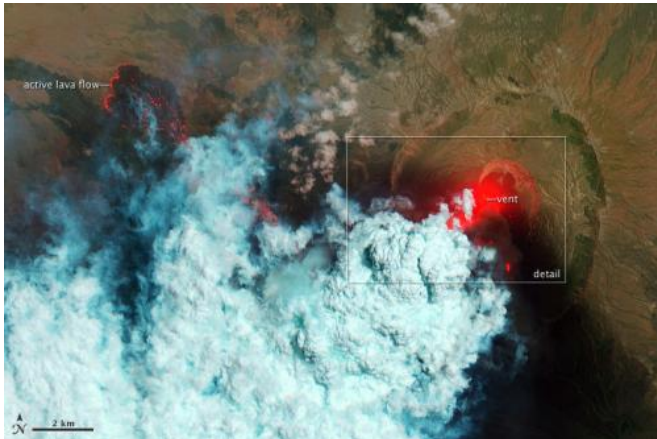


Satellite looks down the eye of erupting Nabro Volcano

28 June 2011, By Nancy Atkinson



This false color satellite image shows active lava flows of the Nabro volcano in Eritrea on June 24, 2011. Credit: the Advanced Land Imager (ALI) aboard the Earth Observing-1 (EO-1) satellite.

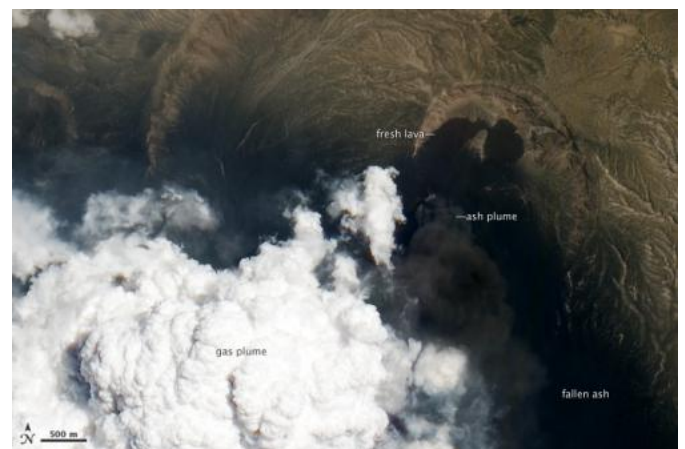
Wow! What an amazing and detailed top-down view of an active volcano! This is the Nabro Volcano, which has been erupting since June 12, 2011. It sits in an isolated region on the border between Eritrea and Ethiopia and satellite remote sensing is currently the only reliable way to monitor the ongoing eruption, according to the [NASA Earth Observatory website](#). The bright red portions of the false-color image (above) indicate hot surfaces. See below for a zoomed-in look. Both images were taken by the Advanced Land Imager (ALI) aboard the Earth Observing-1 (EO-1) satellite.

Robert Simmon of the [NASA](#) Earth Observatory website describes the scenes:

Hot volcanic ash glows above the vent, located in the center of Nabro's caldera. To the west of the vent, portions of an active lava flow (particularly the front of the flow) are also hot. The speckled pattern on upstream portions of the flow are likely due to the cool, hardened crust splitting and exposing

fluid lava as the flow advances. The bulbous blue-white cloud near the vent is likely composed largely of escaping water vapor that condensed as the plume rose and cooled. The wispy, cyan clouds above the lava flow are evidence of degassing from the lava.

The natural-color image (lower) shows a close-up view of the volcanic plume and eruption site. A dark ash plume rises directly above the vent, and a short, inactive (cool) lava flow partially fills the crater to the north. A gas plume, rich in water and sulfur dioxide (which contributes a blue tint to the edges of the plume) obscures the upper reaches of the active lava flow. Black ash covers the landscape south and west of Nabro.



This natural-color image shows a close-up view of the volcanic plume and eruption site of the Nabro volcano. Credit: the Advanced Land Imager (ALI) aboard the Earth Observing-1 (EO-1) satellite

Limited reports from the region say that at least 3,500 people and up to 9,000 that have been effected by the eruption, with at least 7 deaths caused by the erupting [volcano](#). The ash [plume](#) has also disrupted flights in the region.

Source: [Universe Today](#)

APA citation: Satellite looks down the eye of erupting Nabro Volcano (2011, June 28) retrieved 5 December 2022 from <https://phys.org/news/2011-06-satellite-eye-erupting-nabro-volcano.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.