

Volcanoes



Eyjafjallajökull volcano, Iceland

Stratovolcanoes

- ▶ Lava properties:
 - Felsic
 - Thick, gassy, viscous
 - ▶ Doesn't flow far -> steep slopes
 - ▶ Vent often plugs



Aleutian Island volcano

- ▶ Eruptions are violent, explosive
 - "Vesuvian style"

[Video](#)



Mount St. Helens, October 2008

Shield Volcanoes

- ▶ Dome-shaped
 - gently sloping sides

- ▶ Lava properties:

- Mafic
- Low viscosity, very fluid, little gas
 - ▶ Spreads thin and travels out far
 - ▶ Vent rarely plugs

- ▶ Eruptions are quiet
 - “Hawaiian style”



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vog

—Halema'uma'u Crater

—Pu'u 'O'o

—ocean entry



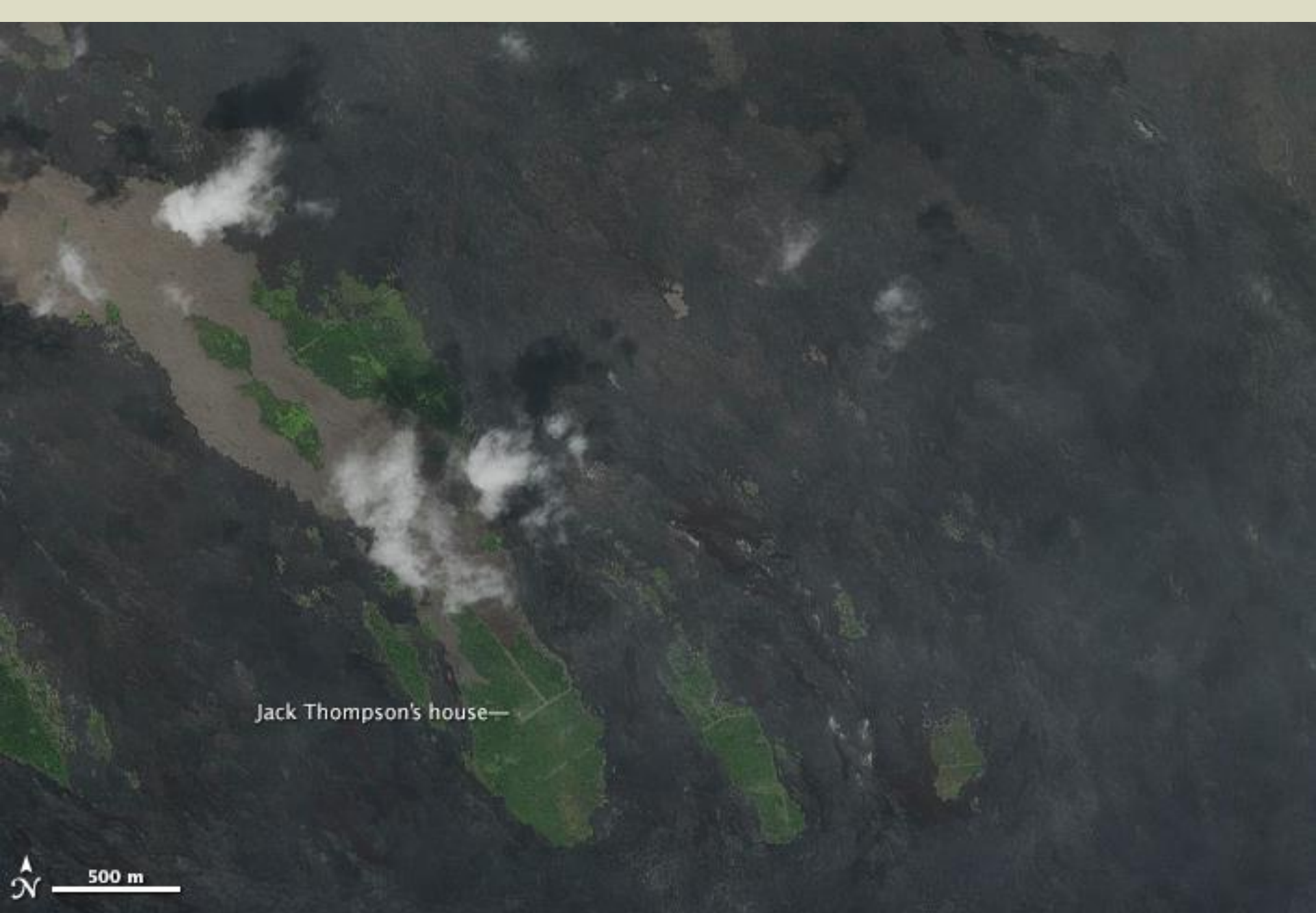
Lava Flow Hazards



Source: <http://www.hawaiihighways.com/photos-Lava-Closures.htm>



Royal Gardens subdivision, Hawaii. March 1977



Jack Thompson's house—



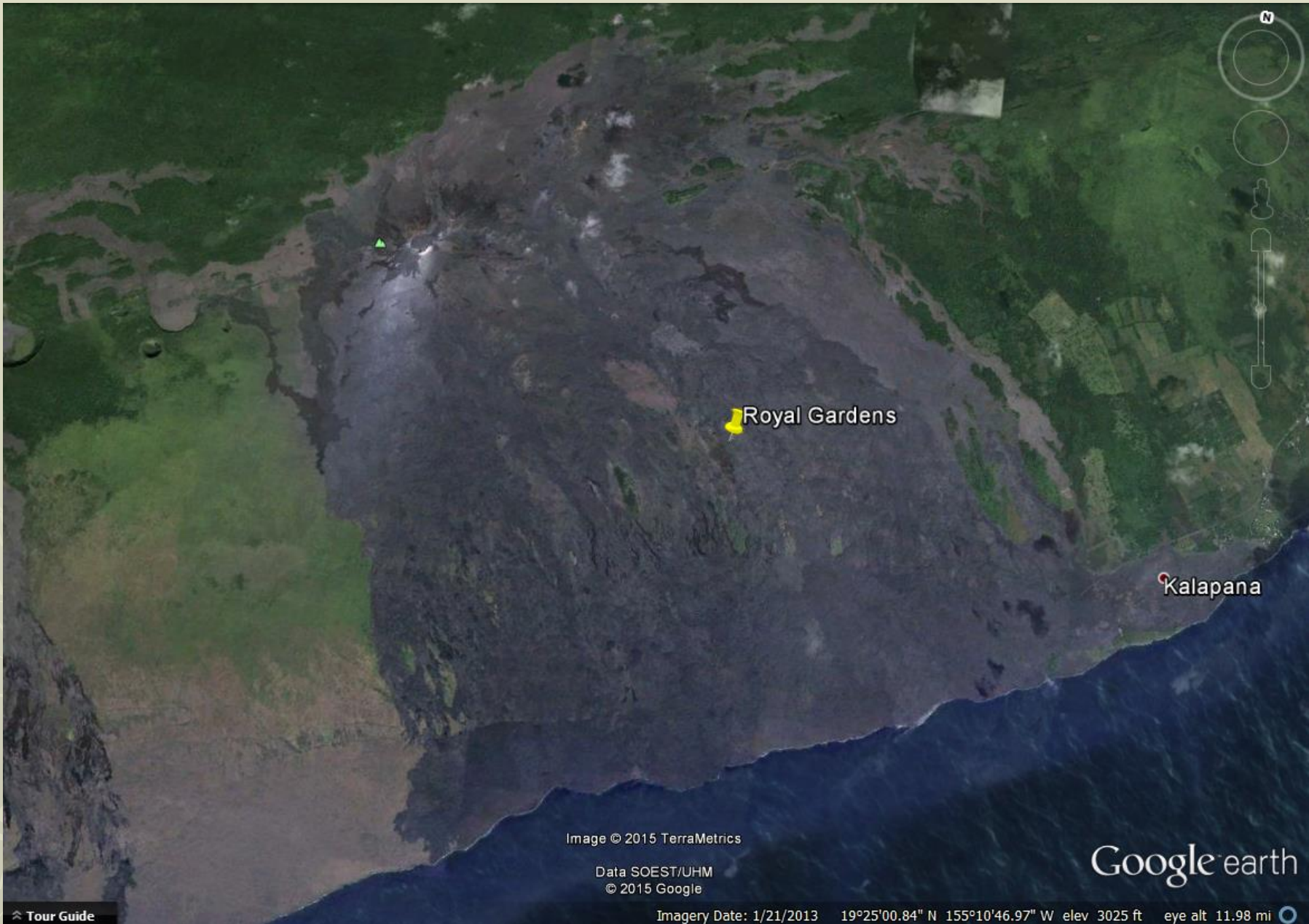
Royal Gardens subdivision, Hawaii. May 2011



Royal Gardens subdivision, Hawaii. March 2, 2012



One week later



Royal Gardens

Kalapana

Image © 2015 TerraMetrics

Data SOEST/UHM
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Google earth

Tour Guide

Imagery Date: 1/21/2013 19°25'00.84" N 155°10'46.97" W elev 3025 ft eye alt 11.98 mi