

Toxic cloud caused by Hawaii volcano lava emerges over ocean

21 May 2018, by Caleb Jones And Audrey Mcavoy



Joe Kekedi watches as lava enters the ocean, generating plumes of steam near Pahoa, Hawaii Sunday, May 20, 2018. Kilauea volcano that is oozing, spewing and exploding on Hawaii's Big Island has gotten more hazardous in recent days, with rivers of molten rock pouring into the ocean Sunday and flying lava causing the first major injury. (AP Photo/Jae C. Hong)

White plumes of acid and extremely fine shards of glass billowed into the sky over Hawaii as molten rock from Kilauea volcano poured into the ocean, creating yet another hazard from an eruption that began more than two weeks ago: A toxic steam cloud.

Authorities on Sunday warned the public to stay away from the cloud that formed by a chemical reaction when lava touched seawater.

Further upslope, lava continued gushing out of large cracks in the ground in residential neighborhoods in a rural part of the Big Island. The molten rock made rivers that bisected forests and farms as it meandered toward the coast.

The rate of sulfur dioxide gas shooting from the ground fissures tripled, leading Hawaii County to

repeat warnings about air quality. At the volcano's summit, two explosive eruptions unleashed clouds of ash. Winds carried much of it toward the southwest.

Joseph Kekedi, an orchid grower who lives and works about 3 miles (5 kilometers) from where lava dropped into the sea, said the flow luckily did not head toward him. At one point, it was about a mile (asterisk)1.6 kilometers) upslope from his property in the coastal community of Kapoho.

Residents can only stay informed and be ready to get out of the way, he said.

"Here's nature reminding us again who's boss," Kekedi said.



Steam rises as lava flows into the ocean near Pahoa, Hawaii, Sunday, May 20, 2018. Kilauea volcano that is oozing, spewing and exploding on Hawaii's Big Island has gotten more hazardous in recent days, with rivers of molten rock pouring into the ocean Sunday and flying lava causing the first major injury. (AP Photo/Jae C. Hong)

Scientists said the steam clouds at the spots where

lava entered the ocean were laced with hydrochloric acid and fine glass particles that can irritate skin and eyes and cause breathing problems.

The lava haze called "laze" from the plume spread as far as 15 miles (24 kilometers) west of where the lava met the ocean on the Big Island's southern coast. It was just offshore and running parallel to the coast, said U.S. Geological Survey scientist Wendy Stovall.

Scientists said the acid in the plume was about as corrosive as diluted battery acid. The glass was in the form of fine glass shards. Getting hit by it might feel like being sprinkled with glitter.

"If you're feeling stinging on your skin, go inside," Stovall said. Authorities warned that the plume could shift direction if the winds changed.



Brittany Kimball watches as lava erupts from a fissure near Pahoa, Hawaii, Saturday, May 19, 2018. Two fissures that opened up in a rural Hawaii community have merged to produce faster and more fluid lava. Scientists say the characteristics of lava oozing from fissures in the ground has changed significantly as new magma mixes with decades-old stored lava. (AP Photo/Jae C. Hong)

The Coast Guard said it was enforcing a safety zone extending 984 feet (300 meters) around the ocean entry point.

Coast Guard Lt. Cmdr. John Bannon said in a

statement Sunday that "getting too close to the lava can result in serious injury or death."

Gov. David Ige told reporters in Hilo that the state was monitoring the volcano and keeping people safe.

"Like typical eruptions and lava flows, it's really allowing Madam Pele to run its course," he said, referring to the Hawaiian goddess of volcanoes and fire.



Members of the media record a wall of lava entering the ocean near Pahoa, Hawaii, Sunday, May 20, 2018. Kilauea volcano, oozing, spewing and exploding on Hawaii's Big Island, has gotten more hazardous in recent days, with rivers of molten rock pouring into the ocean and flying lava causing the first major injury. (AP Photo/Jae C. Hong)

Ige said he was thankful that the current lava flows did not pose a threat to homes and hoped it would stay that way.

On Saturday, the eruption claimed its first major injury when a man was struck in the leg by a flying piece of lava.

David Mace, a spokesman for the Federal Emergency Management Agency who was helping Hawaii County respond to the disaster, did not have further details about the man's injuries or his condition.

Kilauea has burned some 40 structures, including two dozen homes, since it began erupting in people's backyards in the Leilani Estates neighborhood on May 3. About 2,000 people have evacuated their homes, including 300 who were staying in shelters.

reached about 7,000 feet (2,134 meters). Officials said wind carried the ash plume to the southwest, toward the communities of Wood Valley, Pahala, Naalehu and Waiohinu.



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In recent days, the lava began to move more quickly and emerge from the ground in greater volume. Scientists said that's because the lava that first erupted was magma left over from a 1955 eruption that had been stored in the ground for the past six decades.

Scientists have said they do not know how long the eruption will last. The volcano has opened more than 20 vents, including four that have merged into one large crack. It has been gushing lava high into the sky and sending a river of molten rock toward the ocean at about 300 yards (274 meters) per hour.

The molten rock that began emerging over the past few days was from magma that has recently moved down the volcano's eastern flank from one or two craters that sit further upslope—the Puu Oo crater and the summit crater.

Hawaii tourism officials have stressed that most of the Big Island remains unaffected by the eruption and is open for business.

The new lava is hotter, moves faster and has spread over a wider area.

Early Monday, a small eruption occurred at the Kilauea summit, producing an ash plume that



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Lava flows into the ocean near Pahoa, Hawaii, Sunday, May 20, 2018. Kilauea volcano that is oozing, spewing and exploding on Hawaii's Big Island has gotten more hazardous in recent days, with rivers of molten rock pouring into the ocean Sunday and flying lava causing the first major injury. (AP Photo/Jae C. Hong)



People take pictures as lava enters the ocean, generating plumes of steam near Pahoa, Hawaii Sunday, May 20, 2018. Kilauea volcano that is oozing, spewing and exploding on Hawaii's Big Island has gotten more hazardous in recent days, with rivers of molten rock pouring into the ocean Sunday and flying lava causing the first major injury. (AP Photo/Jae C. Hong)



A plume of steam rises as lava enters the ocean near Pahoa, Hawaii, Sunday, May 20, 2018. Kilauea volcano that is oozing, spewing and exploding on Hawaii's Big Island has gotten more hazardous in recent days, with rivers of molten rock pouring into the ocean Sunday and flying lava causing the first major injury. (AP Photo/Jae C. Hong)

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