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# Montserrat Volcano Observatory

29 April, 2022  
9:00 am

## MVO Weekly Report for the Period 22 to 29 April 2022

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded 14 volcano-tectonic earthquakes and two rockfalls this week. Some small-scale rockfall activity started at approximately 22:50 on 28 April and continues. From the seismic data, these are located on the dome, perhaps in two different places, although poor visibility makes it impossible to confirm this. Rockfall activity like this has not been recorded for several years. The small rockfalls are not included in the weekly count, which only reflects large rockfalls. Out of an abundance of caution, activities in the Upper Belham and Plymouth have been suspended for the day.

SO<sub>2</sub> flux measurements were taken by boat on 25 April and by helicopter on 27 April. The average flux values were 563 tonnes per day on 25 April from 12 traverses and 355 tonnes per day on 27 April from ten 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](http://www.mvo.ms). Old weekly reports can be downloaded from [http://www.mvo.ms/pub/Activity\\_Reports/](http://www.mvo.ms/pub/Activity_Reports/). You can also follow @mvoms on both Facebook, Instagram, and Twitter.

**Graham A. Ryan**  
Director

## MVO Weekly Report for the Period 22 to 29 April 2022

### Monitoring Data Summary

#### Seismic Activity (number of events)

	This week	Last week	Last 4 weeks (weekly average)
Rockfalls	2	1	0
VT earthquakes	14	13	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	459	306	363
Maximum	637	448	566
Minimum	233	172	203

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