

Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, August 15, 2025, 14:15 local time (GMT-4)

The volcanic activity has increased this week, with **218 volcanic earthquakes** observed.

Between August 8, 2025 at 16:00 (UTC) and August 15, 2025 at 16:00 (UTC), the OVSM has recorded:

- **216** 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 long-period** type earthquakes with magnitudes of $M_{lv} = 0.85$ and $M_{lv} = 0.7$ located at depths of 23 and 33 km respectively in the vicinity of Mount Pelée. Deep long-period events 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 **168 earthquakes** of volcanic origin. As of August 15, and during the last 4 weeks, the OVSM recorded a total of 720 volcanic earthquakes, and an average of **180 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

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