The illustration depicts a volcanic landscape. In the upper left, a volcano is erupting, with bright orange and yellow lava flows cascading down its slopes. A dark, winding path of lava flows across the middle ground. In the foreground, two children, a boy and a girl, are looking towards the lava flow with expressions of concern. The boy is on the left, wearing a light-colored shirt and a blue hood. The girl is on the right, wearing a purple and white dress, with her hands raised in a gesture of surprise or warning. In the background, a woman in a long, colorful dress stands on a grassy area, gesturing towards the lava. The scene is set against a backdrop of palm trees and distant mountains under a clear sky.

A True Princess of Hawai'i

by Beth Greenway

illustrated by Tammy Yee

A True Princess of Hawai'i

Nani has always dreamed of being a princess. When a real Hawaiian princess comes to her hometown of Hilo, Nani dresses in her best clothes. But as she watches Princess Luka, who has come to save the town from a volcanic lava flow, Nani learns that there is more to being a princess than fine clothes. This incredible story of kindness and generosity is based on the historical events of the 1880-1881 eruption of Mauna Loa on the Island of Hawai'i and the real-life Princess Luka.



Arbordale Publishing offers so much more than a picture book. We open the door for children to explore the facts behind a story they love.

Thanks to Dr. Barbara Moir, President and Curator of Education at the Lyman Museum in Hilo, HI, for verifying the accuracy of the information in this book.

The *For Creative Minds* includes

- Pacific Rim of Fire
- Princess Luka and Mauna Loa
- Volcanic Vocabulary Matching

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Beth Greenway lived in Hawai'i for many years and raised her three hula-dancing daughters there. She studied anthropology in college and started writing during her time in Hawai'i. Her books reflect her love of the islands. Beth is the author of *A Lei for Everyday*, *Waikiki Lullaby*, *Hawai'i's Foodtrucks on the Go*, *The Twelve Days of Hula*, and *Hawaiian Ocean Lullaby*. Beth now lives in Mississippi with her husband, cats, and the three family dogs: Hoku and Poli from Hawai'i and Donny from the mainland. Visit her website at bethsbooks.livejournal.com.

Tammy Yee grew up in Honolulu, Hawai'i, where she explored tide pools, swam in streams, and wrote and illustrated spooky stories. After college, she worked as a pediatric registered nurse. Having children rekindled her love for picture books, so in 1994 she exchanged her stethoscope for a paintbrush and has been illustrating ever since. Tammy has worked on more than thirty books including *The Tsunami Quilt: Grandfather's Story*, *Lullaby Moon*, and *Baby Honu's Incredible Journey*. At one point, Tammy lived above Hilo, in a subdivision built on the remnants of the lava flow featured in this story. Tammy currently lives in Oahu with her family, two rabbits, a chinchilla, a cockatiel, a cat and a burping bulldog named Roxy. In her spare time, she raises monarch butterflies and creates paper projects for her origami website. Visit her website at www.tammyyee.com.

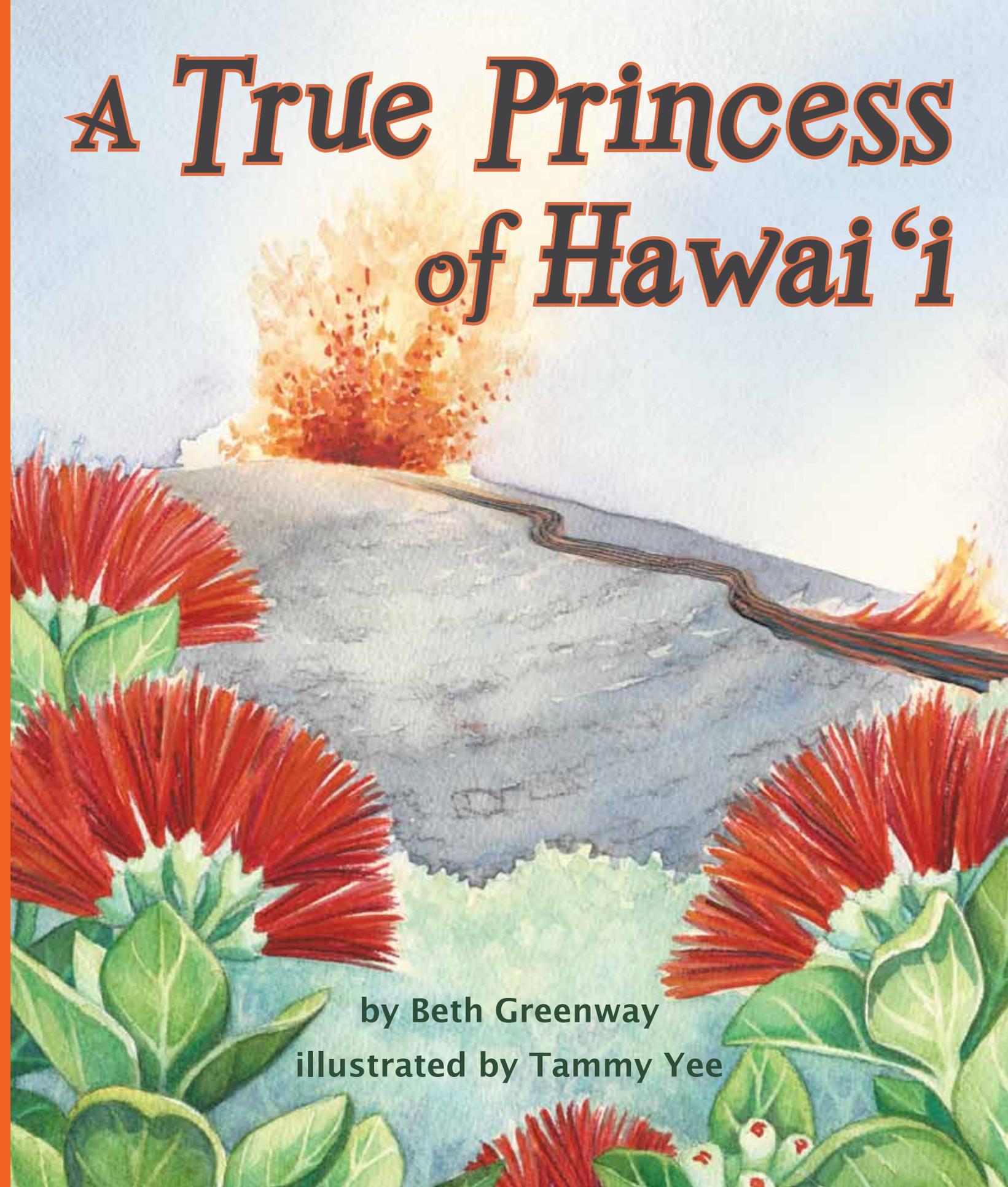


Beth Greenway

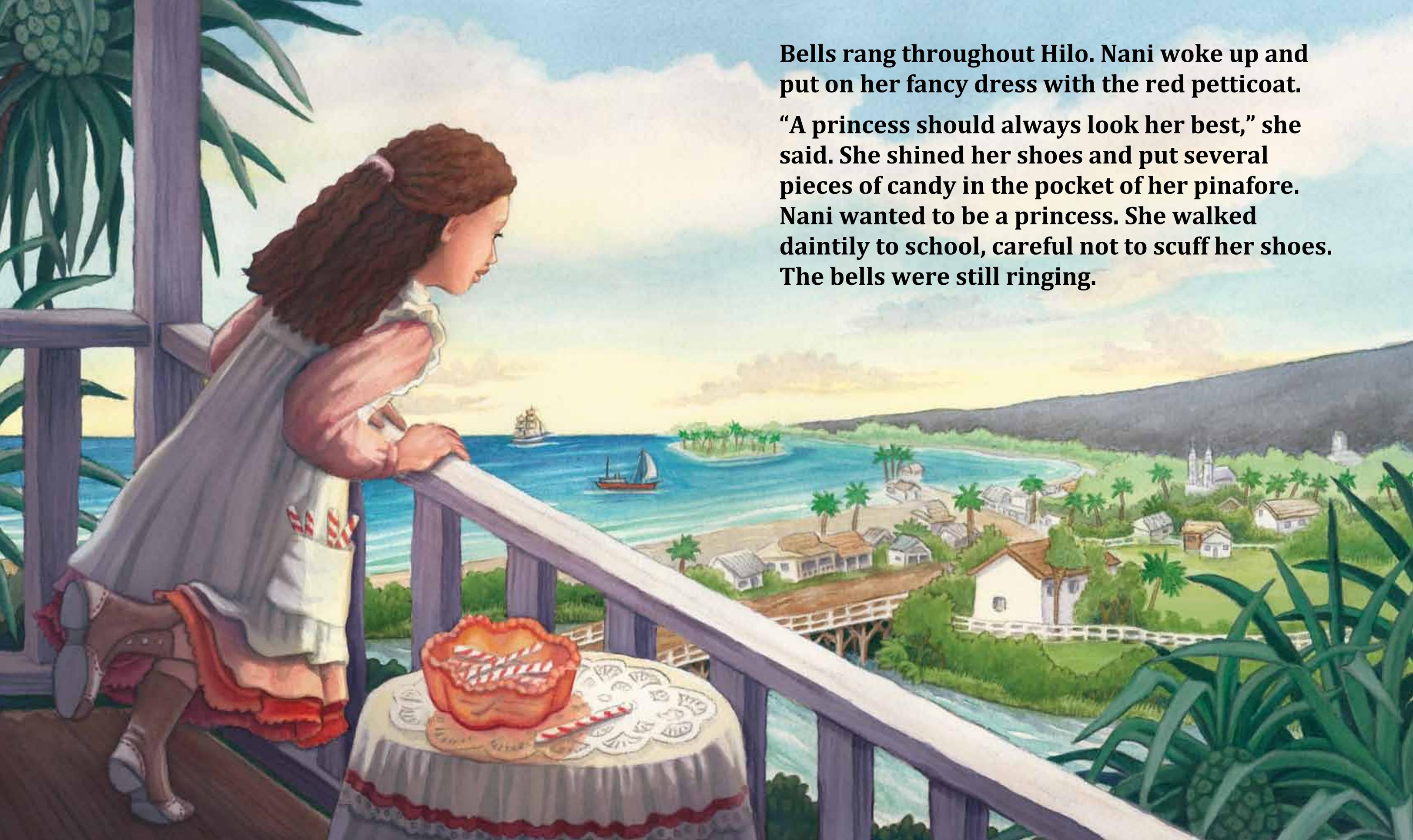


Tammy Yee

A True Princess of Hawai'i



by **Beth Greenway**
illustrated by **Tammy Yee**



Bells rang throughout Hilo. Nani woke up and put on her fancy dress with the red petticoat. “A princess should always look her best,” she said. She shined her shoes and put several pieces of candy in the pocket of her pinafore. Nani wanted to be a princess. She walked daintily to school, careful not to scuff her shoes. The bells were still ringing.



The neighbor boy Keoki ran past her. “What is happening?” Nani called out. Keoki slowed down. “No school today. Lava is flowing from the mountain. It is heading for Hilo.”

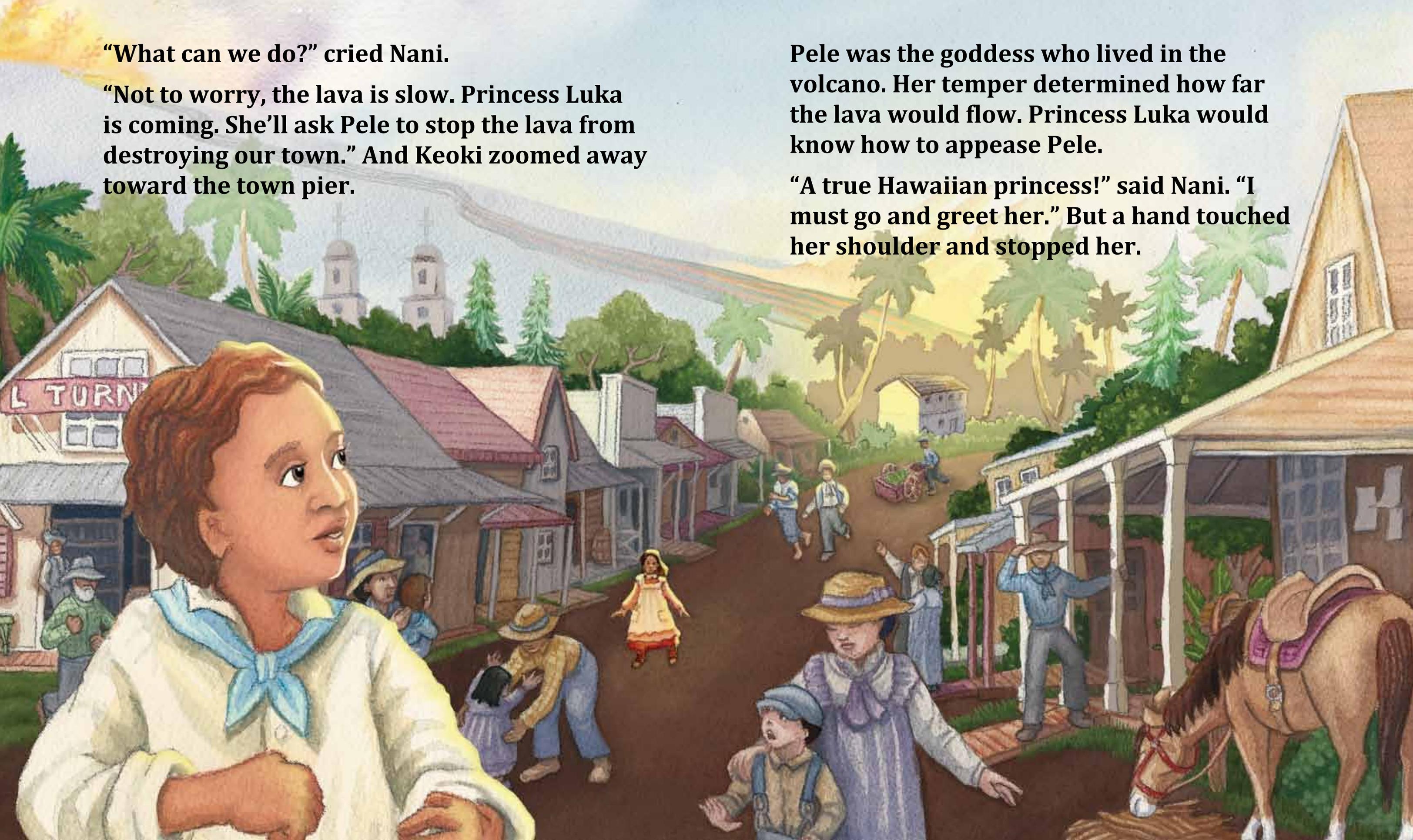
Mauna Loa, the largest volcano in the world, had been bubbling with lava for months, but it had never before come this close. It poured out of a vent on the side of the volcano. Down the rocky slopes it traveled. Once the lava started, there was no way to stop it.

“What can we do?” cried Nani.

“Not to worry, the lava is slow. Princess Luka is coming. She’ll ask Pele to stop the lava from destroying our town.” And Keoki zoomed away toward the town pier.

Pele was the goddess who lived in the volcano. Her temper determined how far the lava would flow. Princess Luka would know how to appease Pele.

“A true Hawaiian princess!” said Nani. “I must go and greet her.” But a hand touched her shoulder and stopped her.



A very old woman wrapped in white stood before Nani. "Little girl, might you spare a bite to eat?"

Poor old grandmother, thought Nani, she must have come from the mountain. Perhaps lava has destroyed her home.

"Here, Tutu, this is all I have," said Nani and she placed several pieces of candy in the old woman's hand. "I must go now, the princess is coming."



Nani squinted down the street. When she turned back, the old woman had gone. Nani shrugged and hurried on her way.

For Creative Minds

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Pacific Rim of Fire

A volcano is a landform that vents molten rock, or **magma**, up through the earth's surface. **Molten** means that the rock is so hot it turns to liquid. Volcanoes often look like mountains.

The earth's surface is made up of giant plates. These plates are the outer, rigid layer of the earth, just like an orange peel is the outer layer of the fruit.

The **mantle** is the layer underneath the earth's plates. It is made of mostly solid rock. Heat within the Earth's interior melts some of this solid rock to form magma. Magma is less dense than the solid rock, so it rises toward the surface. If it reaches the surface, the molten rock is called **lava**.

Volcanoes are most common on the boundaries between the earth's plates. Volcanoes can also form over **hot spots**, especially hot areas in the earth's mantle. Magma formed at a hot spot can rise through the earth and reach the surface.

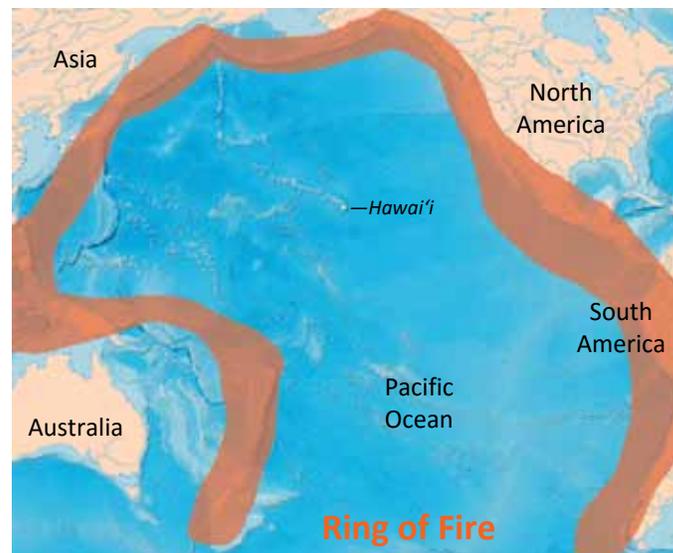
Volcanoes form when magma erupts to the surface. Magma is stored in large, underground chambers beneath the earth's surface. Over time, pressure builds inside the magma chamber. Eventually the magma vents upward through the earth's surface in a **volcanic eruption**.

One of the earth's major plates is the Pacific Plate, which lies beneath the Pacific Ocean.

The Hawaiian Islands are near the center of the Pacific Plate. These islands were created by a hot spot that vented magma onto the ocean floor. Over time, enough lava piled up to form islands that rise above sea level.

A chain of islands, like the Hawaiian Islands, is called an archipelago.

Most (75%) of the world's active volcanoes are located around the edges of the Pacific Ocean. This area is called the **Ring of Fire**.



Portrait of Princess Ruth Keelikolani Wearing Ornaments (in All Her Monumentality) 1909

DOE Oceania: Amer Polynesia: Hawaiian: NM 50997 04892200, National Anthropological Archives, Smithsonian Institution



Princess Luka and Mauna Loa

Princess Ruth Luka Keanolani Kauanāhoahoa Ke'elikōlani was born in 1826. She was part of the Kamehameha royal family of the Kingdom of Hawai'i. Her mother, High Chiefess Kalani Pauahi, died giving birth to her, and her mother's husband sent the baby princess away. Queen Kaahumanu adopted Princess Luka.

Princess Luka was the Royal Governor of the Island of Hawai'i, a major landowner, and the wealthiest woman in the islands. The people of Hawai'i loved and respected her.

On November 5, 1880, a volcano called Mauna Loa started to erupt. Over the next few months, thick lava crept toward the town of Hilo. The townspeople could see the glow of forests burning. In June of 1881, the lava was only five miles from Hilo. The town organized a day of prayer. But the lava kept coming. It moved 100-500 feet each day. In late July, Princess Luka travelled to Hilo. A borrowed wagon took her to the lava flow. By August 10, 1881, the flow stopped. It was only a mile and a half away from Hilo Bay. The town was safe.

When Princess Luka died, she left most of her property to her cousin. Princess Bernice Pauahi used Princess Luka's wealth to form schools for the children of Hawai'i. To this day, the Kamehameha Schools teach the Hawaiian language and the hula . . . and Princess Luka's love for her people and culture lives on.

Fact or fiction?

The story in this book is fiction, but it is based on a true story (above). Compare the two versions and answer the following questions based on the historical facts.

1. Was Princess Luka a real person or a fictional character?
2. Were Nani and Keoki real people or fictional characters?
3. Did the lava flow from Mauna Loa move fast or slow?
4. How did Princess Luka travel from the shore to the lava flow?
5. Did the lava stop as soon as Princess Luka arrived?



Volcanic Vocabulary Matching

Match the volcano terms with their location on the next page.

ash: tiny pieces of rock and volcanic glass that are exploded or carried into the air during an eruption. Ash can be carried by the wind for great distances from the vent.

conduit: the path magma travels from the magma chamber to the vent. A conduit can have one direct path from the magma chamber to the surface, or it can split and lead to multiple vents.

crust: the solid, top layer of the earth, which forms the continents and the land under the oceans.

lava: molten rock erupted at the surface. Lava cools and hardens as it flows along the ground.

magma chamber: a place within a volcano where magma is stored before an eruption. When pressure builds inside the chamber, magma moves to the surface, where it erupts from a volcanic vent.

mantle: the layer of mostly solid rock underneath the earth's crust.

vent: where magma is erupted on to the earth's surface. On Hawaiian volcanoes, vents often open at the summit (top) and along the flanks (sides) of the volcano.

Respect Hawai'i's Natural Resources!

People who visit Hawai'i should be careful to not interfere with or harm any of Hawai'i's natural resources. This includes flowing lava. Throwing anything into the lava is disrespectful to many Native Hawaiians and, in some areas, it is against the law.

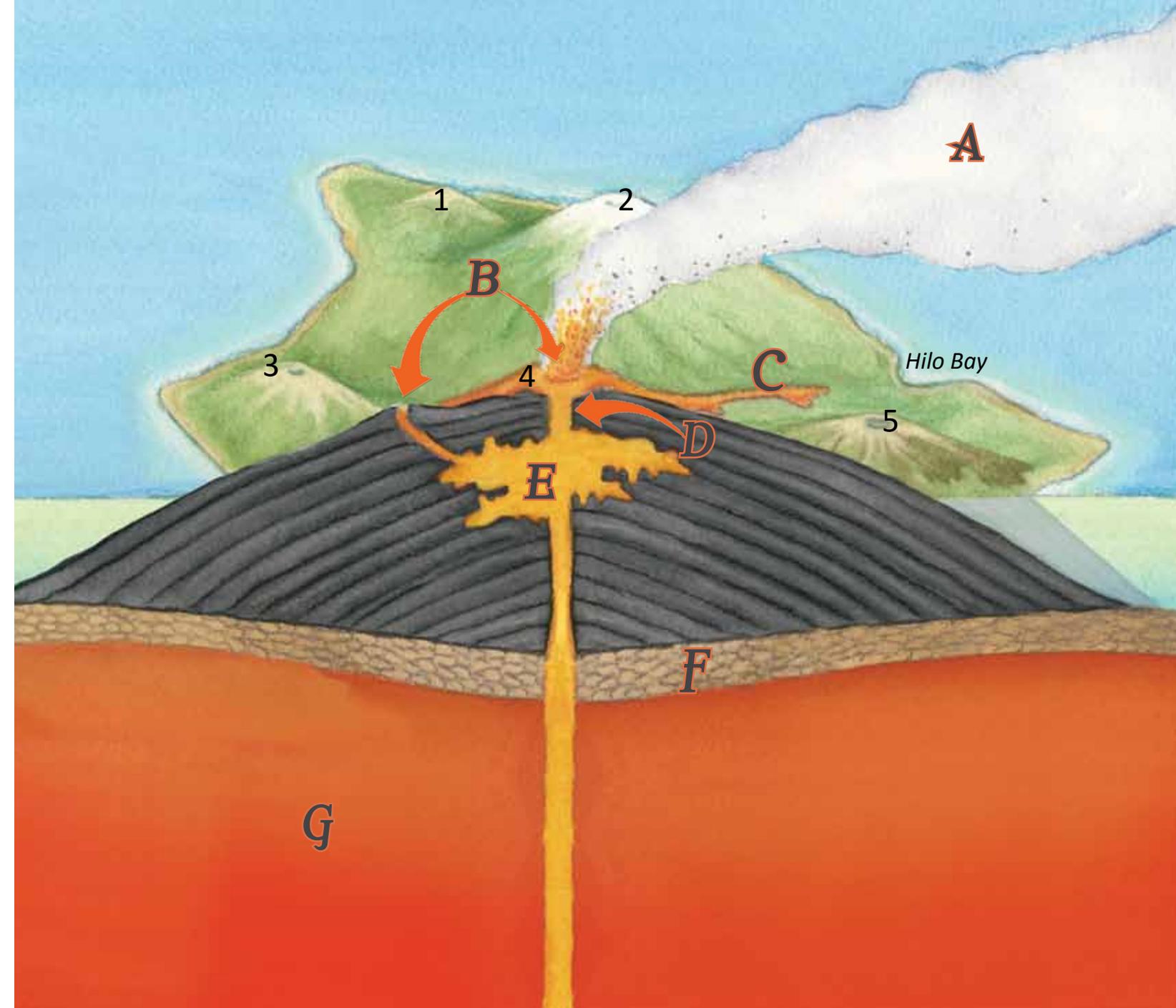
You can share the beauty and wonder of nature with those who come after you! When you visit Hawai'i's volcanoes, or any other natural habitat, respect the environment.



Answers: A-ash. B-vent. C-lava. D-conduit.
E-magma chamber. F-crust. G-mantle.

There are five volcanoes on the Island of Hawai'i. Look for the numbers on the map below to identify each of the five volcanoes.

1. Kohala
2. Mauna Kea
3. Hualālai
4. Mauna Loa
5. Kīlauea



To my three daughters, Kealani, Ka'ipolani and Pua'enalani.—BG

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key phrases: based on a true story, character, earth layers, Hawaii, historical events, map, natural disasters, Pacific, plate tectonics, volcanoes

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