
Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, April 18, 2025, 17:00 local time (GMT-4)

Volcanic activity has increased this week, with **38 volcanic earthquakes** observed.

Between April 11, 2025 at 16:00 (UTC) and April 18, 2025 at 16:00 (UTC), the OVSM has recorded:

- **35** 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.
- **2 deep hybrid** earthquakes of magnitude $M_l=1.5$ and $M_l=1.3$, both located at around 18 km depth to the southwest of Mont Pelée. 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.
- **1 long-period** type earthquake of magnitude $M_l=0.8$ located at around 18 km depth beneath the volcano. Deep long-period events contain only low frequencies and are associated with the presence of magmatic fluids deep within the Mont Pelée volcanic system.

No earthquake was felt by the population.

The week before, the OVSM had recorded **12 earthquakes** of volcanic origin. As of April 18, and during the last 4 weeks, the OVSM recorded a total of 54 volcanic earthquakes, and an average of **13 to 14 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 [Bluesky](#) et [Facebook](#) 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

The information in this document cannot be used without explicit reference to it.