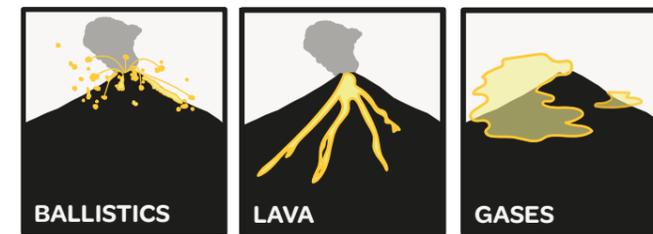


Taranaki Maunga OTHER VOLCANIC PROCESSES



Flying hot rocks BALLISTICS

➤ Ballistics are **flying rocks** ejected during an eruption.



Source: Mark Simpson, GNS Science

Where will ballistics go?

- Ballistics are confined to the upper slopes of the volcano, **within 6 km** from the top.
- The map shows the area where ballistics may happen during a future eruption.



Main impacts



Ballistics are **lethal** and **highly damaging**.
They can damage buildings and structures close to an eruption.

What should you do if you see ballistics coming towards you?

- 1** **Seek shelter** and cover your head with your pack.
- 2** If you can, **leave the area** and head down the volcano immediately.

Hot flowing molten rock LAVA FLOWS

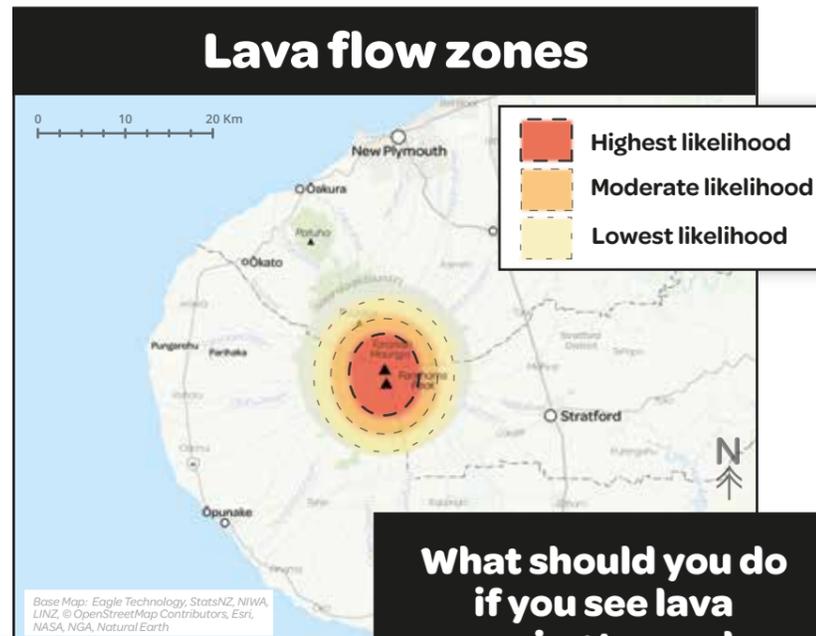
➤ Lava flows are **streams of molten rock** that pour from an eruption flowing down slopes.



Lava flows on Arenal volcano in Costa Rica

Where will lava flows go?

- Lava flows usually start higher up on the maunga, flowing down valleys over time.
- They are likely to happen in areas that are **within 8 km** from the top.



Main impacts



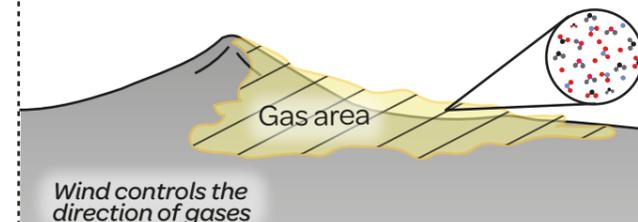
Lava flows will **destroy** everything in their path.
Lava flows **set fire** to buildings and vegetation.

What should you do if you see lava coming towards you?

- 1** **Leave the area** and head down the volcano immediately.
- 2** **Avoid any valleys** or low points as you're leaving.

Silent and invisible GASES

➤ **Volcanic gases** are often released before, during and after an eruption.



As magma rises it releases:

- Water (H₂O)
- Hydrogen Sulphide (H₂S)
- Sulphur Dioxide (SO₂)
- Carbon Dioxide (CO₂) and other gases.

Where will gases go?

- Dangerous amounts of gases usually only occur very close to the volcano.
- Areas affected will depend on the wind direction.



Source: HVO, USGS
The photo shows a layer of vog near Mauna Loa volcano, Hawai'i.

Main impacts



Volcanic gases can form a weak **acid rain** or volcanic fog, called **vog**.
Volcanic gases are usually an **irritant**, but worsen symptoms for people who have **pre-existing health conditions**.

What should you do if you smell or are warned of volcanic gases?

- 1** **Stay indoors.** Close all doors and windows, and seal up large gaps to the outdoors.
- 2** If **outdoors** use an **approved mask**.
- 3** **People with pre-existing health conditions should carefully monitor their health** and contact their doctor as necessary.

These maps do not show the exact areas or the level to which areas will be impacted in a future eruption. Volcanic activity may change the features on this map and hazard zones may change without notice.

See the whole series from Taranaki Emergency Management at cdemtaranaki.govt.nz

