

Mount Lewotobi

Source: IE

Recently, Mount Lewotobi Laki-Laki volcano, located on the Indonesian island of Flores, erupted.

- This eruption follows **heightened volcanic activity** in Indonesia, with another recent eruption from Mount Merapi in West Sumatra.
- Indonesia has around **120 active volcanoes** and **Mt Lewotobi** is part of the <u>Pacific Ring of Fire</u>, an area known for **frequent seismic and** <u>volcanic activity</u>.
- The Pacific Ring of Fire (Circum-Pacific Belt) is a path along the Pacific Ocean characterised by active volcanoes and frequent earthquakes.
 - It is largely a result of <u>Tectonic Plates</u> where massive **Pacific Plate** interacts with lessdense plates surrounding it like <u>Nazca Plate</u>. Juan de Fuca Plate.



Pacific Ring of Fire

aka the Circum-Pacific Belt

CHARACTERISTICS

- Path along Pacific Ocean characterised by active volcanoes and frequent earthquake
- Majority of Earth's volcanic eruptions (75%)/earthquakes (90%) occur here

The next most seismically active region (5-6% of earthquakes) is the Alpide belt (Mediterranean region - eastward through Turkey, Iran, and northern India)

CAUSE OF FORMATION

 Plate Tectonics- Pacific Plate interacts with less-dense plates

GEOGRAPHICAL STRETCH

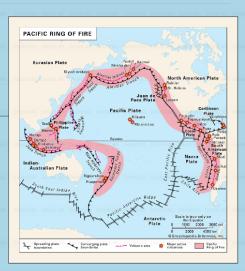
 ~40,000 Kms; Western coast of S & N America to Eastern coast of Asia past New Zealand to Northern Coast of Antarctica

IMPORTANT COUNTRIES IN RoF

 Chile, Ecuador, Peru, Mexico, US, Canada, Russia, Japan, Philippines, Australia, Indonesia, New Zealand, and Antarctica

ACTIVE VOLCANOES IN RoF

- Mauna Loa (Hawai)- world's largest active volcano
- Mount Tambora (Indonesia)- largest volcanic eruption (1815)
- Mount Fuji- Japan's tallest



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Most of the active volcanoes on the RoF are found on its western edge, from Russia to New Zealand



MAJOR EARTHQUAKES IN RoF

- Valdivia Earthquake of Chile 1960- strongest recorded earthquake
- Northern Sumatra Earthquake 2004- occurred in Indian Ocean





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