Magazine Design Deck

Emma Campos (Ferren)

Goals and Objectives

O1. Creative Masthead

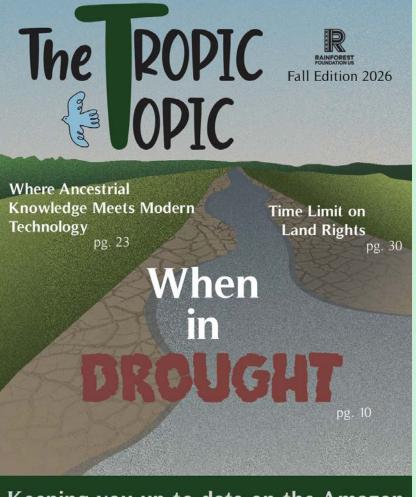
O3. Create my own Illustrations

02. Use Text Flow

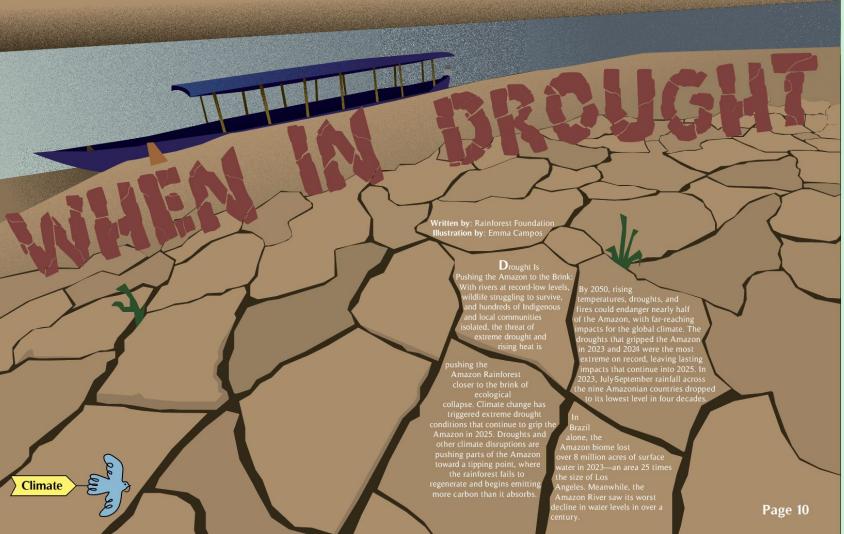
04. Use Grids and Columns Effectively



Keeping You up to Date on the Amazon



Keeping you up to date on the Amazon



Why is the Amazon **Drying Up?**

Research increasingly shows that human-caused climate change is the main driver of drought in the Amazon, making extreme weather events up to 30 times more likely. Rising global temperatures have intensified drying trends. making droughts longer, more frequent, and more severe. The Amazon now receives less rainfall during the dry season (June to November) than in the past. Meanwhile, hotter temperatures accelerate evaporation from soils and vegetation, reducing moisture across the basin. Although the natural climate phenomenon El Niño contributed to recent drought conditions, its impact is minor compared to the growing effects of human-driven global warming. Over the past 40 years, the Amazon has warmed at an average rate of 0.27 °C per decade, with some central and southeastern regions heating up as

Climate

much as

0.6 °C per decade. In many of these areas. the average dry-season temperature is now more than 2 °C higher than it was 40 years ago. If current trends continue. the temperature in parts of the rainforest could rise by more than 4 °C by 2050. Drought and deforestation interact in a vicious cycle. As drought hampers river transport, pressure has grown to pave highways like the highly contested BR319 in Brazil's Amazon. But paying makes it easier to access these forested areas and accelerates deforestation, which in turn reduces rainfall by disrupting the forest's natural water cycles (evapotranspiration). This leads to drier conditions. increased fire risk, and further forest loss. In 2023, monitoring detected more than 5.000 km of illegal side roads branching off BR319, intensifying the degradation of the surrounding rainforest.

Last year it was extremely dry. There was no water. and what little remained was dirty. The fish in the river



Deforestation rate from 1950 to 2020.

From a scientific perspective, the evidence speaks for itself. The southern Amazon's dry season now lasts up to five weeks longer and brings 20% less rainfall than it did four decades ago. If current trends persist, nearly half of the Amazon rainforest could be at risk from drought and fire by 2050. Yet within Indigenous territories. satellite data consistently shows lower rates of deforestation and ecosystem degradation. even more so when their lands are officially titled and consistently monitored. These areas demonstrate greater resilience to climate stress.

Cameron Ellis

It wasn't like this before. We've been suffering for the last two years, and they say this year will be even worse. Forest patroller and first woman mitigating droughts. leader of the San Francisco de Yahuma community, Peru Rivers run dry: In October 2023, legally secured and the Rio Negro, one of the Amazon's largest tributaries, hit its lowest level since records began over a century ago, isolating thousands of people. Locals reported illnesses linked to drinking stagnant water. Entire riverside communities, including Indigenous people that rely on fishing and river transport, were left without access to food, medical care, or clean water. Rivers as lifelines: In the Brazilian Amazon, over 60% of towns and villages are closer to major water bodies than to roads. underscoring their reliance on rivers as primary access routes. When waterways run dry: Boats can't travel, cutting off access to food. medicine, and markets. Fishing livelihoods collapse. Stagnant waters contaminate drinking supplies. Those in need of medical attention. including women in labor and newborns, are left stranded without access to care.

Rainforest Foundation US (RFUS) is supporting actions that make a tangible difference in preventing and Healthy forests regulate water and climate, and Indigenous lands, when

peoples with the legal Wind current takes Water evaporates from water vapors across the the Atlantic Ocean continent

managed, maintain denser vegetation and more consistent rainfall. buffering entire regions against drought and fires For over 35 years, RFUS has partnered with Indigenous peoples in the Amazon to secure land rights, strengthen local governance, and provide tools and training to monitor and manage

their territories.

The flying rivers distriubute

this moisture as rain across

regions of South America

standing and autonomy to manage their territories and headwaters, defend forests against external pressures, and build long-term resilience to climate impacts. Expanding monitoring programs such as Rainforest Alert, a community led syste that uses smartphones and drones to detect

Moisture is exchanged with

the Amazon Rainforest via

evapotranspiration

Today, those efforts are

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Advancing land rights

supporting Indigenous

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in supporting

communities to

threat of drought.

more important than ever

and respond to deforestation, fires, and illegal invasions threatening territories and water security. Providing direct support to Indigenous organizations to integrate traditional knowledge with scientific data, strengthen emergency planning, and enhance local governance for drought response and adaptation. The next five years will decide the future of the world's tropical rainforests and the stability of our global climate. Rainforests across Latin America are home to more terrestrial biodiversity than anywhere else on Earth and are among our planet's most powerful carbon sinks. Yet they are nearing a dangerous threshold, one that could see them transform into degraded savannahs, turning forests into carbon sources. Over the next five years, RFUS and our Indigenous partners will advance Indigenous peoples' land rights across 14 million acres, because when communities have legal control over their ancestral lands. they can protect forests

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for generations.

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> Water evaporates from the Atlantic Ocean

Today, those efforts are more important than ever in supporting communities to withstand the growing threat of drought. Advancing land rights across millions of acres, supporting Indigenous peoples with the legal Wind current takes

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Extreme Drought in the Amazon has Global Consequences.

Moisture from trees in the Amazon form "flying rivers" that carry 200,000 m3 of water vapor per second across South America, feeding rainfall for crops as far away as Argentina.

Losing the Amazon rainforest would cut rainfall by 40% in these regions, devastating agriculture across the continent and accelerating climate instability. Scientists warn that if global temperatures climb

2024, overheated

river dolphins and

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Tefé caused the death

beyond 2 °C above preindustrial levels, vast areas of the rainforest could convert into degraded savannah. The rivers of the Amazon are like the forest's veins, and right now, they're drying up faster than

The rainforest suffered record droughts in 2023 and 2024, when many of were below the lowest point on record. That was season extends to six in two decades, four times more than would undisrupted climate. Every year, the dry

Climate

the southern Amazon four months and even season. The

five weeks longer and there is 20% less rain. If decades. Once the dry the fourth severe drought months, there is no way to avoid self-degradation. have been expected in an to a point of no return. In Marina Hirota, calculated some areas, it may have already been passed. In southern Pará and northern Mato Grosso. The annual dry season in the minimum rainfall is already less than 40mm per month during the dry then there would be Amazon also has fewer lightning strikes because the clouds are lower than

Almost 50% of the water vapour that comes into out of the Amazon on what we call "flying rivers". I was the first to calculate the huge volume of these flows: 200,000 cubic metres of water vapour per second. My former PhD student. Prof devastation of the most Indigenous territories biodiverse biome in the world would also affect 50% of the rainfall in the hundreds of thousands Paraná River basin in the of species and raise the far south of Brazil, which is a major food-growing area. These flying rivers also provide water for crops in the Cerrado, Mato Grosso,

Americas.

Goiás, Paraná, Santa Catarina, Rio Grande do Sul, Paraguay, Uruguay, degradation of the Amazon forest will lead area. So if we lose the even pandemics. reduce the rainfall there by more than 40%. Then agricultural production at today's levels. And that would also contribute to south of the Amazon into semi-arid vegetation. The

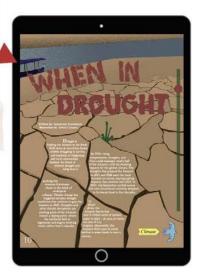
The rivers of the Amazon are like the forest's veins, and right now, they're drying up faster than ever. But what we're seeing is that inside Indigenous territories, the damage is far less severe, especially where lands are officially recognized and titled. These areas are better protected, with much lower rates of deforestation and degradation. Securing and expanding Indigenous land rights isn't just the right thing to do, it's also one of the smartest, most effective ways to keep forests standing and rainfall patterns stable across the whole region.

Christine Halvorson

rainforest's resilience. They collectively hold third of rainforests in the Amazon, and securing their land rights is essential to maintaining the region's natural water cycle. Forests inside Indigenous territories deforestation rates and surrounding areas, thereby preserving dense of water vapor back into the atmosphere through

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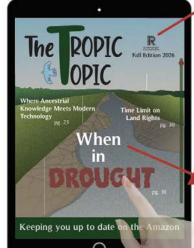


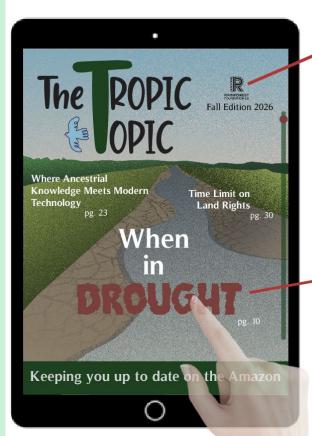




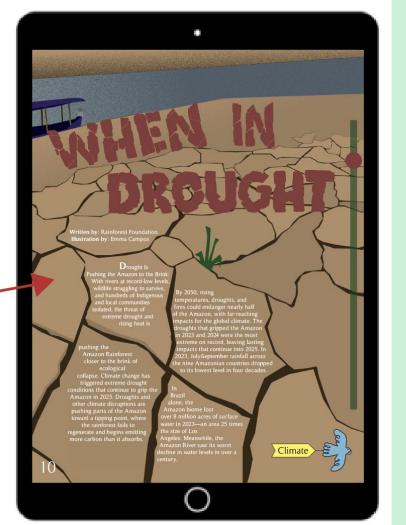












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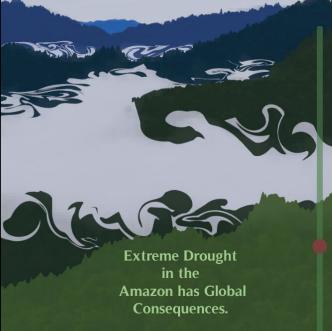
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Tap to Reveal Tap to Reveal

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Climate

Scientists identify global climate change, not local deforestation, as the main driver of extreme drought in the Amazon basin, Indigenous peoples still play a crucial role in the rainforest's resilience. They collectively hold and protect nearly one third of rainforests in the Amazon, and securing their land rights is

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The rivers of the Amazon are like the forest's veins, and right now, they're drying up faster than ever. The rainforest suffered record droughts in 2023 and 2024, when many of the world's biggest rivers were below the lowest point on record. That was the fourth severe drought in two decades, four times more than would have been expected in an undisrupted climate. Every year, the dry season is becoming longer and more arid. The annual dry season in the southern Amazon used to last three to four months and even then there would be some rain. But today, it is four to five weeks longer and there is 20% less rain. If this trend continues, we will reach a point of no return in two or three decades. Once the dry season extends to six months, there is no way to avoid self-degradation. We are perilously close to a point of no return. In some areas, it may have already been passed. In southern Pará and northern Mato Grosso, the minimum rainfall is already less than 40mm per month during the dry season.

Almost 50% of the water vapour that comes into the region from the Atlantic through trade winds is exported back out of the Amazon on what we call "flying rivers". I was the first to calculate the huge volume of these flows: 200,000 cubic metres of water vapour per second. My former PhD student, Prof Marina Hirota, calculated that tropical forests and Indigenous territories account for more than 50% of the rainfall in the Paranā River basin in the far south of Brazil, which is a major food-growing area. These flying rivers also provide water for crops in the Certado, Mato Grosso, Mato Grosso do Sul, Goiás, Urguay, and all that northern Argentina agricultural area. So if we lose the Amazon, we are going to reduce the rainfall there by more than 40%. Then you can forget agricultural production at today's level. In the future, the degradation of the Amazon forest will lead to more epidemics and even

Climate