

Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, November 14, 2025, 16:00 local time (GMT-4)

Volcanic activity has decreased this week by **59 volcanic earthquakes** observed.

Between November 7, 2025 at 16:00 (UTC) and November 14, 2025 at 16:00 (UTC), the OVSM has recorded:

- **54 shallow volcano-tectonic** type earthquakes of lower energy. Most of these earthquakes originate from well-known seismically active zones at 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 2019.
- **2 shallow hybrid** type earthquakes, that could not be located but whose signals indicate that they originated in the same area as the shallow volcano-tectonic earthquakes. Shallow hybrid earthquakes have signals enriched in low frequencies and are associated with the circulation of fluids (gas, hydrothermal fluids) in the volcanic edifice.
- **1 deep hybrid** type earthquake and **2 deep long-period** type earthquakes. They are located in the vicinity of Mont Pelée at depths between 20 and 32 km, with local magnitude ranging from $M_{lv} = 1.0$ to $M_{lv} = 1.8$. The seismic signals of these types of earthquakes are enriched in (or contain only) low frequencies and are associated with the circulation of magmatic fluids in the depths of the Mount Pelée volcanic system.

No earthquake was felt by the population.

The week before, the OVSM had recorded **127 earthquakes** of volcanic origin. As of November 14, and during the last 4 weeks, the OVSM recorded a total of 505 volcanic earthquakes, and an average of **126 to 127 volcanic earthquakes** per week.

During phases of volcanic unrest on volcanoes similar to Mount Pelée, it is usual to observe seismic activity variable in intensity and frequency. The probability of eruptive activity in the short term remains low. However, given all the observations collected since the end of 2018 and their nature, and based on the recent observations of the OVSM-IPGP, we cannot exclude a medium-term evolution of the situation (weeks, months).

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

The alert level, in accordance with the provisions planned by the authorities, 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

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