

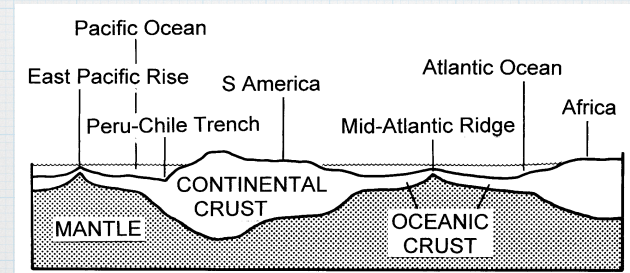
The Crust

- * Uppermost layer; broken into "plates"
- * Lowest: density, pressure, temperature
- * Varies in thickness from 5 to 30 km



Types of Crust

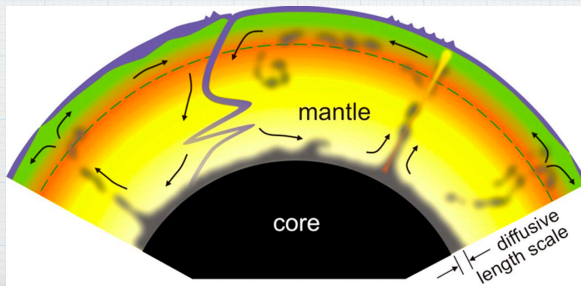
- * Continental: thicker, less dense, made of granite
- * Oceanic: thinner, more dense, made of basalt



The Mantle

M FOR MIDDLE

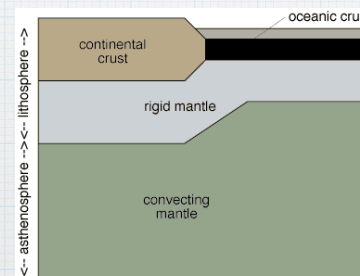
- * Thickest layer
- * Hot, dense rock that flows like a fluid and has CONVECTION



The mantle is further broken down into...

Lithosphere

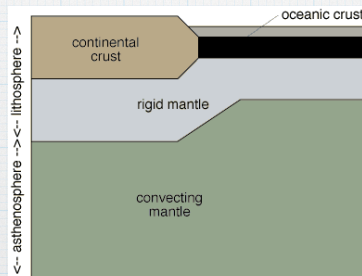
- * Uppermost (rigid) mantle and crust
- * Brittle and not plastic-like



The mantle is further broken down into...

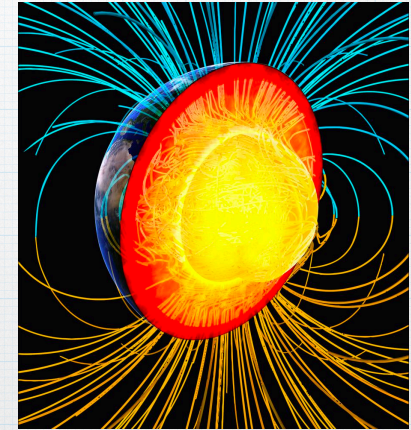
Asthenosphere

- * Below lithosphere; flows like asphalt
- * Plastic-like layer that moves the plates



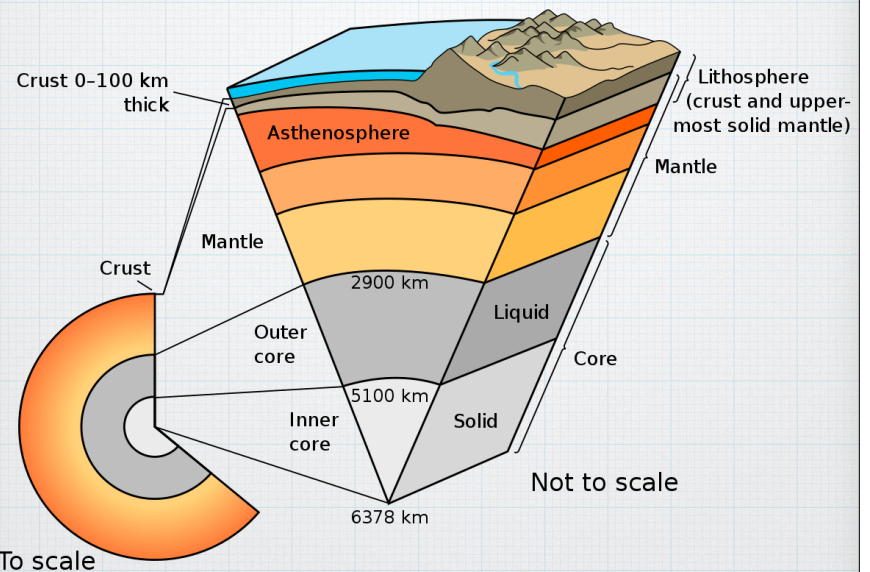
Outer Core

- * Liquid iron & nickel
- * Generates Earth's magnetic field
- * Slowly cooling off as it transfers heat to the mantle



Inner Core

- * Highest density, pressure, temperature
- * Solid ball of iron & nickel
- * A third of Earth's mass is in the cores
- * Over 10,000 degrees F



How do we know?

