

## Continental Mantle Earthquakes

February 12, 2026 • vajiramandravi.com



### Continental Mantle Earthquakes Latest News

Recently the Stanford researchers have produced the first global map of a rare type of earthquake i. e Continental mantle earthquakes.

### About Continental Mantle Earthquakes

- These are seismic events which **originate in the mantle beneath continents.**
- **Origin:** Unlike most earthquakes, which originate in the Earth's cold, brittle crust at depths of around **10 to 29 kilometres**, mantle **earthquakes** often occur more than 80 km below the **Mohorovičić discontinuity** (boundary between the crust and the mantle).
- **Impact:** They are **too deep to cause much shaking** or danger at Earth's surface.
- **Occurrence:** They occur worldwide but are regionally clustered, particularly beneath the **Himalayas in southern Asia and the Bering Strait between Asia and North America.**
- **Significance:** The new map will help scientists learn more **about the mechanics** of mantle earthquakes.

## What is Mohorovičić Discontinuity?

- It is the boundary lying between **the crust and the mantle** of the earth across which seismic waves change velocities.
- It is located **approximately 24 miles below the earth's surface** and 6 miles below the oceanic floor, a distance which varies from place to place.
- The discontinuity was named after **Croatian seismologist** and geophysicist **Andrija Mohorovicic** who pioneered its discovery in 1909.

Source: **DTE**

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