

Seismology

→ The Scientific Study of earthquakes is called Seismology. A person specialized in the field of Seismology is called Seismologist.

The device used to record the shaking of ground during the earthquake is called seismograph or seismometer.

Seismic Waves

→ The waves radiating by the earth due to earthquake are called seismic wave.

Types of seismic waves.

- Internal wave
- Surface wave

Internal wave

→ The seismic wave traveling through the interior of the earth is called internal wave or body wave.

There are two types of Internal wave

- P-waves (Primary waves)
- S-waves (Secondary waves)

a. P-Waves: The seismic waves hitting the ground first and foremost during earthquake are called P-waves. They are the fastest of all seismic waves.

→ When an earthquake occurs, this wave is the first wave to arrive the earth surface so they are called primary waves.

b. S-waves: The seismic waves reaching the earth surface after the primary waves are called S-waves.

→ These waves are the second-fastest seismic waves and the second type to be detected once an earthquake has occurred so they are called secondary waves.

Characteristics of P-waves

- It is faster kind of seismic wave.
- It can travel through solid and liquid.

Characteristics of S-waves

- It is slower than p-waves.
- It can travel through only solid.

Surface waves

→ The seismic wave traveling through only the earth's surface is called surface wave. They are slower than body waves, travelling to 2 to 3 km/sec.

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