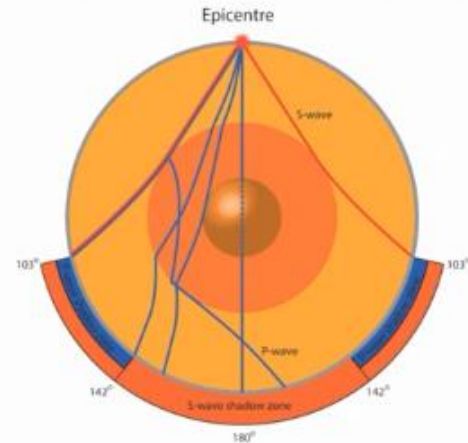
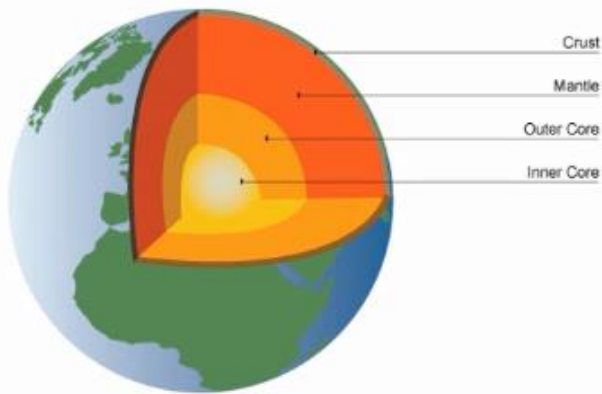
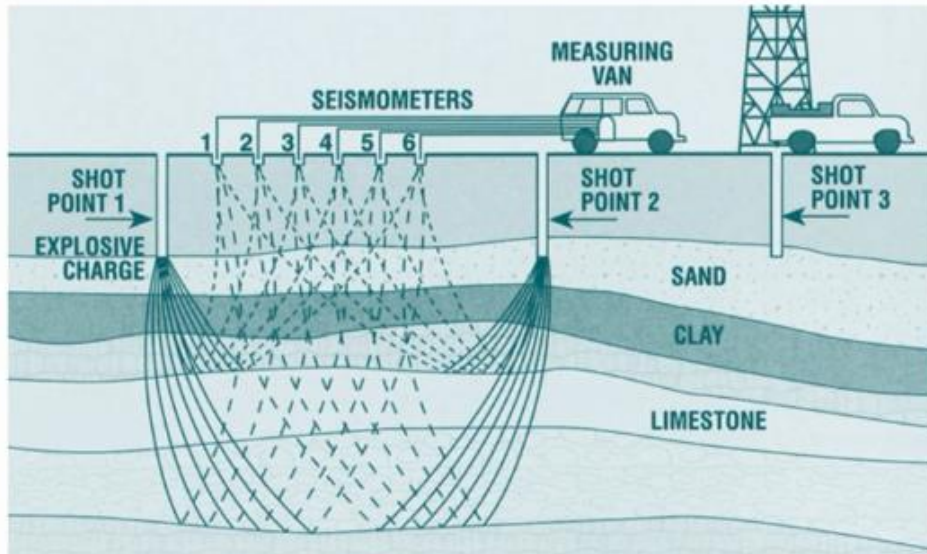


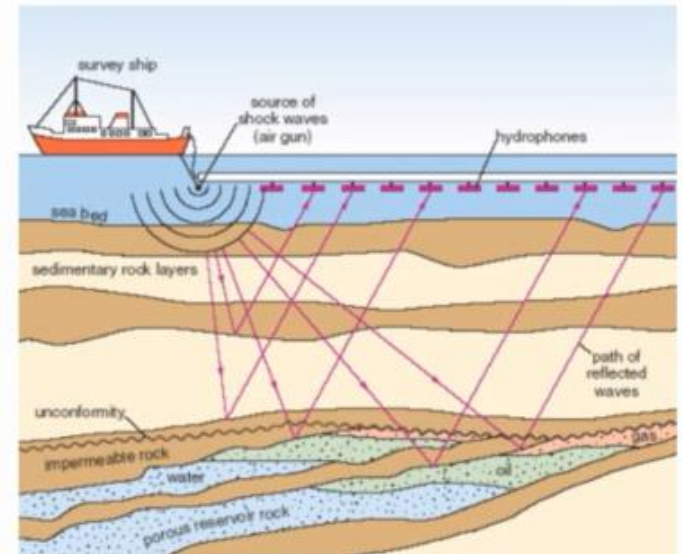
# INTERNAL STRUCTURE OF EARTH



Seismic waves are used to differentiate the boundaries between layers beneath the surface of the Earth



In Land

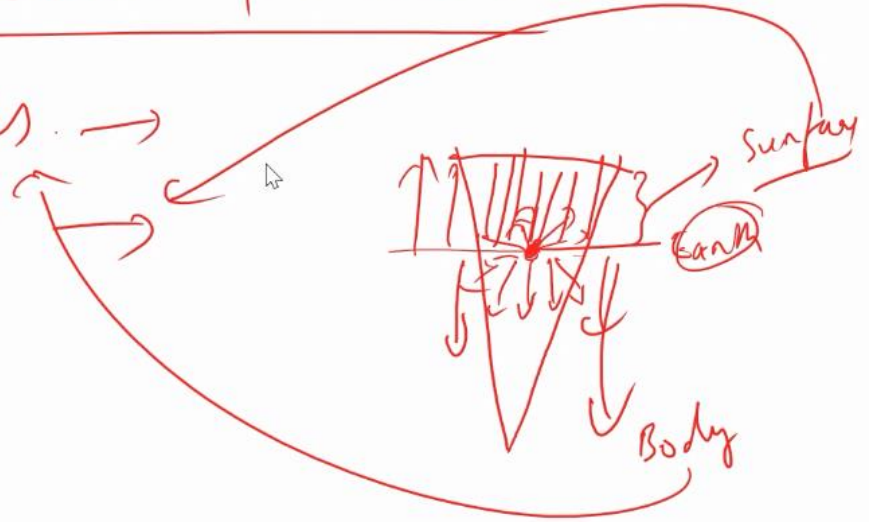


In Sea

## 4. Seismic waves: / Earthquake

→ Two types of waves are produced:

- (1) Body waves →
- (2) Surface " →

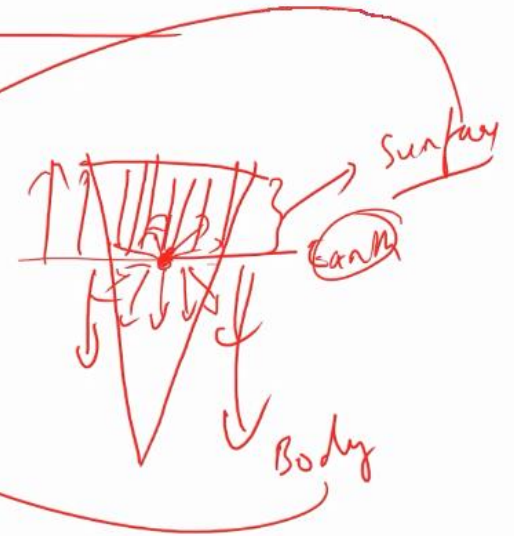


→ Two types of waves are produced.

① Body waves →

② Surface " →

① Body waves :- (i) Primary waves (P)  
(ii) Secondary waves (S)



① Body waves: - (i) Primary waves (P)  
(ii) Secondary waves (S)



(a) Transverse waves.

(b) Through only solid (not liquid)

(c) Short wavelength & high frequency  
(intensity is high)

(a) Longitudinal waves.  
(b) can penetrate through any medium  
(solid & liquid)  
(c) Short wavelength & high frequency  
(intensity is high)

(2) ~~secondary~~ Surface waves. (L - waves)  
↓ Love.

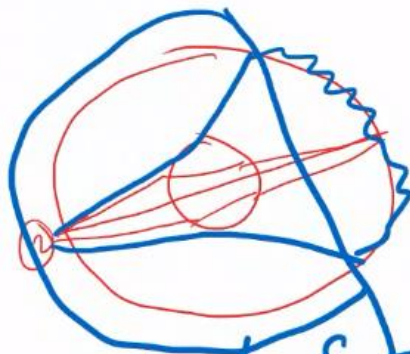
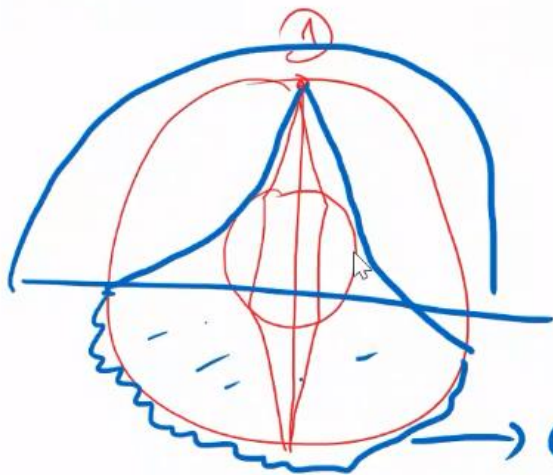
(a) Transverse waves  
(b) through only solids  
(c) longer wavelength & low frequency.







- (a) Transverse waves
- (b) through only solids
- (c) longer wavelength & low frequency.



out of reach of S waves

