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ICELAND HIT BY 'SEISMIC SWARM' OF SMALL EARTHQUAKES IN VOLCANO WARNING

Relevant for: Geography | Topic: Important Geophysical phenomena - Earthquakes, Tsunamis & Volcanoes

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October 28, 2023 08:44 am | Updated 08:44 am IST

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Lava spurts and flows after the eruption of a volcano in the Reykjanes Peninsula, Iceland, July 12, 2023, as seen in this handout picture taken from a Coast Guard helicopter. | Photo Credit: Civil Protection of Iceland/Reuters

A seismic swarm has hit the Reykjanes peninsula in southwest Iceland with more than 5,500 small earthquakes in the last three days, raising the prospect of a volcanic eruption, the country's meteorological office (IMO) said on Friday.

Located between the Eurasian and the North American tectonic plates, among the largest on the planet, Iceland is a seismic and volcanic hot spot as the two plates move in opposite directions.

While quakes are a daily occurrence in Iceland, the latest swarm was more extensive than usual.

"These earthquakes are a warning sign, a part of a longer-term story that we know we're entering a build-up phase to the next (volcanic) eruption," IMO Service and Research division head Matthew Roberts told Reuters.

The quakes originated at a depth of up to 5 km and were caused by a long-term accumulation of magma that has been building pressure and is now slowly drifting towards the surface of the earth, he added.

Earlier this year a volcano erupted in an uninhabited part of the Reykjanes peninsula after intense earthquake activity, the third such event in the region southwest of the capital Reykjavik since 2021.

A fourth eruption could now be developing, the IMO said, although predicting the timing of volcanic outbreaks is difficult.

"From my perspective as a scientist and someone who's been following this activity very closely, I would say that an eruption within the next 12 months is likely," Roberts said.

The strongest of the earthquakes had been measured at a magnitude of 4.5, and around 15 tremors were at 3.0 or stronger, the IMO said.

Earthquakes with a magnitude above 2.5 can often be felt by humans, according to the Michigan Technological University.

Grindavík, a fishing town on the peninsula with around 2,000 inhabitants, is the town closest to the seismic activity.

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