

EARTH'S STRUCTURE AND SYSTEMS

Study guide, definitions, notes

EARTH

- Our experience with Earth is limited to its surface.
- Earth is characterized by:
 - a. internally generated magnetic field
 - b. layered interior
 - c. gaseous envelope

CHARACTERISTICS ABOUT EARTH'S STRUCTURE

- Earth has dipole magnetic fields that deflects solar wind and protects earth's surface from solar radiation.
- Earth has a stratified atmosphere (nitrogen, oxygen)
- Earth is made up of minerals, glass, fluids, and volatiles.
- Earth has three layers:
 - a. thin silicate crust
 - b. thick iron and magnesium silicate mantle
 - c. thick metallic core
- Earth can be divided into a rigid outer lithosphere and a plastic or ductile asthenosphere.

EARTH'S MAGNETIC FIELD

- Earth's magnetic field is produced by geodynamo which flows in the liquid iron outer core of the Earth.
- It grows stronger as separating distance increases.

VAN ALLEN BELTS

- These are two belts in the inner magnetic field where high energy cosmic rays are trapped.
- These belts protect us from solar radiation.

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Edward J. Tarbuck



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