



Montserrat Volcano Observatory

20 January 2023
9:00 am

MVO Weekly Report for the Period 13 to 20 January 2023

Activity at the Soufrière Hills Volcano remains low.

The seismic network recorded 18 volcano tectonic earthquakes this week.

SO₂ flux measurements were taken by helicopter on 18 January and by boat on 19 January. The average flux values were 333 tonnes per day on 18 January from 12 traverses and 429 tonnes per day on 19 January 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	1	0
VT earthquakes	18	9	8
Hybrid earthquakes	0	0	0
LP earthquakes	0	0	0

Sulphur Dioxide Flux (tonnes per day)

	This week	Last week	Last 4 weeks
Average	429	455	428
428Maximum	932	880	646
Minimum	257	157	272

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