

## The Hawaiian Islands





## Kauai, Hawaii

"The Garden Isle"



Kauai

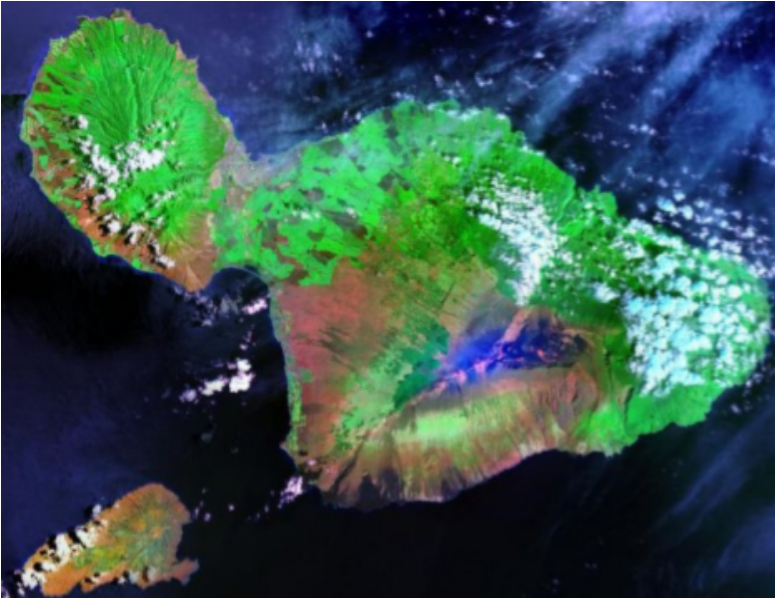


Waimea Canyon

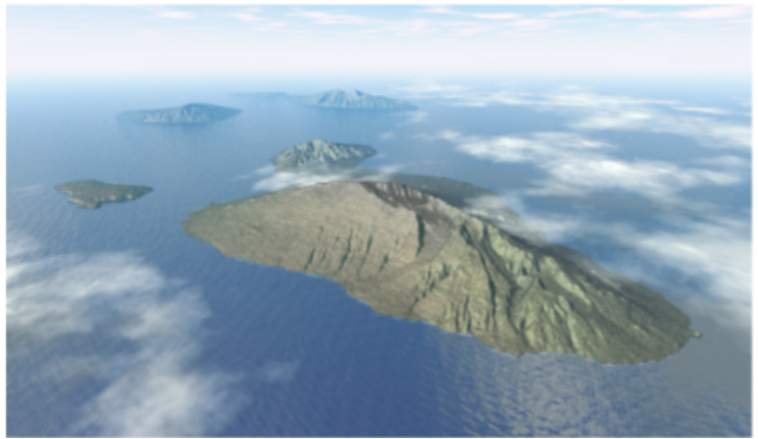


Napali coast



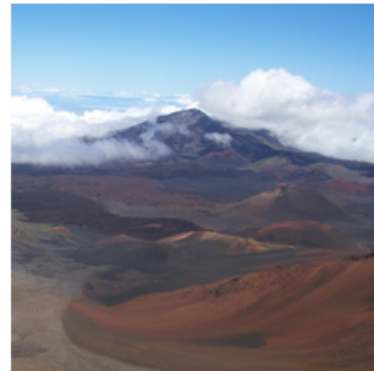


Maui





Maui's Haleakala - dormant volcano



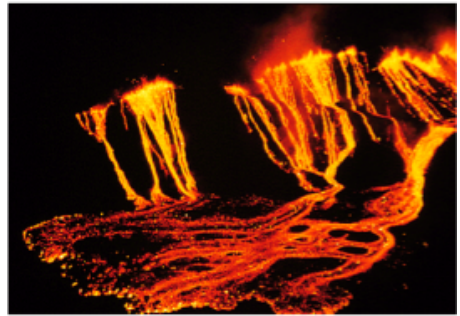
## Big Island - Hawaii



Big Island - Hawaii



Kilauea erupting



Newly created rock on Hawaii



1. What kinds of observations have modern day travelers to the Hawaii Islands made of the different islands?

As one travels from Hawaii to Kauai, the islands become more and more eroded. The plant variety increases from Hawaii to Kauai. In addition, there is an active volcano and four dormant volcanoes on Hawaii, one dormant volcano on Maui while all of the rest of the islands have extinct volcanoes.

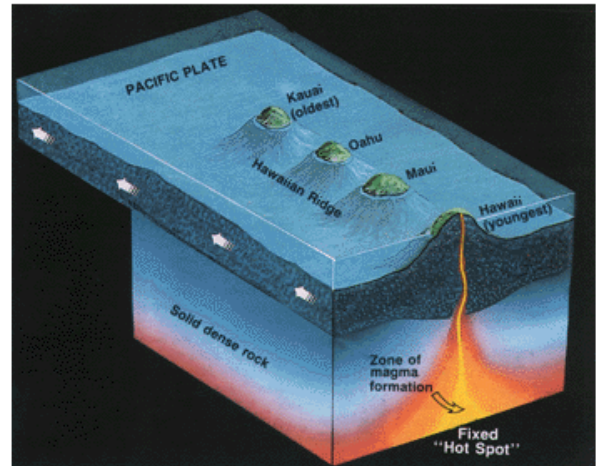
2. How did the Polynesians explain the observations they made long ago?

Pele and Namakaokahai (Nama cow ca hie)

Pele and Nama are sisters who fight constantly. They first lived on Kauai. Pele got tired of the fighting and moved to the next island, Oahu. There she used her magic stick to make a large hole in the ground which became a volcano. Nama also moved to Oahu where she continued to fight with Nama. Pele moved again to Maui where she also made volcanoes with her stick. Nama came again and there was a terrific fight when Nama thought she had killed Pele. Pele survived and moved to Hawaii, again making volcanoes with her stick. She now lives in Kilauea.

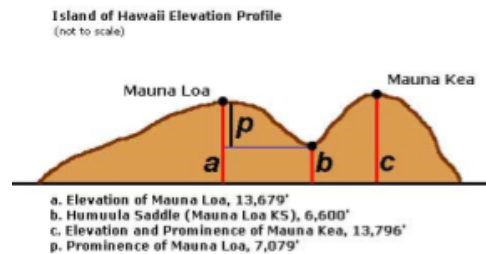
3. What is a hot spot?

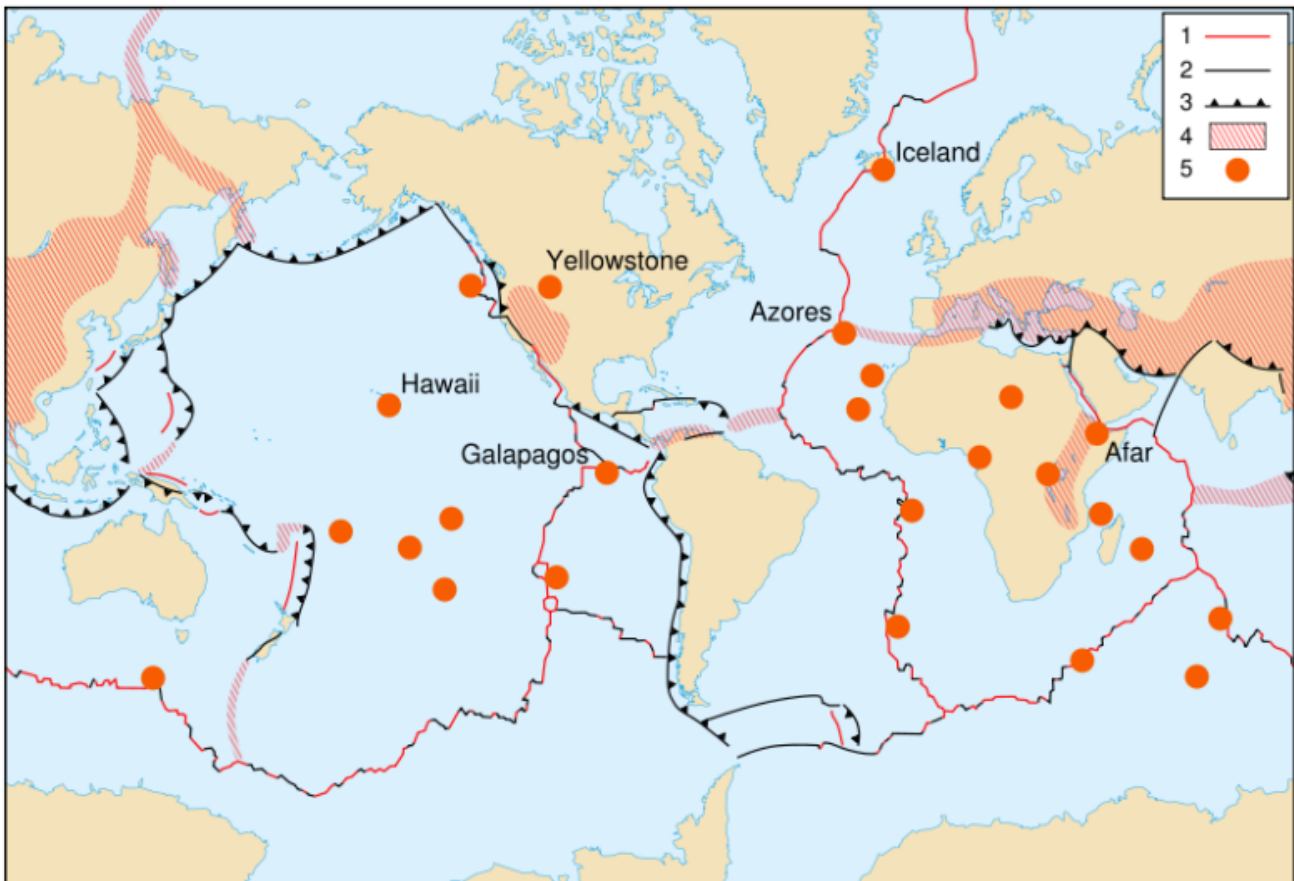
A hot spot is a special place in Earth's mantle where there is a rising column of rock which is hotter than normal. When this rising column of rock reaches the crust, it turns to liquid and the lava flows out on the surface.



Lava from the Hawaiian Islands' hot spot has produced enough lava to cover the entire state of California 2 km deep.

The tallest mountain on Earth, measured from the ocean floor is Mauna Kea.





Earth's hot spots



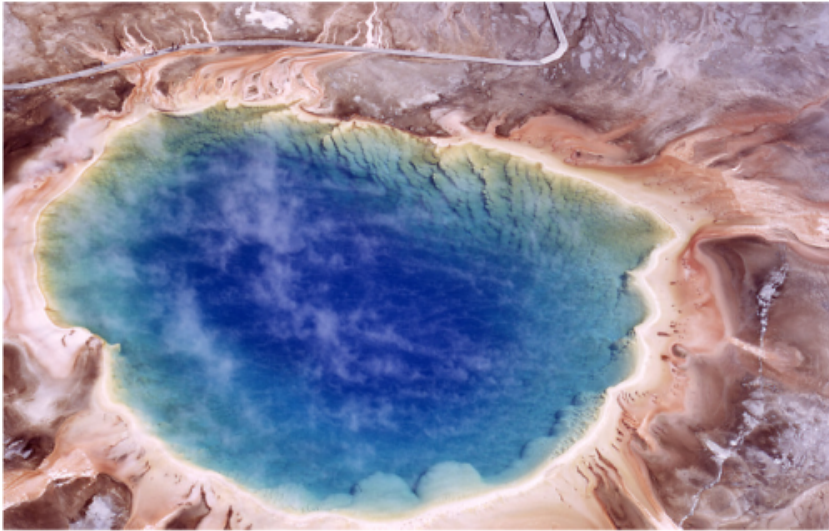
## Geysers



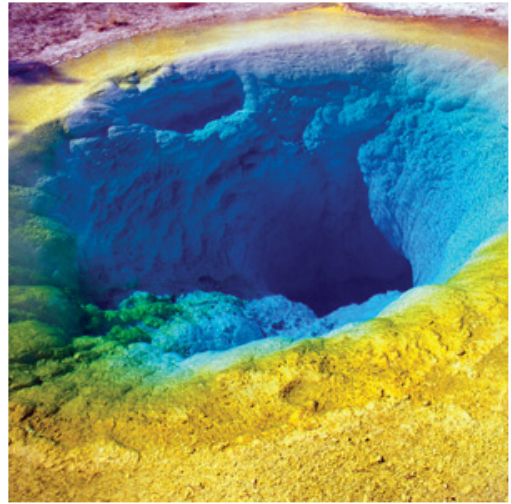
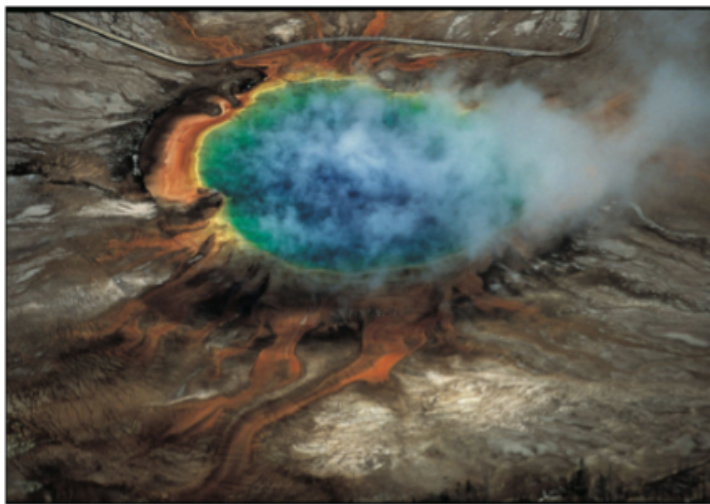
Yellowstone National Park is sitting on a hot spot. Many interesting features are a result of this.



Mammoth Hot Springs

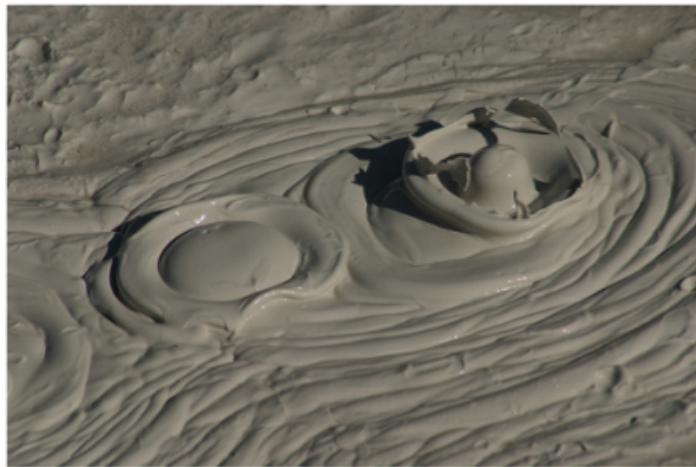


Springs with very hot water





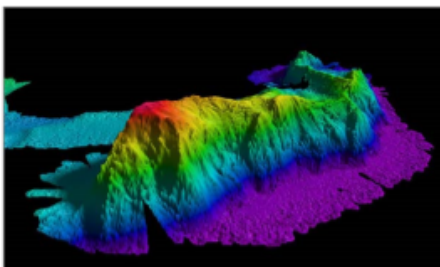
Boiling mud in  
Yellowstone



4. What is the difference between an island and a seamount?

An island sticks up out of the water while a seamount is below the water. Often a seamount is a worn down island.

Seamounts



Island

