



OVSM - IPGP – Friday 23th of April 2021 – 12h (local time, UTC-4h)

## Weekly report on the activity of la Montagne Pelée for the period from 16<sup>th</sup> to 23<sup>rd</sup> of April 2021

Seismicity of volcanic origin has decreased over the past week. Between April 16, 2021 4 p.m. (UTC) and April 23, 2021 4 p.m. (UTC), the OVSM recorded at least 49 volcano-tectonic earthquakes of magnitude less than 1.1 located at shallow depth inside the volcanic edifice, between 3.0 km below sea level and 0.1 km above sea level. None of these earthquakes were felt by the population. This superficial volcano-tectonic seismicity is associated with micro-fracturing in the volcanic edifice. The seismicity of volcanic origin remains above the average base level recorded between January 1, 2015 and April 2019.

A main zone of strongly degraded, browned and dead vegetation is still observed on the southwest flank of Montagne Pelée, between the upper Claire River and the Chaude River, above their confluence. This degradation of the vegetation is associated with the presence of diffuse and passive soil degassing of carbon dioxide (CO<sub>2</sub>, an odorless and colorless gas), from the ground, with concentrations above baseline values.

These observations reflect the dynamics of processes of magmatic and hydrothermal origin on la Montagne Pelée, in coherence with the volcanic unrest observed as of November 2020.

The reports of OVSM-IPGP are available at <http://www.ipgp.fr/fr/ovsm/actualites-communiques-publics-de-lovsm>. You can also find us on our Facebook and Twitter accounts.

The alert level remains YELLOW: vigilance.

The Director's office of OVSM IPGP.