

# Africa is the ‘fire continent’ but blazes differ from Amazon

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This Aug. 26, 2019 satellite image provided by NASA shows the African continent. While the world has turned its gaze to fires blazing in Brazil’s Amazon rainforest, satellite images show a far greater number of fires on the African continent. But experts say the situation in Africa is different and not yet a growing problem. NASA has called Africa the “fire continent” where on an average August day at least 70 percent of the 10,000 fires burning worldwide are here. Yet the agency says the number of fires is consistent from year to year.

Picture Credit:  
(NASA via AP)

NASA has called Africa the “fire continent” that’s home to at least 70% of the 10,000 fires burning worldwide on an average August day, though the agency says the number of fires is consistent from year to year.

While French President Emmanuel Macron has said he is considering launching an international campaign to help sub-Saharan African countries fight fires, experts say the situation there is different and not yet a growing problem — though it could become a threat in future.

Angola had almost three times more fires than Brazil over a period last week, according to NASA satellite imagery, which indicated around 6,000 fires in Angola, more than 3,000 in Congo and just over 2,000 in Brazil.

Though Angola and Congo dominate in numbers of fires, they often occur in sparsely wooded savannas and on fields cultivated by small farmers, making them less of a concern for deforestation than those in the Amazon, said Sally Archibald, a professor at Wits University in Johannesburg.

“There are fire management questions in these (African) ecosystems, but fire is part of their ecology,” said Archibald, who studies fire management and savanna dynamics. “In South America, the equivalent non-forest woodlands have been largely converted to soybean agriculture already, but in Africa they are largely untransformed.”

Savanna fires release carbon dioxide, but within a year the grass regrows, sucking much of the carbon out of the atmosphere again. The fires may push toward the forests, but are mostly snuffed out at that border, Archibald said, unless trees are cut down making tropical forests more vulnerable. When a tropical forest is burned, the trees die and the carbon dioxide goes up and doesn’t return to the system quickly.

“The main message is: yes we have a lot of fire, but it’s not bad and can be very good for the ecology,” she said. “We don’t know how many deforestation fires we have but the best evidence is that our forests are not decreasing, they are in fact increasing.”

Most deforestation occurred in West Africa in the 19th century, Archibald said, adding that Cameroon and Gabon show increased forestation.

However, ecosystems such as the Miombo Woodlands, which covers 10% of the continent over nine countries, do need to be managed. These woodlands push up against forests and because of an increase in population, more people are planting crops along the edges.

The Miombo Network, an advisory and sustainability group that Archibald is a member of, is working with the World Bank and policymakers to make sure there is proper fire management in these areas, she said.

NASA research scientist Niels Andela also said that savanna fires have shaped Africa's landscape for thousands of years.

"Fires are therefore often a critical component of these ecosystems and are not perceived as harmful by local communities," he said. "Indeed, fires are often used for agricultural purposes, for example to keep the landscape open to support livestock, as well as sometimes as part of shifting cultivation."

Andela said deforestation isn't occurring on the same scale as in South America.

"In part that may be simply due to limitations of existing infrastructure and lack of access to global markets, processes that drive large scale agricultural expansion elsewhere," he said. "It is therefore certainly a possibility that this may change in future."

Tosi Mpanu Mpanu, former chief negotiator for the Africa Zone at the 2015 United Nations climate change conference, said agricultural practices known as "slash and burn" need to be better managed, citing the over 3,000 fires in Congo.

"It is a great threat to our forests," he said of the technique used by farmers in Congo and elsewhere in sub-Saharan Africa. "You need a global ambitious program or you train people to use other practices for people to go into intensive agriculture. You have to organize these small farmers by giving them fertilizer, seeds."

The European Space Agency estimates 25-35% of climate-changing greenhouse gas emissions come from so-called biomass burning, which includes fires that are intentionally set to clear land for agriculture.

The majority of those fires occur in tropical regions of Africa.

Using satellite data from the agency's Copernicus program, researchers said in a December study that the total area burned in 2016 was 4.9 million square kilometers (1.89 million sq. miles).

Most of the fires are 100 hectares (247.1 acres) or smaller in size.

Other areas with extensive biomass burning are Australia, South America and southeast Asia.

Globally, the amount of area burned declined by about 25% over the past two decades, largely because of savannas and grasslands being converted to agriculture, said [James Randerson](#), an earth systems scientist at the University at California, Irvine.

Randerson said the tropical forests of Africa have yet to see widespread deforestation driven by industrial-scale agriculture that is transforming parts of the Amazon. But, he said, global economic forces could potentially change this as countries in east Asia, particularly China, seek to expand trade relations with African nations.

“That could put more pressure on the African forests,” Randerson said.

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AP writer Matthew Brown in Billings, Montana and Saleh Mwanamilongo in Kinshasa, Congo contributed to this report.

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