

Earthquake

Causes ,Types, Consequences and World Distribution

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Earthquake

Causes ,Types, Consequences and World Distribution

- **Sudden tremors/Sudden Shaking of earthcrust**
- **Epicenter**
- **Focus**
- **Seismic waves**
- **Seismograph**
- **Richter Scale**

Causes of earthquake

- **Folding and faulting**
- **Volcanic eruption**
- **Chemical Explosion**
- **Imbalance due to Erosion and Deposition
work of External erosive agents**
- **Reservoir**
- **Testing of atomic Explosives**
- **Exploration of Natural oil and gas**

Types of Earthquake Waves

Primary Waves: - Velocity 812km/seconds

Huge Velocity in solid layer

Secondary Waves: - Just like light wave

Cannot travel through liquid layer

46km/seconds

Surface Waves:- Parallel to earth surface

More destructive,

3km/seconds

Consequences

- **Loss Of Human Life And Property**
- **Depression And Elevation Of Land**
- **Change In River Course**
- **Land Sliding**
- **Formation Of Valley , Rift Valley And Reservoir**
- **Fire**
- **Formation Of Springs**
- **Collapsing Of Buildings**
- **Cracking Of Land**
- **Formation Of Tsunami**
- **Geysers**
- **Disconnection of light and telephone wires**
- **Epidemics**
- **Disturbances in transport and communication**

Advantages/Benefits

- **Formation of waterfalls**
- **Formation of reservoirs**
- **Formation of creeks and development of harbors**
- **Rise of minerals in upper layer**
- **Fertile land available**

How to Protect from Earthquake

- **One should go away from buildings**
- **Under the table/frame on empty space**
- **Switch of the lights /gas**
- **Temporary houses**

World distribution

Pacific belt:

Chilee Japan
China, Peru Brazil,
Rassia, USA, Canada
West Indies

Mediterranean Belt: **North Africa,**
Spain, Itali
North Pakistan
North India
Myanmar
Indochina

Earthquake







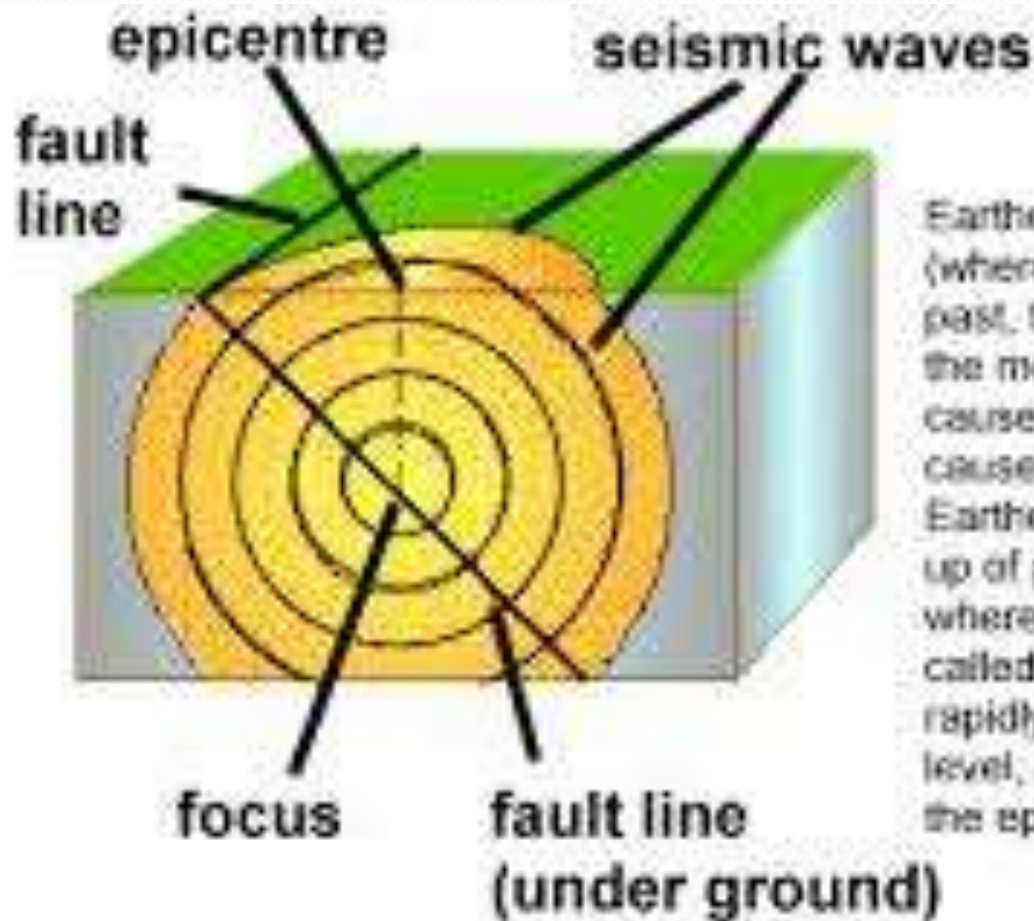












Earthquakes

Earthquakes occur along plate margins (where plates meet). When plates move past, towards or away from each other the movement is not smooth. Friction causes the plates to get stuck. This causes pressure to build up. Earthquakes occur when this build up of pressure is released. The point where the earthquake starts is called the focus. Energy waves race rapidly from this point. The point at ground level, directly above the focus, is called the epicentre.





Earthquake prone area in India



Thank You
&
Have a Nice time

