

Broken record: March is 10th straight month to be hottest on record, scientists say

April 9 2024, by Suman Naishadham



A volunteer distributes drinking water next to a bus stand on a hot summer day in Hyderabad, India, Thursday, March 21, 2024. Another month, another heat record for the planet. Earth just had its warmest March ever recorded, the 10th month in a row to set such a record, according to the European Union climate agency Copernicus. Credit: AP Photo/Mahesh Kumar A., File



For the 10th consecutive month, Earth in March set a new monthly record for global heat—with both air temperatures and the world's oceans hitting an all-time high for the month, the European Union climate agency Copernicus said.

March 2024 averaged 14.14 degrees Celsius (57.9 degrees Fahrenheit), exceeding the previous <u>record</u> from 2016 by a tenth of a degree, according to Copernicus data. And it was 1.68 degrees C (3 degrees F) warmer than in the late 1800s, the base used for temperatures before the burning of fossil fuels began growing rapidly.

Since last June, the globe has broken heat records each month, with marine heat waves across large areas of the globe's oceans contributing.

Scientists say the record-breaking heat during this time wasn't entirely surprising due to a strong El Niño, a climatic condition that warms the central Pacific and changes global weather patterns.

"But its combination with the non-natural marine heat waves made these records so breathtaking," said Woodwell Climate Research Center scientist Jennifer Francis.

With El Niño waning, the margins by which global average temperatures are surpassed each month should go down, Francis said.

Climate scientists attribute most of the record heat to <u>human-caused</u> <u>climate change</u> from <u>carbon dioxide</u> and methane emissions produced by the burning of coal, oil and natural gas.





A group of students from Ole Miss, the University of Mississippi, dance and sing as they enjoy spring break on South Beach, Friday, March 15, 2024, in Miami Beach, Fla. Another month, another heat record for the planet. Earth just had its warmest March ever recorded, the 10th month in a row to set such a record, according to the European Union climate agency Copernicus. Credit: AP Photo/Rebecca Blackwell, File

"The trajectory will not change until concentrations of greenhouse gases in the atmosphere stop rising," Francis said, "which means we must stop burning fossil fuels, stop deforestation, and grow our food more sustainably as quickly as possible."

Until then, expect more broken records, she said.



Under the 2015 Paris Agreement, the world set a goal to keep warming at or below 1.5 degrees Celsius (2.7 degrees Fahrenheit) since preindustrial times. Copernicus' temperature data is monthly and uses a slightly different measurement system than the Paris threshold, which is averaged over two or three decades.

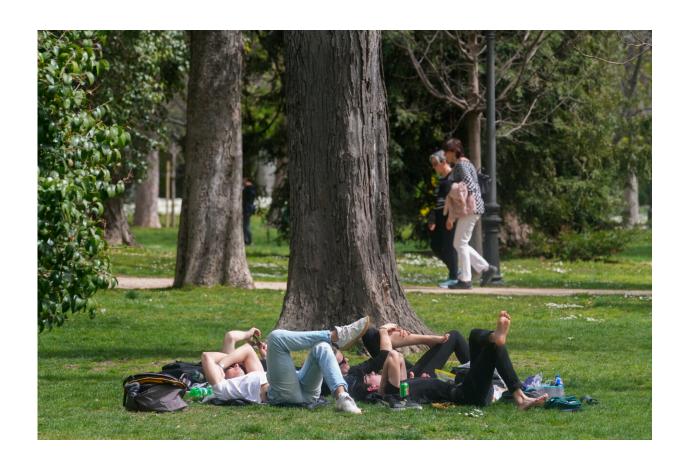
Samantha Burgess, deputy director of Copernicus, said March's recordbreaking temperature wasn't as exceptional as some other months in the past year that broke records by wider margins.

"We've had record-breaking months that have been even more unusual," Burgess said, pointing to <u>February 2024</u> and September 2023. But the "trajectory is not in the right direction," she added.





A man and woman play on the beach as other people enjoy the sea during a hot day in southern coastal city of Larnaca on the Mediterranean island of Cyprus, Sunday, March 31, 2024. Another month, another heat record for the planet. Earth just had its warmest March ever recorded, the 10th month in a row to set such a record, according to the European Union climate agency Copernicus. Credit: AP Photo/Petros Karadjias, File



People relax in the Retiro park in Madrid, Spain, Wednesday, March 20, 2024. Another month, another heat record for the planet. Earth just had its warmest March ever recorded, the 10th month in a row to set such a record, according to the European Union climate agency Copernicus. Credit: AP Photo/Paul White, File



The globe has now experienced 12 months with average monthly temperatures 1.58 degrees Celsius (2.8 degrees Fahrenheit) above the Paris threshold, according to Copernicus data.

In March, global sea surface temperature averaged 21.07 degrees Celsius (69.93 degrees Fahrenheit), the highest monthly value on record and slightly higher than what was recorded in February.

"We need more ambitious global action to ensure that we can get to net zero as soon as possible," Burgess said.

© 2024 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Broken record: March is 10th straight month to be hottest on record, scientists say (2024, April 9) retrieved 21 May 2024 from https://phys.org/news/2024-04-broken-10th-straight-month-hottest.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.