

# Lava spread raises fears of more damage on Spanish island

September 23 2021, by Renata Brito and Barry Hatton

---



Lava from a volcano eruption flows on the island of La Palma in the Canaries, Spain, Thursday, Sept. 23, 2021. A volcano on a small Spanish island in the Atlantic Ocean erupted on Sunday, forcing the evacuation of thousands of people. Experts say the volcanic eruption and its aftermath on a Spanish island could last for up to 84 days. Credit: AP Photo/Emilio Morenatti

The advance of lava from a volcanic eruption on one of Spain's Canary Islands has slowed significantly, raising fears Thursday that the molten rock might fan out further in coming days and wreak more destruction instead of just flowing out into the sea.

One giant river of lava 600 meters (2,000 feet) wide slowed to four meters (13 feet) per hour after reaching a plain on Wednesday, officials said. On Monday, a day after the eruption on La Palma, it was moving at 700 meters (2,300 feet) per hour.

A second stream of lava has virtually ground to a halt, the head of the National Geographic Institute in the Canary Islands, María José Blanco, told a news conference.

It won't reach the Atlantic Ocean before the weekend, she said, with some scientists saying it might never reach the sea.

Blanco said seismic activity on La Palma island was now "low" but molten rock is still being thrown out of the volcano—26 million cubic meters so far.

Stavros Meletlidis, a volcanologist at Spain's National Geographic Institute, said the dynamics of any eruption were in constant flux.

"The lava is advancing very slowly because it cools in contact with the atmosphere, through friction with the ground and building materials and, above all, because its front edge is widening out," he told Radio Televisión Canaria.



Lava from a volcano eruption flows on the island of La Palma in the Canaries, Spain, Thursday, Sept. 23, 2021. A volcano on a small Spanish island in the Atlantic Ocean erupted on Sunday, forcing the evacuation of thousands of people. Experts say the volcanic eruption and its aftermath on a Spanish island could last for up to 84 days. Credit: AP Photo/Emilio Morenatti

As it slowed, the lava grew thicker. In places, it rose up to 15 meters (50 feet) high, authorities said. It now covers 166 hectares (410 acres) and has swallowed up around 350 homes.

The uncertainty left many residents on the western side of the island of 85,000 people in limbo. Scientists say the lava flows could last for weeks or months.

Joel Francisco, 38, said he and his elderly parents had to evacuate the area around the village of Todoque in a rush, taking only a few belongings and important documents.

Now that the flow seems to have slowed, he hopes to go back and retrieve some more things in case the house is entombed in lava—if police let him.

"We don't know how long we have to wait until we can return to our homes because the roads are closed," he told The Associated Press. "Some people have it worse off, their houses are gone."



Lava from a volcano eruption flows on the island of La Palma in the Canaries, Spain, Thursday, Sept. 23, 2021. A volcano on a small Spanish island in the Atlantic Ocean erupted on Sunday, forcing the evacuation of thousands of

people. Experts say the volcanic eruption and its aftermath on a Spanish island could last for up to 84 days. Credit: AP Photo/Emilio Morenatti

Like many on the island, Francisco works on a banana plantation, and his livelihood is also at risk of being ruined by lava or damaged by volcanic ash.

"We are waiting to see if we can go out to work or not," he said. "This changed our life."

Spain's King Felipe VI, who visited the homeless Thursday along with Queen Letizia and Prime Minister Pedro Sánchez, vowed to help the island's needy.

"Suddenly, you have had almost everything taken from you, in one fell swoop. No home, no equipment, no clothes, no food, no resources, no work," the monarch told reporters.

"We have to do everything we can to help these families."

The eruption occurred along the island's Cumbre Vieja volcanic ridge. The Canary Islands are a volcanic archipelago. La Palma witnessed its last eruption in 1971.

As lava, ash and smoke continued to pour from the volcano, shooting up to 4,200 meters (nearly 14,000 feet) high, there were concerns about whether airspace above the island should remain open.



Lava from a volcano eruption flows on the island of La Palma in the Canaries, Spain, Thursday, Sept. 23, 2021. A volcano on a small Spanish island in the Atlantic Ocean erupted on Sunday, forcing the evacuation of thousands of people. Experts say the volcanic eruption and its aftermath on a Spanish island could last for up to 84 days. Credit: AP Photo/Emilio Morenatti



Lava from a volcano eruption flows on the island of La Palma in the Canaries, Spain, Thursday, Sept. 23, 2021. A volcano on a small Spanish island in the Atlantic Ocean erupted on Sunday, forcing the evacuation of thousands of people. Experts say the volcanic eruption and its aftermath on a Spanish island could last for up to 84 days. Credit: AP Photo/Emilio Morenatti

ENAIRE, which manages Spain's airspace, said two areas above the affected area are being declared no-fly zones to allow emergency services to operate freely. Many flights to and from La Palma were delayed early Thursday.

Volcanic ash can be dangerous for aircraft. It can also cause respiratory problems, as well as potentially being an irritant for the eyes and skin.

The Emergency Military Unit deployed on the island said the readings it has taken of the air found no threat to health.

Authorities haven't reported any casualties from the eruption. Scientists had been monitoring the volcanic activity and had warned of a possible eruption, allowing almost 7,000 people to be evacuated in time.

Officials had initially expressed fears about what would happen when the lava reached the Atlantic. The molten rock, whose temperature exceeds 1,000 C (more than 1,800 F), could cause explosions, trigger landslides and produce toxic gas when it hits the water, experts say.

Life on the rest of La Palma, which is roughly 35 kilometers (22 miles) long and 20 kilometers (12 miles) wide at its broadest point, has been largely unaffected, with undeterred tourists landing for previously scheduled vacations.

© 2021 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Lava spread raises fears of more damage on Spanish island (2021, September 23) retrieved 11 May 2024 from <https://phys.org/news/2021-09-lava-spanish-island.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.