

# Mount Lewotobi Laki Laki

#### Source: IE

Mount Lewotobi Laki Laki, one of Indonesia's most active volcanoes erupted, spewing ash up to 18 km high and covering nearby villages with volcanic debris.

- Mount Lewotobi is located on the Indonesian island of Flores. It lies along the <u>Pacific "Ring</u> of Fire," known for intense seismic activity.
  - The volcano is part of a twin-peaked system called Lewotobi, meaning "husband and wife." It consists of the Lewotobi Lakilaki (man) and Lewotobi Perempuan (woman) stratovolcanoes, whose summit craters are located less than 2 km apart on Flores Island.
  - The Ring of Fire, or Circum-Pacific Belt, is a 40,000 km zone around the Pacific Ocean marked by intense seismic and volcanic activity. It hosts 75% of Earth's volcanoes (over 450) and 90% of earthquakes.
- This eruption ranks among Indonesia's largest since 2010, when **Mount Merapi** erupted, killing over 350 people and displacing hundreds of thousands.
  - Merapi, located in Yogyakarta, is Indonesia's highly active and known for frequent eruptions and deadly pyroclastic flows (fast-moving avalanches of hot gas and volcanic debris) posing major hazards over the past two decades.



# **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**

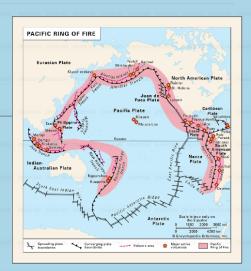
~40,000 Kms; Western coast of S & N
America to Eastern coast of Asia past
New Zealand to Northern Coast of
Antarctica

#### 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



The Vision

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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