



Montserrat Volcano Observatory

December 11, 2020
9:00 am

MVO Weekly Report for the Period 04 December to 11 December 2020

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded ten volcano tectonic earthquakes and one rockfall this week.

Measurements of SO₂ flux were taken by boat on 04 December and 08 December. The average flux values were 300 tonnes per day on the 04 December from ten traverses and 318 tonnes per day on 08 December from five traverses.

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	1	0	1
VT earthquakes	10	5	6
Hybrid earthquakes	0	0	0
LP earthquakes	0	0	0

Sulphur Dioxide Flux (tonnes per day)

	This week	Last week	Last 4 weeks
Average	306	255	n/a
Maximum	447	441	n/a
Minimum	186	147	n/a

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