



Montserrat Volcano Observatory

October 5, 2018
9:00 am

MVO Weekly Report for the Period 28 September to 05 October 2018

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded two volcano-tectonic earthquakes this week.

Data from the new permanent gas-monitoring stations, which are currently being tested, indicate that the flux remains in the range 100 to 400 tonnes per day. This week, measurements of the SO₂ flux were taken from the DOAS station at Windy Hill on 3 October. This is an additional spectrometer which has recently been installed to supplement the existing DOAS network. This will allow measurements of SO₂ to be captured when the wind blows the gas plume more towards the north, away from its usual position to the west of the volcano. Measurements from six scans at this station throughout the day on 3 October gave an average SO₂ flux of 261 tonnes per day.

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.

Patrick Smith
Acting Director

Monitoring Data Summary

Seismic Activity (number of events)

	This week	Last week	Last 4 weeks (weekly average)
Rockfalls	0	1	1
VT earthquakes	2	5	5
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.