
Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, September 20, 2024, 15:00 local time (GMT-4)

Volcanic activity remains significant this week with **53 volcanic earthquakes** observed.

Between September 13, 2024 at 16:00 (UTC) and September 20, 2024 at 16:00 (UTC), the OVSM has recorded:

- **52** low-energy **volcano-tectonic** type earthquakes. These earthquakes were clearly identified as originating from one of the well-known seismically active zones on Mount Pelée, located between 1.0 and 1.4 km below the summit of the volcano. Superficial volcano-tectonic seismicity is associated with micro-fracturing in the volcanic edifice related to the overall reactivation of the volcano observed since late 2018.
- **1 deep hybrid** earthquake located below the volcano at around 22 km depth. Hybrid seismic signals are enriched in low frequencies and are generally associated with the presence of magmatic fluids in the deep part of the volcanic system of Mount Pelée.

No earthquake was felt by the population.

The week before, the OVSM had recorded **56 earthquakes** of volcanic origin. As of September 20, and during the last 4 weeks, the OVSM recorded a total of 125 volcanic earthquakes, and an average of **31 to 32 volcanic earthquakes** per week.

During phases of volcanic unrest on volcanoes similar to Mount Pelée, it is usual to observe seismic activity that varies over time in intensity and frequency.

For more details on longer-term observations and interpretations of volcanic activity, please refer to the monthly bulletins of the OVSM.

The alert level is currently YELLOW: vigilance.

The Director's office of OVSM-IPGP.

Informations

The data in this report are preliminary and subject to change depending on their subsequent analysis.

The reports of OVSM-IPGP, including detailed monthly bulletins, are available at

<https://www.ipgp.fr/observation/ovs/ovsm/>. You can also find us on our Facebook and Twitter accounts. Locations of volcano-tectonic and tectonic earthquakes determined by the OVSM-IPGP are available in real-time at <https://renass.unistra.fr/fr/zones/les-antilles/>.

To receive the weekly report by email, simply request it at: infos@ovmp.martinique.univ-ag.fr

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