

# *Study finds planet warming at unprecedented rate*

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**Human-induced warming has been increasing at a rate of 0.2 degrees Celsius per decade, scientists say in a new study.**

Paris, June 18 (RHC)-- Global greenhouse gas emissions have reached a record high amid an unparalleled acceleration in global warming, according to a new study. From 2013 to 2022, "human-

induced warming has been increasing at an unprecedented rate of more than 0.2 degrees Celsius per decade,” 50 top scientists warned in a sweeping climate science update.

Average annual emissions over the same period hit an all-time high of 54 billion tonnes of CO<sub>2</sub> or its equivalent in other gases – about 1,700 tonnes every second – they reported in a peer-reviewed study aimed at policymakers.

World leaders will be confronted with the new data at the critical COP28 climate summit later this year in Dubai, where a “Global Stocktake” at the United Nations talks will assess progress towards the 2015 Paris Agreement’s temperature goals. The findings would appear to close the door on capping global warming under the Paris treaty’s more ambitious 1.5C target, long identified as a guard rail for a relatively climate-safe world, albeit one still roiled by severe impacts.

“Even though we are not yet at 1.5C warming, the carbon budget” – the amount of greenhouse gases humanity can emit without exceeding that limit – “will likely be exhausted in only a few years,” said lead author Piers Forster, a physics professor at the University of Leeds.

That budget has shrunk by half since the UN’s climate science advisory body, the Intergovernmental Panel on Climate Change (IPCC), gathered data for its most recent benchmark report in 2021, according to Forster and colleagues, many of whom were core IPCC contributors.

To have even a coin-toss chance of staying under the 1.5C threshold, emissions of carbon dioxide, methane and other drivers of warming generated mostly by burning fossil fuels must not exceed 250 billion tonnes (gigatonnes), they reported.

Bettering the odds to two-thirds or four-fifths would reduce that carbon allowance to only 150Gt and 100Gt, respectively, a two or three-year lifeline at the current rate of emissions.

Keeping the Paris temperature targets in play would require slashing CO<sub>2</sub> pollution by at least 40 percent by 2030, and eliminating it entirely by mid-century, the IPCC has calculated. Ironically, one of the big climate success stories of the last decade has inadvertently hastened the pace of global warming, the new data reveal.

A gradual drop in the use of coal – significantly more carbon intensive than oil or gas – to produce power has slowed the increase in carbon emissions. But it has also reduced the air pollution that shields Earth from the full force of the Sun’s rays. Particle pollution from all sources dampens warming by about half-a-degree Celsius, which means – at least in the short term – more of that heat will reach the planet’s surface as the air becomes cleaner.

Published in the peer-reviewed journal *Earth System Science Data*, the new study is the first in a series of periodic assessments that will help fill the gaps between IPCC reports, released on average every six years since 1988. “An annual update of key indicators of global change is critical in helping the international community and countries to keep the urgency of addressing the climate change crisis at the top of the agenda,” said co-author and scientist Maisa Rojas Corradi, who is also the environment minister of Chile.

Co-author Valerie Masson-Delmotte, a co-chair of the 2021 IPCC report, said the new data should be a “wake-up call” ahead of the COP28 summit, even if there is evidence that the increase in greenhouse gases has slowed. “The pace and scale of climate action is not sufficient to limit the escalation of climate-related risks,” she said.

Researchers also reported a startling rise in temperature increases over land areas – excluding oceans – since 2000. “Land average annual maximum temperatures have warmed by more than half a degree Celsius in the last ten years (1.72C above preindustrial conditions) compared to the first decade of the

millennium (1.22C),” the study reported.

Longer and more intense heat waves will pose a life-and-death threat in the coming decades across large swaths of South and Southeast Asia, along with areas straddling the equator in Africa and Latin America, recent research has shown.

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