

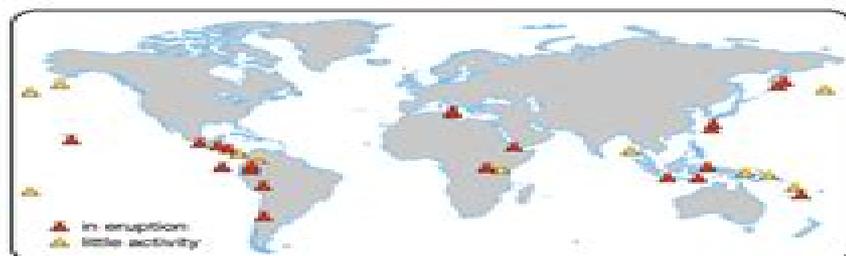


## A Tale of 4 Volcanoes: 2021-2022

Although there is continuous volcanic activity around the world, much goes unreported due to its relatively low human impact and therefore lack of media interest. Volcanoes are characteristically concentrated around the Pacific Ring of Fire and current global activity is shown in Figure 1. Worldwide, 40-50 volcanoes are classified as experiencing continuous eruptions, i.e. at least three months of activity with some intermittence between events. On average, around 20 volcanoes can be erupting on any one day.

The four volcanoes discussed in this article have all erupted in the last year but are very different in terms of their causes, impacts and response. One is a Decade Volcano - Mount Nyiragongo - and another, La Palma, Canary Islands, is within an island group containing a Decade Volcano. In total 16 Decade Volcanoes have been designated for detailed study due to their previous eruptive history and proximity to a large population, the aim being to understand the physical processes and so reduce human impact through mitigation measures. A contrasting event was the notable fissure eruption that occurred in Iceland that may mark the beginning of the formation of a shield volcano, not seen before. The fourth volcano considered in this article is Hunga-Tonga Hunga-Ha'apai (HT-HH) in Tonga. It erupted in January 2022 and was the largest volcanic explosion since Mt. Pinatubo in 1991 and aspects of that event have given new insights into volcanology. All these eruptions present their own threats which will be examined below.

Figure 1 Volcanic activity worldwide in January 2022



### Mount Nyiragongo, May 2021

Mount Nyiragongo is one of many volcanoes found along the African Rift Valley that runs 7,000 km north-south in Eastern Africa, a continental divergent plate boundary. Records began in 1882, since when there have been 34 recorded eruptions, some lasting for several years.

Crucial to its activity is the existence of a lava lake within a large, steep-sided cinder cone that fluctuates in size, depth, and temperature over time.

Increased activity within the lava lake began in September 2020. On 22<sup>nd</sup> May 2021, a major vent on the volcano's flank erupted and effusive lava began to flow at a rate of 1km per hour towards Goma, 20km away, a city of 2 million people (Figure 2). Three days later there was a Moment Magnitude (M) 5.3 earthquake and aftershocks, with some felt in Kigali, the capital of Rwanda, 90 km to the east. This raised fears of a new fissure opening on the flank. The lava flow stopped at the northern outskirts of Goma but cut off a major road connecting Goma to Beni in the north. Seismic activity stopped on 7<sup>th</sup> June 2021. Lava was detected beneath the city and under Lake Kivu, so there were fears of a limnic reaction - the release of dissolved gases such as methane and carbon dioxide that had accumulated at the bottom of Lake Kivu.

Figure 2 Lava flows towards Goma



### Impact

The eruption caused 32 deaths, mostly by asphyxiation due to toxic gases. There were some indirect deaths due to traffic accidents during the mass evacuation and an attempted prison outbreak. 540 children went missing or became separated from their families in the chaos. 1,700 homes and structures were destroyed and 17 villages around the volcano were wrecked; in total over 268,000 people were affected. Local markets partially or totally closed, affecting the informal sector in particular and increasing the impact on the poorest residents.

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