Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

Activity of Mount Pelée

Saint-Pierre, October 23, 2026, 14:30 local time (GMT-4)

Volcanic seismic activity

Between October 16, 2026 at 16:00 (UTC) and October 23, 2026 at 16:00 (UTC), the OVSM has recorded **140** volcanic earthquakes:

- **139 volcano-tectonic** type earthquakes. 2 have a magnitude (local magnitude Mlv or duration magnitude Md) higher than 1. The largest on has a magnitude **Mlv = 2.21**. The others are of lower energy. These earthquakes are located at depths between 0.9 and 1.4 km below the summit of the volcano.
- **1 hybrid** type earthquake that cannot be located.

No earthquake was felt by the population.

The week before, the OVSM had recorded 62 earthquakes of volcanic origin. As of October 23, and during the last 4 weeks, the OVSM recorded a total of 573 volcanic earthquakes, corresponding to an average of **143 to 144 volcanic earthquakes** per week.

Deformation at Mont Pelée

The multi-centimeters ground displacements observed in the summit area of Mont Pelée over the past few months have decreased significantly. The maximum extension recorded near the summit over the past four weeks is **0.3 cm** (along a 570-m-long profile). These displacements remain consistent with deformation of the volcanic edifice driven by an inflating pressure source, although its position can no longer be precisely located.

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/.
To receive the weekly report by email, simply request it by mail at: infos@ovmp.martinique.univ-ag.fr
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Institut de physique du globe de Paris, OVSM
Lieu dit Blondel, Morne la Rosette,
Route de l'observatoire,
97250 Saint Pierre, Martinique

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