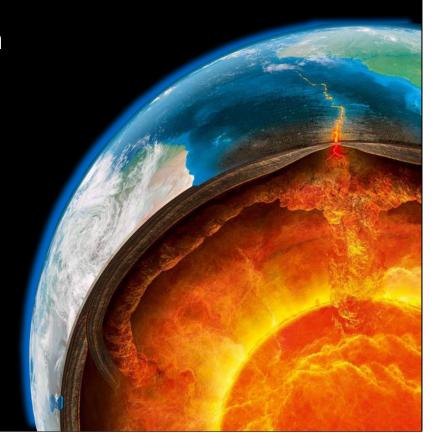
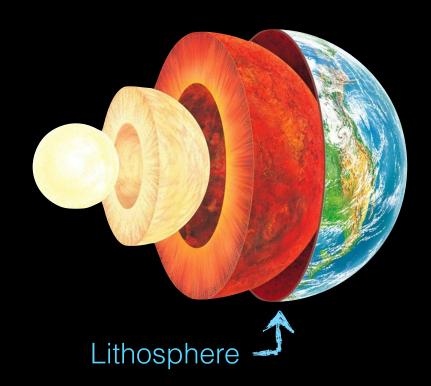
What are the different parts of Earth's interior and how did we come to define their characteristics?



- Earth's interior structures are known through the study of seismic waves
- Seismic waves refract, reflect, change velocity and are absorbed depending on the material they are transmitted through



• Lithosphere - the rigid outer part of the Earth consisting of the crust and rigid mantle



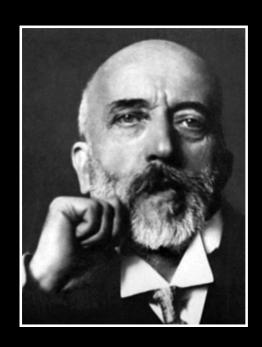




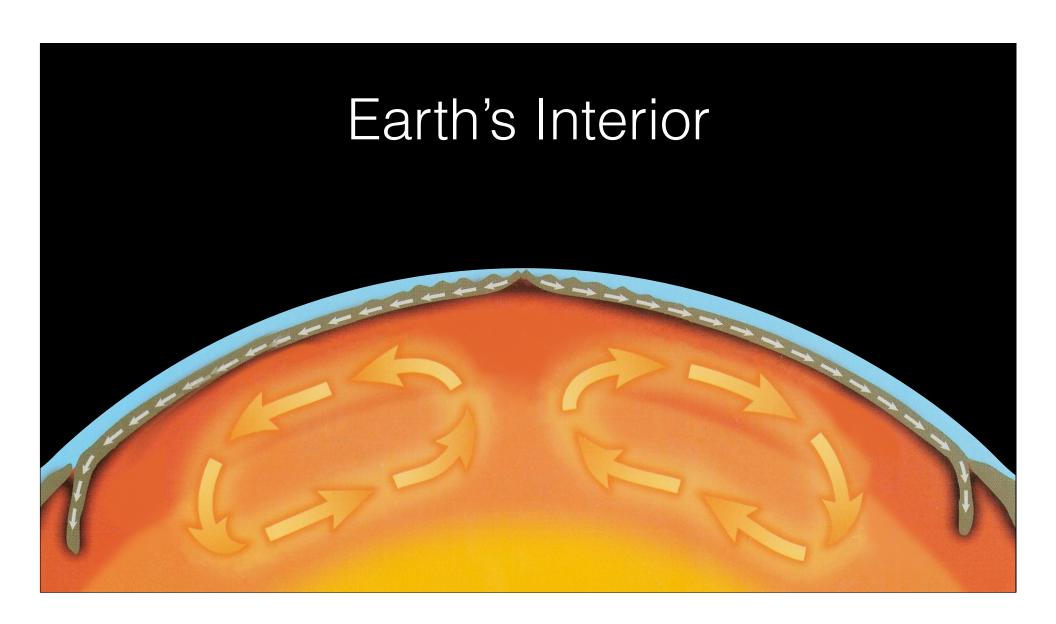
Lithosphere

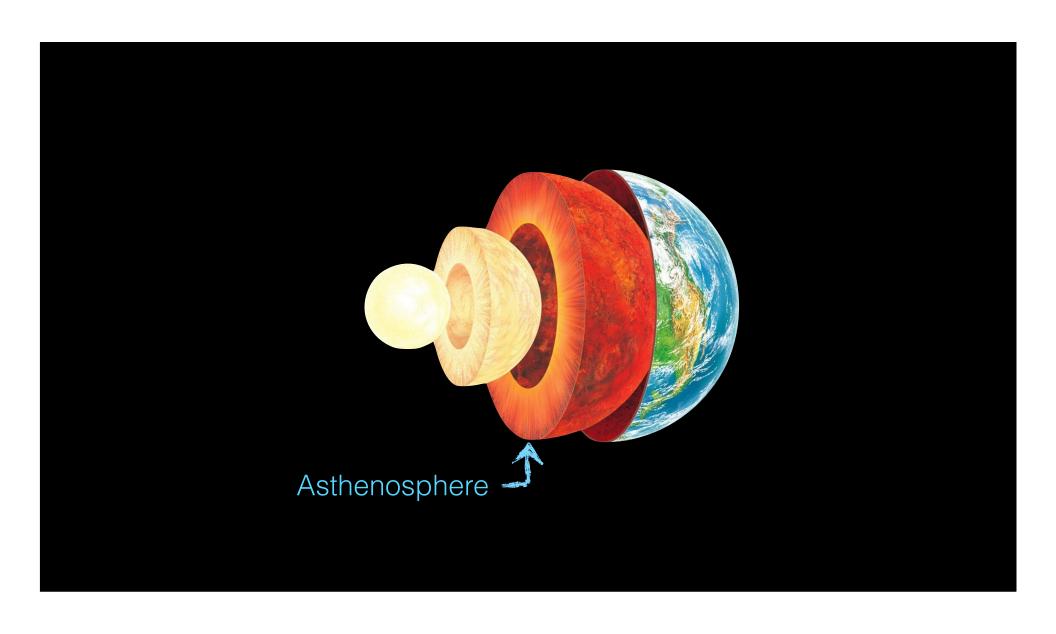
- Granitic Continental Crust thickest part of the crust [100 km] that has a density of 2.7 g/cm³
- Basaltic Oceanic Crust thinnest part of the crust [2-3 km] that has a density of 3.0 g/cm³

- Moho thin interface separating the lithosphere from the asthenosphere
 - Andrija Mohorovicic' discovered it the boundary when seismic waves changed velocity

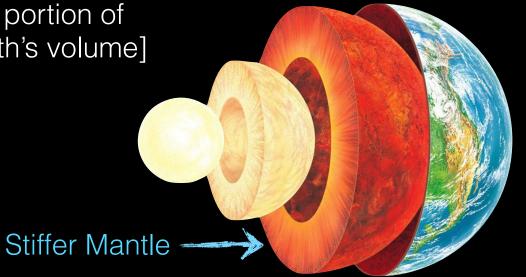


- Asthenosphere [plastic mantle] upper potion of the mantle that is composed of partially melted rock
 - Convection currents within the asthenosphere cause the continents to move
 - Seismic waves decrease in velocity





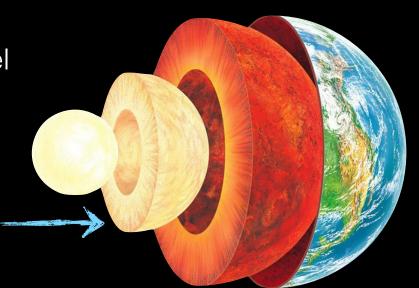
• Stiffer Mantle - the thickest portion of Earth's interior [80% of Earth's volume] that is solid



Outer Core

 Outer Core - liquid layer of Earth's interior composed of iron and nickel

> Seismic waves are absorbed or refraction



 Inner Core - solid layer of Earth's interior composed of iron and nickel

• Seismic waves increase in velocity

