

Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, October 9, 2026, 16:00 local time (GMT-4)

Volcanic seismic activity

Between October 2 2026 at 16:00 (UTC) and October 9, 2026 at 16:00 (UTC), the OVSM has recorded **145** volcanic earthquakes:

- **143 volcano-tectonic** type earthquakes. 4 have a magnitude (local magnitude M_{lv} or duration magnitude M_d) higher than 1. The largest one has a magnitude **$M_{lv} = 1.54$** . The others are of lower energy. These earthquakes are located at depths between 0.5 and 4.2 km below the summit of the volcano.
- **2 hybrid** type earthquakes. They are located beneath Mount Pelée, at depths of 1.2 km and 5.6 km, with magnitudes of $M_{lv} = 1.17$ and $M_{lv} = 0.11$, respectively.

No earthquake was felt by the population.

The week before, the OVSM had recorded 226 earthquakes of volcanic origin. As of October 9, and during the last 4 weeks, the OVSM recorded a total of 692 volcanic earthquakes, corresponding to an average of **173 volcanic earthquakes** per week.

Deformation at Mont Pelée

Since May 2026, the OVSM has recorded multi-centimeters ground displacements in the summit area of Mont Pelée. The maximum extension recorded near the summit over the past four weeks was **0.7 cm** (along a 880-m-long profile). These displacements are consistent with deformation of the volcanic edifice induced by an inflating pressure source located at a depth of approximately 1 km beneath the summit.

The probability of eruptive activity in the short term remains low. However, considering the observations accumulated over the past months and years, an evolution of the situation in the medium term (weeks to months) cannot be excluded.

The alert level, in accordance with the provisions planned by the authorities, is currently **YELLOW: vigilance**.

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

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/>.

Science for the planet

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