



Montserrat Volcano Observatory

22 October, 2021
9:00 am

MVO Weekly Report for the Period 15 to 22 October 2021

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded 13 volcano-tectonic earthquakes and one rockfall this week.

SO₂ flux measurements were taken by boat on 18 October and by helicopter on 21 October. The average flux values were 162 tonnes per day on 18 October from four traverses and 414 tonnes per day on 21 October from eight 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 | 13 | 13 | 12 |
| Hybrid earthquakes | 0 | 0 | 0 |
| LP earthquakes | 0 | 0 | 0 |

Sulphur Dioxide Flux (tonnes per day)

| | This week | Last week | Last 4 weeks |
|----------------|------------------|------------------|---------------------|
| Average | 330 | 473 | 330 |
| Maximum | 467 | 601 | 460 |
| Minimum | 105 | 361 | 223 |

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