Amazon fire news report

I'm not robot!











Aerial view of the Putumayo River in Colombia's Amazon rainforest, in the Putumayo region on November 6 2021. January of this year was the hottest month in the Colombian Amazon in a decade, leading to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest fires in the southeastern region and very likely impacting air quality in the capital Bogota, according to an increase in forest firest fire Ministry report seen by AFP Friday. It said the month of January recorded the "highest hot spot values in the Colombian Amazon. The phenomenon occurs, the ministry said, when the country goes through a season of low rainfall, and is due to human activity, of which "the most important is associated with deforestation fronts." At least 80 percent of the "hot spots" were forest fires, a ministry spokesman told AFP. At the end of January, the ministry identified more than 3,300 in the Guaviare region alone. According to testimony collected by AFP in October in the region, peasants and landowners take advantage of the dry season, from January to April, to burn or cut down trees and plant coca plants in their place, or to let cattle graze there. The Serrania del Chiribiquete National Nature Reserve, a vast territory of jungle inhabited by the last nomadic indigenous people of Colombia. The Foundation for Conservation and Sustainable Development (FCDS), which keeps its own count and regularly flies over the areas concerned, recorded at least 938 forest fires, the highest monthly January figure since 2012. "Thousands of hectares of Amazon jungle, cut in recent months, are on fire today. These massive fires are now being felt as far away as Bogota," FCDS director Rodrigo Botero warned on Twitter. "There are public health decisions to be made quickly. What are the air indicators saying in Bogota?" Bogota mayor Claudia Lopez decried "the inability" of the government "to control the territory and guarantee security." She described the fires as "arson attacks ... which, due to the direction of the wind, end up arriving and deterioration in air quality to a level "harmful to the health" of children and the elderly. According to data from the Colombian government, deforestation has exploded in recent years in the country's Amazonian regions, notably as a result of the historic peace deal signed in 2016 with the Marxist guerrillas of the FARC, which then abandoned large swaths of territory which they previously controlled. © 2022 AFP Citation: Record heat, forest fires in Colombia's Amazon in January (2022, February 5) retrieved 30 July 2022 from 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. Researchers recorded thousands of hours of sounds in areas that had been logged, burned once and burned multiple times along the "arc of deforestation" in the Brazilian Amazon. In the forests or forests burned only once. This type of acoustic monitoring can be used as a costeffective way to check the pulse of the forest. The authors were surprised to find that insects, not birds, were the most obvious signal of forest doesn't correlate with the level of biodiversity. There's a major difference in the biodiversity of a forest after one burn versus multiple burns, one author said, so protecting forests from repeated fires are silencing the symphony, according to a new study published in the Proceedings of the National Academy of Sciences. Researchers from the University of Maryland recorded thousands of hours of sounds in the Amazon Rainforest. They looked at three types of forests: those that had been logged, burned once, and burned multiple times. All were located along the "arc of deforestation," an area along the southeastern edge of the Brazilian Amazon where development pressures such as cattle ranching are encroaching into the last remaining vestiges of intact forest, where there is huge diversity," study co-author Anshuman Swain, a University of Maryland ecologist, told Insider. The recordings highlighted a stark difference in animal sounds between forests that had experienced multiple fires versus only one fire. In the forests or forests burned only once. A white whiskered spider monkey with her baby. In the forests with repeated fires, animal communication networks were quieter. Image courtesy of Danielle Rappaport. (Left) The ARBIMON recorder used by the researchers to records the forest sounds. (Right) A tree burnt in a forest fire in the Amazon. Images courtesy of Danielle Rappaport. strikingly different ... you could feel that disequilibrium ... it's just extremely eerie and haunting how these forests are becoming empty," lead author Danielle Rappaport, chief research and innovation officer at the Amazon Investor Coalition, told Mongabay. "They're emptying out." The researchers analyzed how diverse the sounds were throughout the day and how they interacted, allowing them to preserve the complexity of the soundscape without identifying individual species. Forests with repeated burning sounded homogenous, with fewer instruments in the orchestra and movements in the symphony. This method of acoustic monitoring, Swain said, is "a low-cost indicator of how badly we have damaged the environment." Before heading in to record, the researchers studied the forests from above. They looked at past satellite images to determine the frequency and severity of fires and logging in past years, and used lidar, a remote-sensing technology that employs lasers, to measure how much carbon was stored in the vegetation. A part of the Amazon forest that was degraded by fires. Image courtesy of Danielle Rappaport. Rappaport said they were surprised to find the amount of vegetation, or biomass, doesn't correlate with the level of biodiversity. In short, more trees don't necessarily mean a more diverse animal community. The study does "groundbreaking work to show that the plant biomass, on its own, is not a one-to-one proxy for biodiversity change and multiply-burned forests respond differently in terms of their biodiversity loss," Woody Turner, a program scientist at NASA's biological diversity Earth science division, who was not involved in this research, told Mongabay. The other big surprise was that insects, not birds, were the most obvious signal of forest degradation from the acoustic record. "That that really speaks to the importance of actually listening to them." Typically, acoustic monitoring is used to record bird populations, especially during their peak singing hours, the dusk and dawn choruses. But the research team found that it was the periods of time least sampled by biologists, the windows in the middle of the day and in the night, that served as most important barometers of change. Orange-spotted tigerwing butterflies in Peru. Researchers were surprised to find that insects, not birds, were the most obvious signal of forest degradation. Image by Rhett A. Butler/Mongabay. The study, Turner said, demonstrates how useful acoustic remote sensing is for detecting and monitoring changes in insect diversity, "which is critical as insects are the most diverse taxa in our most biodiverse terrestrial ecosystems: moist tropical forests." Fires aren't a naturally occurring phenomenon in the Amazon; they're often set by farmers and ranchers to clear the land for agriculture. However, in recent years, deforestation and climate change have degraded and dried intact forests, and fires are escaping into standing rainforest. Still, Rappaport said, these forests have value, and we need to move beyond the binary of thinking of forests as either intact or degraded. "There's a major difference in terms of the ecosystem that Amazon forest can support said, these forests from repeated fires will have massive co-benefits, both from a carbon perspective and biodiversity perspective." Banner image: A blue-grey tanager (Thraupis episcopus) in Peru. Image by Rhett A. Butler/Mongabay. Citation: Rappaport, D. I., Swain, A., Fagan, W. F., Dubayah, R., & Morton, D. C. (2022). Animal soundscapes reveal key markers of Amazon forest degradation from fire and logging. Proceedings of the National Academy of Sciences, 119(18), e2102878119. doi: 10.1073/pnas.2102878119 Liz Kimbrough FEEDBACK: Use this form to send a message to the author of this post. If you want to post a public comment, you can do that at the bottom of the page. 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