

## Weekly report

Institut de physique du globe de Paris

Observatoire volcanologique et sismologique de Martinique

### Activity of Mount Pelée

Saint-Pierre, May 29, 2026, 16:00 local time (GMT-4)

Between May 22, 2026 at 16:00 (UTC) and May 29, 2026 at 16:00 (UTC), the OVSM has recorded **51 volcanic earthquakes**:

- **47 volcano-tectonic** type earthquakes. Among them, 6 have a magnitude (local magnitude  $M_{lv}$  or duration magnitude  $M_d$ ) higher than 0.5 and 4 have a magnitude higher than 1. The largest one has a magnitude  $M_{lv} = 1.29$ . 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. Volcano-tectonic seismicity is associated with micro-fracturing in the volcanic edifice related to the overall reactivation of the volcano observed since 2019.
- **3 shallow long-period** type earthquakes. Among them, 2 were located and occurred in the same area as the volcano-tectonic type earthquakes. The seismic signals from these types of earthquakes are enriched in (or contain only) low frequencies and are associated with the circulation of fluids (gas, hydrothermal fluids) in the volcanic edifice.
- **1 deep long-period** type earthquake located at approximately 19.7 km depth to the southwest of Mount Pelée and with a magnitude  $M_{lv} = 0.50$ . 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 61 earthquakes of volcanic origin. As of May 29, and during the last 4 weeks, the OVSM recorded a total of 528 volcanic earthquakes, and an average of **132 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, considering the observations accumulated over the past several years, particularly in recent months, an evolution of the situation in the medium term (weeks to months) cannot be excluded.

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](mailto:infos@ovmp.martinique.univ-ag.fr)

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