

## UN climate report comprehensive, but regional gaps persist

August 9 2021, by Patrick Galey



Kenyan farmer Amina Guyo, shown cooking a cowpea stew, depends on agropastoralism and the sale of khat to support her household of six.

The Intergovernmental Panel on Climate Change (IPCC) report that generated shock waves on Monday is the most detailed assessment of



climate science ever undertaken, advancing our understanding of how—and how fast—greenhouse gas emissions are changing the planet.

But experts caution that the comprehensive global review contains blind spots—overlooking regions that are highly vulnerable to the impacts of <u>climate</u> change but where data on those impacts is severely lacking.

In its 40-page Summary for Policymakers, the IPCC presents three maps of the world, with regions divided up in to hexagons.

Each of the maps shows observed changes in <u>extreme heat</u>, rainfall and drought.

While there is a strong observed increase in extreme hot weather nearly everywhere, when it comes to rainfall and drought, South America, Africa and the Pacific Island states in particular are nearly blank slates.

Of the seven sub-regions of South America, only one—the southeast—has reliable rainfall data, and just one other—the northeast—has sufficient data on drought.

"It's important to mention that we can only use and assess the available literature," Paola Arias, associate professor at Colombia's University of Antioquia and an IPCC author, told AFP.

"South America has a very important role in <u>regional climate</u> but also an important source of moisture to Central America," said Arias, who helped design the three maps.

"We need more observational data. We don't have enough of it to study extreme events on a daily or hourly scale."





South America's climate affects other regions but the IPCC report highlighted a paucity of reliable data on extreme rainfall and drought.

## Lack of research

The IPCC provided a two-page fact sheet on observed and projected climate trends in Africa, but the paucity of data is inescapable in the maps.

Of the nine African sub-regions, the IPCC noted an observed increase in extreme rainfall for just two—western and eastern southern Africa.

For the other seven it said "limited data and/or literature" were available.



Only half of the sub-regions provided sufficient data to determine an increase in rates of drought.

Mohamed Adow, director of the Nairobi-based climate and energy think tank Power Shift Africa, likened the lack of data to the old philosophical adage: If a tree falls in a forest and no one is around to hear it, does it make a sound?

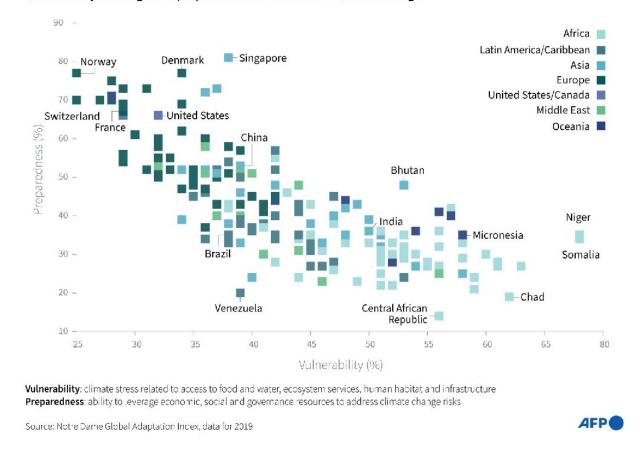
"People in Africa are certainly aware of the overwhelming heat, rising seas and extreme weather on the continent, but if they are not being recorded by scientists it will be much harder for African voices to be heard in the climate debate to tackle it," he told AFP.

The IPCC report makes it crystal clear that "human activities" were responsible for the 1.1C of warming above preindustrial levels observed so far.



## Inequality in the face of climate threat

Vulnerability and degree of preparedness of countries to climate change



Vulnerability and preparedness of the world's countries to climate change.

But Adow underscored a basic injustice: most climate-vulnerable nations are virtually blameless for the emissions that are driving ever more extreme weather.

"Africa is most affected and yet least responsible for climate change," he said.

"Sadly, it's also producing the least scientific research, and this lack of research is hurting the region's ability to adapt.



"We need to urgently address this and ensure researchers and funders come together and invest in filling these glaring gaps in climate research."

## **Male-dominated**

Although more than half of the IPCC's report authors were first timers, their composition is still imbalanced, both geographically and in terms of gender.

Of the 116 authors credited with drafting or contributing to the report's summary, just 13 come from non-G20 nations, for example.

And the overall writing team is 72 percent male.





Many developing countries are virtually blameless for the greenhouse gas emissions driving climate extremes.

Maisa Rojas Corradi, coordinating lead author of the IPCC report's opening chapter and director of the Centre for Climate and Resilience Research in Chile, said efforts had been made to make this team more diverse.

"I know that this was a worry that was actively worked on when the author team was selected, they really tried to have more women and more regional representation," she told AFP.

Corradi said there were still too many obstacles stopping research conducted in regions where <u>climate change</u> is already hitting hard.

These include studies not written in English or not published in mainstream scientific journals, she said.

"If you live in a country where the <u>scientific community</u> is small or some aspects aren't being investigated comprehensively, then the IPCC can't really say anything."

And better representation within the IPCC author team is not just a case of equality: bringing in more data and regional perspectives will foster better scientific outcomes, Corradi said.

"It's critical to get a balanced report," she said. "You cannot monitor what you don't observe."

© 2021 AFP



Citation: UN climate report comprehensive, but regional gaps persist (2021, August 9) retrieved 23 June 2024 from

https://phys.org/news/2021-08-climate-comprehensive-regional-gaps-persist.html

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.