

## La Nina, which worsens hurricanes and drought, is gone

March 9 2023, by Seth Borenstein



A house sits in Rock Creek after floodwaters washed away a road and a bridge in Red Lodge, Mont., Wednesday, June 15, 2022. After three nasty years, the La Nina weather phenomenon is gone, the National Oceanic and Atmospheric Administration said Thursday, March 9, 2023. Credit: AP Photo/David Goldman, File

After three nasty years, the <u>La Nina weather phenomenon</u> that increases Atlantic hurricane activity and worsens western drought is gone, the



National Oceanic and Atmospheric Administration said Thursday.

That's usually good news for the United States and other parts of the world, including drought-stricken northeast Africa, scientists said.

The globe is now in what's considered a "neutral" condition and probably trending to an El Nino in late summer or fall, said climate scientist Michelle L'Heureux, head of NOAA's El Nino/La Nina forecast office.

"It's over," said research scientist Azhar Ehsan, who heads Columbia University's El Nino/La Nina forecasting. "Mother Nature thought to get rid of this one because it's enough."

La Nina is a natural and temporary cooling of parts of the Pacific Ocean that changes weather worldwide. In the United States, because La Nina is connected to more Atlantic storms and deeper droughts and wildfires in the West, La Ninas often are more damaging and expensive than their more famous flip side, El Nino, experts said and studies show.

Generally, American agriculture is more damaged by La Nina than El Nino. If the globe jumps into El Nino it means more rain for the Midwestern corn belt and grains in general and could be beneficial, said Michael Ferrari, chief scientific officer of Climate Alpha, a firm that advises investors on financial decisions based on climate.





Residents of Red Lodge, Montana, are seen clearing mud, water and debris from the small city's main street on Tuesday, June 14, 2022, after flood waters courses through a residential area with hundreds of homes. After three nasty years, the La Nina weather phenomenon is gone, the National Oceanic and Atmospheric Administration said Thursday, March 9, 2023. Credit: AP Photo/Matthew Brown, File

When there's a La Nina, there are more storms in the Atlantic during hurricane season because it removes conditions that suppress storm formation. Neutral or El Nino conditions make it harder for storms to get going, but not impossible, scientists said.

Over the last three years, the U.S. has been hit by 14 hurricanes and tropical storms that caused a billion dollars or more in damage, totalling



\$252 billion in costs, according to NOAA economist and meteorologist Adam Smith said. La Nina and people building in harm's way were factors, he said.

Climate change is a major factor in worsening extreme weather, alongside La Nina, scientists said and numerous studies and reports show. Human-caused warming is like an escalator going up: It makes temperatures increase and extremes worse, while La Nina and El Nino are like jumping up and down on the escalator, according to Northern Illinois University atmospheric sciences professor Victor Gensini.

La Nina has also slightly dampened global average temperatures, keeping warming from breaking annual temperature records, while El Nino slightly turbocharges those temperatures often setting records, scientists said.





Cars carefully navigate around downed trees and power lines on Chestnut Boulevard in Selma, Ala., Friday, Jan. 13, 2023, after a tornado passed through the area the day before. After three nasty years, the La Nina weather phenomenon is gone, the National Oceanic and Atmospheric Administration said Thursday, March 9. Credit: AP Photo/Stew Milne, File

La Nina tends to make Western Africa wet, but Eastern Africa, around Somalia, dry. The opposite happens in El Nino with drought-struck Somalia likely to get steady "short rains," Ehsan said. La Nina has wetter conditions for Indonesia, parts of Australia and the Amazon, but those areas are drier in El Nino, according to NOAA.

El Nino means more heat waves for India and Pakistan and other parts of South Asia and weaker monsoons there, Ehsan said.

This particular La Nina, which started in September 2020 but is considered three years old because it affected three different winters, was unusual and one of the longest on record. It took a brief break in 2021 but came roaring back with record intensity.

"I'm sick of this La Nina," Ehsan said. L'Heureux agreed, saying she's ready to talk about something else.





Debris from local businesses covers the street in Selma, Ala., Friday, Jan. 13, 2023, after a tornado passed through the area. After three nasty years, the La Nina weather phenomenon is gone, the National Oceanic and Atmospheric Administration said Thursday, March 9. Credit: AP Photo/Stew Milne, File

The few other times that there's been a triple-dip La Nina have come after strong El Ninos and there's clear physics on why that happens. But that's not what happened with this La Nina, L'Heureux said. This one didn't have a strong El Nino before it.

Even though this La Nina has confounded scientists in the past, they say the signs of it leaving are clear: Water in the key part of the central Pacific warmed to a bit more than the threshold for a La Nina in February, the atmosphere showed some changes and along the eastern



Pacific near Peru, there's already El Nino-like warming brewing on the coast, L'Heureux said.

Think of a La Nina or El Nino as something that pushes the weather system from the Pacific with ripple effects worldwide, L'Heureux said. When there are neutral conditions like now, there's less push from the Pacific. That means other climatic factors, including the long-term warming trend, have more influence in day-to-day weather, she said.

Without an El Nino or La Nina, forecasters have a harder time predicting seasonal weather trends for summer or fall because the Pacific Ocean has such a big footprint in weeks-long forecasts.



An empty vehicle is surrounded by floodwaters on a road in Oakland, Calif., Jan. 4, 2023. After three nasty years, the La Nina weather phenomenon is gone, the



National Oceanic and Atmospheric Administration said Thursday, March 9. Credit: AP Photo/Godofredo A. Vásquez, File

El Nino forecasts made in the spring are generally less reliable than ones made other times of year, so scientists are less sure about what will happen next, L'Heureux said. But NOAA's forecast said there's a 60% chance that El Nino will take charge come fall.

There's also a 5% chance that La Nina will return for an unprecedented fourth dip. L'Heureux said she really doesn't want that but the scientist in her would find that interesting.

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