

Climate change, rampant urbanization fuel Brazil storm disasters

February 23 2023, by Ramon SAHMKOW



Landslides triggerd by deadly rains in the hard-hit hillside neighborhood of Sahy, in the city of Sao Sebastiao, in southeastern Brazil.

Climate change and unchecked construction in flood- and landslideprone areas are making disasters like the violent storm that killed at least



48 people in southeastern Brazil ever more frequent, according to a leading expert.

Francis Lacerda, a researcher at Brazil's IPA Climate Change Laboratory, spoke with AFP about the forces driving disasters like the one that hit the coast of Sao Paulo state last weekend, and what can be done to stop them.

What is causing so many tragedies like this in Brazil?

"It's a consequence of global warning, which has generated more extreme weather events not just in Brazil, but across South America and the entire planet.

"There has actually been a decrease in the total amount of rain in Brazil in the southeast, central-west, north and northeast in the past 30 or 40 years, even as these extreme episodes have increased.

"The large amount of heat in greenhouse gases is being absorbed by our oceans, which is changing ocean currents. That's causing changes in the way heat is distributed at Earth's poles and the equator, and the atmosphere responds with these <u>extreme weather events</u>.

"So total precipitation has decreased, but the distribution has become more intense, with an entire year's worth of rain falling in a few hours in some cases."





Global warming has generated more extreme weather events, and experts say such climate change fueled the latest floodin and landslides in southeastern Brazil that left dozens dead.

Is entire country at risk?

"Yes, although mountainous areas are at higher risk.

"On the Sao Paulo coast, for example, the phenomenon was intensified by the <u>mountain range</u> and the arrival of a cold front with high-speed coastal winds. But rain like that can also occur in coastal areas without mountains."

Could deaths have been avoided?



"It was a tragedy foretold. A day before the storm, meteorological models started indicating a high probability of a phenomenon like this. It would have been possible to get enough information to emergency officials to evacuate these areas and save lives.

"Governments at the city, state and federal levels are unprepared for <u>climate change</u>. We need adaptation and mitigation plans."

Millions face such danger. How does Brazil address it?

"Real-estate speculation has basically pushed <u>poor people</u> on the urban periphery into these high-risk areas. They have no other option.



Torrential rains led to flooding and landslides that killed more than 230 people in February 2022 in and around Brazil's historic town of Petropolis, some 60



kilometers (37 miles) north of Rio de Janeiro.

"It's not enough to just say, 'Get those people out of there.' We need to fundamentally reexamine our cities with a view to reformulating urban public policies.

"There are a lot of things that can be done, including fixing the lack of decent housing."

© 2023 AFP

Citation: Climate change, rampant urbanization fuel Brazil storm disasters (2023, February 23) retrieved 25 June 2024 from <u>https://phys.org/news/2023-02-climate-rampant-urbanization-fuel-brazil.html</u>

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.