

Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, December 26, 2025, 16:15 local time (GMT-4)

Volcanic activity has been stable this week with **54 volcanic earthquakes** observed.

Between December 19, 2025 at 16:00 (UTC) and December 26, 2025 at 16:00 (UTC), the OVSM has recorded:

- **50 shallow volcano-tectonic** type earthquakes. Among them, 2 have a magnitude (duration magnitude M_d or local magnitude M_{lv}) higher than 0.5. The largest has a magnitude **$M_{lv} = 0.9$** . The others are of lower energy. 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 of low energy. Among them, 1 was located at approximately 1 km below the summit of the volcano, with a magnitude $M_{lv} = 0.35$. The seismic signals of hybrid earthquakes are enriched in low frequencies and are associated with the circulation of fluids (gas, hydrothermal fluids) in the volcanic edifice.
- **2 deep long-period** type earthquakes. Among them, 1 was located at approximately 25 km depth in the vicinity of Mont Pelée, with a magnitude $M_{lv} = 0.75$. Deep long-period earthquakes are characterized by signals that contain only low frequencies and are associated with the circulation of magmatic fluids deep within the Mount Pelée volcanic system.

No earthquake was felt by the population.

The week before, the OVSM had recorded **60 earthquakes** of volcanic origin. As of December 26, and during the last 4 weeks, the OVSM recorded a total of 160 volcanic earthquakes, and an average of **40 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

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

Science for the planet

Institut de physique du globe
de Paris, OVSM
Lieu dit Blondel, Morne la Rosette,
Route de l'observatoire,
97250 Saint Pierre, Martinique

www.ipgp.fr/fr/ovsm/actualites-communiques-publics-de-lovsm
bluesky : [@ovsm.bsky.social](https://bsky.app/profile/ovsm.bsky.social)
facebook : [ObservatoireVolcanoSismoMartinique](https://www.facebook.com/ObservatoireVolcanoSismoMartinique)
youtube : [Chaîne IPGP](https://www.youtube.com/ChaîneIPGP)

1/1