



Montserrat Volcano Observatory

November 13, 2020
9:00 am

MVO Weekly Report for the Period 06 November to 13 November 2020

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded three volcano tectonic earthquakes and two rockfalls this week.

There are no SO₂ flux measurements to report during this reporting period.

Heavy rain on the evening of 09 November generated lahars in all valleys surrounding the volcano. The largest event appears to have occurred in the Belham Valley, where significant changes were caused by the erosion and deposition of sediment along the majority of the valley. The sand pits in the middle part of the valley have been partially re-filled with sediment while all tracks crossing the lower part of the valley were severely eroded. There was also significant erosion of the beaches where the lahars entered the sea at Old Road Bay.

Due to the large size of the lava dome, pyroclastic flows can occur at any time without warning on any side of the volcano, including Gages from where they can travel rapidly into Plymouth. Tracks across the Belham Valley can be destroyed or heavily modified by flash flooding or lahars, and caution should be exercised crossing the valley during and after rainfall.

The Hazard Level is 1. There is no public access to Zone V, including Plymouth. Maritime Zones E and W are daytime transit only between sunrise and sunset (boats may sail through the zone but must not stop). Anyone who ignores these restrictions is liable to be prosecuted.

This report along with additional information on the Soufrière Hills Volcano and the Hazard Level System can be found at the MVO website: www.mvo.ms. Old weekly reports can be downloaded from http://www.mvo.ms/pub/Activity_Reports/. You can also follow @mvoms on both Facebook and Twitter.

Graham A. Ryan
Director

Monitoring Data Summary

Seismic Activity (number of events)

	This week	Last week	Last 4 weeks (weekly average)
Rockfalls	2	0	0
VT earthquakes	3	11	9
Hybrid earthquakes	0	0	0
LP earthquakes	0	0	0

Sulphur Dioxide Flux (tonnes per day)

	This week	Last week	Last 4 weeks
Average	n/a	n/a	n/a
Maximum	n/a	n/a	n/a
Minimum	n/a	n/a	n/a

Note: The numbers provided in the tables above are provisional and may be subject to change after further analysis of the data.