



Wildfires already affect millions of people, destroying livelihoods and killing more than 300,000 people a year but - with climate change - fires will pose an even greater threat to life, including wildlife, and property, states this year's Global Assessment Report (GAR19) on Disaster Risk Reduction.

FIRES AND WILDFIRES: FEARS GROW OVER MOUNTING LOSSES FROM WILDFIRES



Climate change brings longer droughts and higher temperatures, which in turn means that wildfires will become more frequent and widespread with longer seasons. In dry climate zones, fire incidents can quickly transform into mega fires as evidenced with the wildfires that occurred in California in 2017, and Greece and Portugal in 2018. According to Swiss insurer, Swiss Re, wildfires destroyed USD 14 billion worth of insured property in 2017, the highest ever amount in any single year.

"Climate change dials up the volume on the risk of wildfires," says Mami Mizutori, Special Representative of the Secretary-General (SRSG) for Disaster Risk Reduction. "It is both a major driver and amplifier of disaster losses. If we do not include climate change scenarios in risk reduction planning, then we are building in an inherent redundancy in all we do."

DEVASTATING EFFECTS

Wildfires have devastating effects on biodiversity, ecosystems and health, producing huge quantities of carbon dioxide (CO2) and water vapour (H2O) which may have a significant greenhouse effect. As fires become larger, reaching wildland urban interfaces (WUI), their consequences may expand to produce transboundary air pollution and chemical releases.

Burning forests, plastics, and hazardous chemicals, releases toxins into waterways, soils, and more. Smoke from fires includes a chemical mixture of substances, such as carbon monoxide and carbon dioxide, or ammonia, dioxins and other highly toxic compounds that can be highly harmful to health.

NEWER, BIGGER DATA

New satellites and data collection are offering an opportunity to provide better information and analysis. Europe is developing the European Forest Fire Information System (EFFIS).

The Global Wildfire Information System (GWIS) records 350 to 400 million hectares of land burnt every year. It does not monitor small fires, however, with hectares burnt likely to be even higher.

CALIFORNIA WILDFIRES

40 killed

5,700 homes destroyed



BRITISH COLUMBIA, CANADA

Fire burnt more than 12,000 km2

Almost 40,000 people evacuated

More than **300 buildings** were completely destroyed

The largest fire ever **recorded**.



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