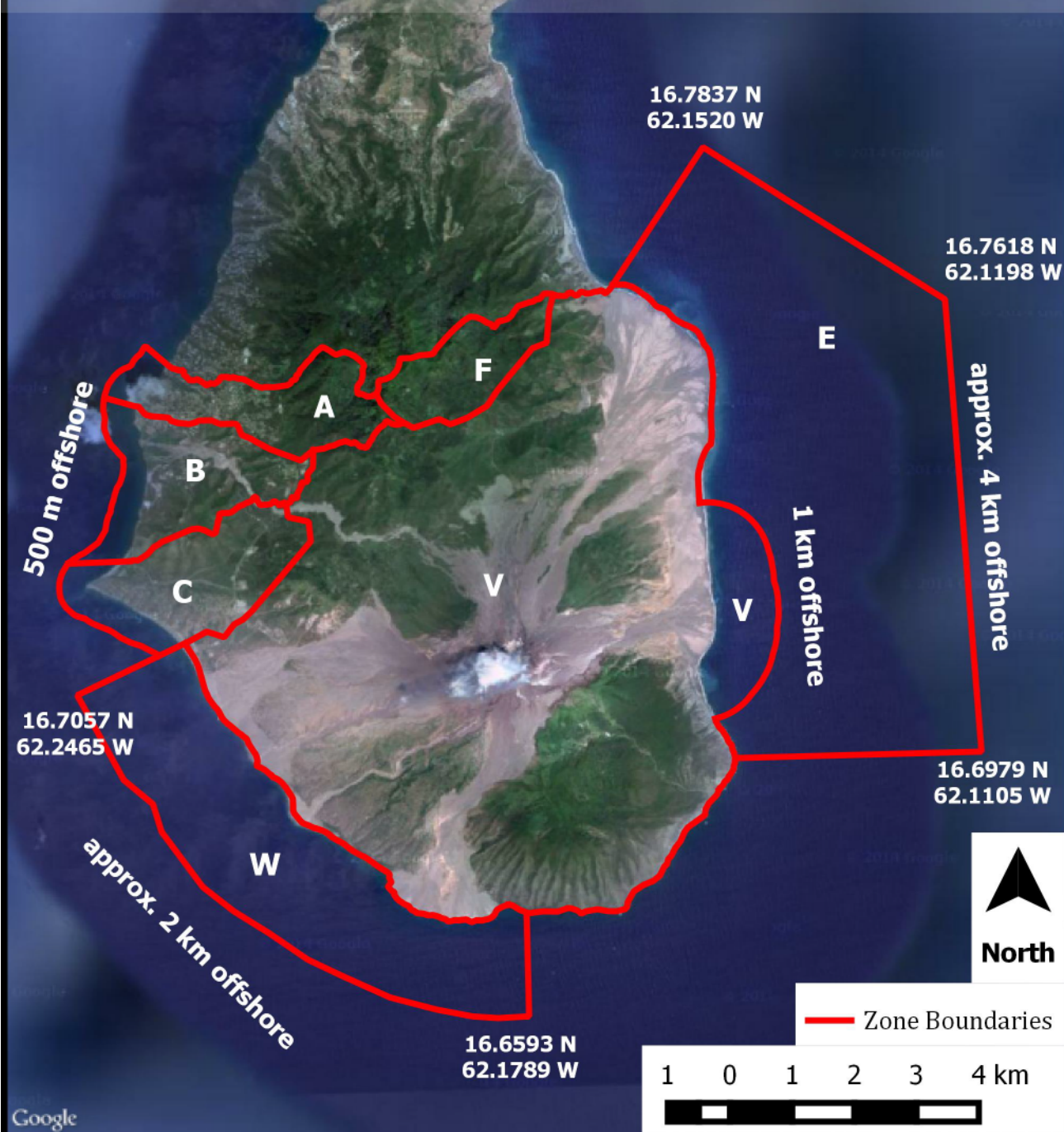


# Montserrat Hazard Level System Zones

Last updated 1 August 2014



Soufrière Hills Volcano, Montserrat

# HAZARD LEVEL SYSTEM

Version 3  
1 August 2014

Zones	
<b>A</b>	South of Nantes River, including: Salem, Frith, Flemmings, parts of Olveston and Old Towne, and upper part of Happy Hill.
<b>B</b>	Iles Bay, Belham, Waterworks, parts of Old Towne and lower part of Happy Hill.
<b>C</b>	Cork Hill, Weekes, Fox's Bay, Richmond Hill and Delvins.
<b>F</b>	Corbett Springs, Locust Valley. This zone is dedicated to farming and is defined by NDPRAC.
<b>V</b>	St George's Hill, Soufrière Hills, South Soufrière Hills, Plymouth, Lee's, Harris, and Spanish Point. Includes maritime area up to 1 km from mouth of Tar River Valley.
Maritime Zones	
<b>W</b>	2 km offshore between Sturge Point and O'Garra's.
<b>E</b>	4 km offshore between Roche's Yard and Spanish Point, decreasing to 2 km offshore from Spanish Point to Pelican Ghaut.

Hazard Level <sup>1</sup>		0	1	2	3	4	5
<b>Typical Activity<sup>2</sup></b>		More than one year with no measured activity. <sup>3</sup> Only volcano-environmental hazards. <sup>4</sup>	No surface activity <sup>5</sup> for an extended period. Low measured activity. <sup>3</sup>	No surface activity that threatens the north or west. <sup>6</sup> Low measured activity. <sup>3</sup>	Mild surface activity that threatens the west. <sup>7</sup> Significant change of measured activity. <sup>8</sup> High measured activity. <sup>9</sup>	Lava extrusion that threatens the north or west. Large unstable dome to the north or west.	Threat of large pyroclastic flows to the north or north-west. Threat of lateral blast or sector collapse.
<b>Zones</b>	<b>A</b>	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Controlled Access
	<b>B</b>	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Controlled Access	Controlled Access
	<b>C</b>	Unrestricted	Unrestricted	Daytime Access	Controlled Access	Controlled Access	Essential Workers
	<b>F</b>	Unrestricted	Unrestricted	Daytime Access	Daytime Access	Controlled Access	Controlled Access
	<b>V</b>	Access to Some Areas	Controlled Access	Essential Workers	Essential Workers	Essential Workers	Essential Workers
<b>Maritime Zones</b>	<b>W</b>	Unrestricted	Daytime Transit	Daytime Transit	Daytime Transit	Essential Workers	Essential Workers
	<b>E</b>	Unrestricted	Daytime Transit	Essential Workers	Essential Workers	Essential Workers	Essential Workers

### Severe Weather

The Hazard Level or access restrictions may be changed for severe weather such as unusually high rainfall, storms or hurricanes.

### Changes

Changes in the Hazard Level, access restrictions or the times of any Daytime Access, are announced on ZJB, Radio Montserrat and by MVO.

### Notes

- 1 The Hazard Level is not related to the Alert Level used prior to 1 August 2008.
- 2 The descriptions of typical activity are indicative only. The Hazard level will be set based on an assessment of the actual activity.
- 3 Measured activity refers to all the monitoring techniques used by MVO including seismic, ground deformation, gas measurements and visual observations.
- 4 Volcano-environmental hazards are hazards that exist after lava extrusion and dome growth has stopped. They include lahars and landslides.
- 5 Surface activity includes lava extrusion, dome growth and pyroclastic flows.
- 6 For example, a lava dome contained by the crater.
- 7 For instance, mild ash venting from vents located on the northern or western side of the crater with no measured activity that might be a precursor to larger activity.
- 8 Any change in measured activity which may be a precursor to an eruption caused by a sudden rise of magma beneath the dome. This may or may not, be accompanied by surface activity such as explosions or dome growth.
- 9 A high level of measured activity which may be the precursor to an eruption caused by the steady rise of magma within the volcano. This may, or may not, be accompanied by surface activity such as explosions or dome growth.
- 10 The times for Daytime Access are set by NDPRAC and publicised on ZJB and by MVO.
- 11 Approval is co-ordinated by the Director, DMCA.

### Access Restrictions

#### Unrestricted

Ashfall and lahars can be significant hazards in all areas, and require appropriate precautions.

#### Daytime Access<sup>10</sup>

Access is permitted during daytime only. Access gates will be locked at all other times.

#### Daytime Transit<sup>10</sup>

Boats permitted to travel through the Maritime Zone without stopping during daytime only.

#### Access to Some Areas

Areas will be defined depending on the state and location of volcano-environmental hazards.

#### Controlled Access

No access without approval from NDPRAC<sup>11</sup>. Gates will be locked at all times.

#### Essential Workers

No access apart from MVO and associated staff. Access for essential maintenance only with approval from NDPRAC<sup>11</sup>. Gates will be locked at all times.

## Hazard Level System Version 3 1 August 2014



Further information: [www.mvo.ms](http://www.mvo.ms)