



Montserrat Volcano Observatory

05 August 2022
9:00 am

MVO Weekly Report for the Period 29 July to 05 August 2022

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded ten volcano tectonic earthquakes this week. This included one event of magnitude 3.8 at approximately 11:52 am on 30 July. If you felt this earthquake, please leave a report at uwiseismic.com in the “Did you feel it?” section or contact the MVO.

SO₂ flux measurements were taken by boat on 28 July and by helicopter on 04 August. The average flux values were 373 tonnes per day on 28 July from 14 traverses and 261 tonnes per day on 04 August from 12 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, 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	0	0	0
VT earthquakes	10	10	11
Hybrid earthquakes	0	0	0
LP earthquakes	0	0	0

Sulphur Dioxide Flux (tonnes per day)

	This week	Last week	Last 4 weeks
Average	317	455	516
Maximum	572	1080	1179
Minimum	196	192	266

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