



Montserrat Volcano Observatory

21 June 2024
9:00 am

MVO Weekly Report for the Period 14 to 21 June 2024

Activity at the Soufrière Hills Volcano remains low.

The seismic network detected 14 Volcano-Tectonic, 12 Hybrid and one Long-Period earthquakes, and four Rockfalls. The Long-Period and Hybrid earthquakes, along with two VTs, occurred in a 20-hour-long swarm on 16 and 17 June 2024. While this is the highest rate of Hybrid and Long Period activity seen since a swarm in August 2012, it is still very low. Furthermore, we do not see any significant variations in any of our other monitoring data to suggest an imminent change in volcanic activity is likely.

Measurements of the SO₂ flux were taken from the helicopter on 19 June. There were 12 traverses with an average flux of 276 tonnes per day.

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, Instagram, and Twitter.

Graham A. Ryan
Director

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Monitoring Data Summary

Seismic Activity (number of events)

	This week	Last week	Last 4 weeks (weekly average)
Rockfalls	4	3	1
VT earthquakes	14	4	7
Hybrid earthquakes	12	0	0
LP earthquakes	1	0	0

Sulphur Dioxide Flux (tonnes per day)

	This week	Last week	Last 4 weeks
Average	276	234	214
Maximum	331	297	301
Minimum	226	160	130

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