

# Global coral bleaching event expanding to new countries: Scientists

May 18 2024, by Lucie AUBOURG

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Corals in Key West, Florida in 2023 -- the world is in the middle of a major coral bleaching incident.

The massive coral bleaching episode signaled by US authorities last month is expanding and deepening in reefs around the globe, scientists

warned Thursday.

Amid record ocean temperatures, [coral bleaching](#) has been recorded in 62 countries and territories since February 2023, the US National Oceanic and Atmospheric Administration (NOAA) said—an increase of nine from its warning in April.

"This event is still growing in size and impacts," Derek Manzello, coordinator for NOAA's Coral Reef Watch program, told a press briefing, adding: "This is not something that would be happening without climate change."

New coral damage since NOAA's April 15 warning was reported in India, Sri Lanka and the Chagos islands in the Indian Ocean, Manzello said.

Severe or prolonged heat stress leads to corals dying off, though there is a possibility for recovery if temperatures drop and other stressors such as overfishing and pollution are reduced.

The consequences of coral bleaching are far-reaching, affecting not only the health of oceans but also the livelihoods of people, food security and local economies.

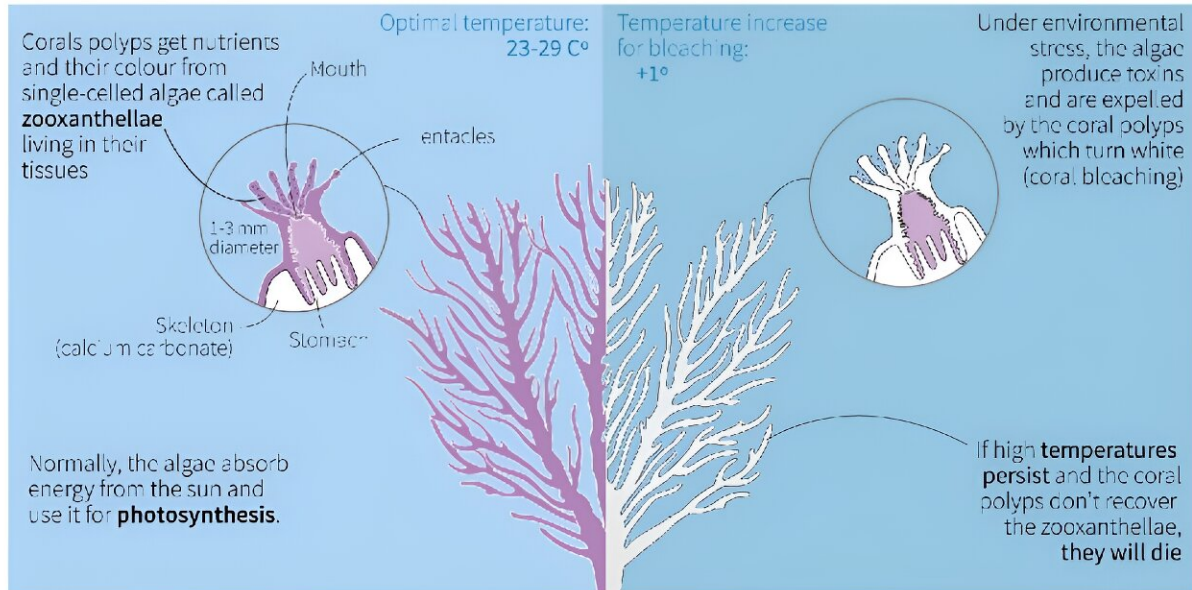
The ongoing mass coral bleaching is the world's fourth on record, with three others occurring between 1998 to 2017.

Some 60.5 percent of the world's reefs have experienced bleach-level heat in the last 12 months, a record, according to NOAA.

The previous widespread global bleaching, which occurred from 2014 to 2017, retains the record for the greatest cumulative impact—for now.

## Coral bleaching

Environmental stress, like high ocean temperature, can cause corals to turn white and, if it persists, die



Source: NOAA



Graphic explaining the process of coral bleaching which can occur following higher than normal ocean temperatures.

Bleaching could further occur at reefs across Asia and off Mexico, Belize, the Caribbean and Florida as oceans continue to heat over the summer, Manzello said.

So far, the Great Barrier Reef off Australia has been hit by bleaching, which is also affecting coral in Thailand.

## Record temperatures

There is a 61 percent chance 2024 will end as the Earth's hottest year on

record and a 100 percent chance it will be one of the top five warmest years, said Karin Gleason, monitoring section chief at NOAA's National Centers for Environmental Information.

Last month, meanwhile, the world's oceans saw their hottest ever April temperatures, a record broken each month for the past 13 months.

"The heat stress accumulation has been most unprecedented and extreme in the Atlantic Ocean," Manzello said.

Understanding the consequences of coral bleaching can take time: in the Caribbean, for example, coral could survive the immediate heat stress only to die later from "disease outbreaks or aggregations of coral predators," Manzello added.

Last year was the hottest year on record, attributed to a gnarly mix of [climate change](#) and the El Niño weather pattern.

This year, as the cooling La Niña pattern takes effect between now and autumn, "my hope is that... we will start seeing that percentage of reef areas impacted start coming down," Manzello said.

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Citation: Global coral bleaching event expanding to new countries: Scientists (2024, May 18) retrieved 10 June 2024 from <https://phys.org/news/2024-05-global-coral-event-countries-scientists.html>

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