

WHAT TYPE OF INFORMATION ARE YOU LOOKING FOR?

YOU NEED HIGH SPATIAL RESOLUTION TO ANSWER:
Are there active lava flows or fumaroles in this scene?
What is the nature of these lava flows and fumaroles?

USE Landsat TM (30 meter spatial resolution but temporal resolution is 1 image/16 days), AVIRIS (10 meter spatial resolution but images only during flight missions), MASTER (10 meter spatial resolution but images only during flight missions)
--lesson about how Landsat covers Earth in 16 days paths, rows, link to Landsat TM website
--lesson about swath widths
--discussion about airborne data/campaigns

PLAN DATA-COLLECTION MISSION TO USE LANDSAT TM OR AVIRIS DATA
1) need to know location of area
2) need to know what date and time you need
3) need to have a map of flight lines

YOU NEED HIGH TEMPORAL RESOLUTION TO ANSWER:
Has a new eruption started?
Is an ongoing eruption continuing?
Has there been a change in an ongoing eruption?

USE GOES: 1 image every 15 minutes (but spatial resolution is 4 km/pixel)
--lesson about geosynchronous orbits
--lesson about spatial resolution

PLAN DATA COLLECTION MISSION TO LOOK AT GOES WEBSITE
1) need to know which of the 16 monitoring sites to use
2) need to know lat-long of the volcano to pinpoint it in the scene

