). This is the reality we need to face up to," Taalas said.

The UN body also said that 2019 had picked up where 2018 left off, with Australia experiencing its warmest January on record. It warned that intense heatwaves "are becoming more frequent as a result of climate change."

## **Costly disasters**

Similar reports on climate trends released by the US space agency NASA and the US National Oceanic and Atmospheric Administration (NOAA) confirmed that last year was the fourth warmest in modern times.

Sea ice cover in the Arctic and Antarctic both marked the second lowest ever observed.

Meanwhile, there were 14 weather-related disasters costing one billion dollars or more.

"The 14 events, in total, claimed at least 247 lives and cost \$91 billion," NOAA said in a statement.

"About \$73 billion of this total was attributable to three events: Hurricanes Michael (\$25 billion) and Florence (\$24 billion), and the complex of western wildfires (\$24 billion)."

## **Effects of climate change**

As parts of the mid-western United States were gripped by a "polar vortex" last week that saw temperatures plunge to lows of -64 degrees Fahrenheit (-53C), US President Donald Trump suggested that the cold weather front cast doubt over the veracity of climate change data.

"What the hell is going on with Global Waming? (sic) Please come back fast, we need you!" he said on Twitter.

Taalas said that the deadly cold snap was entirely consistent with the effects of man made climate change, including the warming of the poles.

"A part of the cold anomalies at lower latitudes could be linked to

dramatic changes in the Arctic," he said.

"What happens at the poles does not stay at the poles but influences weather and climate conditions in lower latitudes where hundreds of millions of people live."

As much of world continues to rely on fossil fuels, greenhouse gases will keep mounting, trapping heat in the atmosphere.

Rowan Sutton, director of science for the National Centre for Atmospheric Science (NCAS) said that will likely mean more heat records in the years to come.

"Over the next five years the high temperatures seen recently are likely to be sustained and that further warming may well occur, perhaps reaching new record levels for annual average temperatures," he said.

Brian Hoskins, chair of the Grantham Institute at Imperial College London, agreed.

"Our lack of decisive action over climate change makes us like a climber ascending a mountain, knowing that there will not be enough oxygen at some height, yet still we go on," he said.

"Not every individual step takes us nearer disaster, but as confirmed by the Met Office, our general direction is clear."

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Citation: Last 4 years hottest on record, UN confirms (2019, February 6) retrieved 20 September 2024 from <https://phys.org/news/2019-02-years-hottest.html>

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