

Earth Science



What is Earth Science?

Fields of science dealing with planet Earth:

Geography, Geology, Geophysics, Hydrology, Glaciology, Meteorology, Atmospheric Physics, Ecology, etc.

What does Earth Science study?

How the Earth system works, and how it evolved to its current state.

What is *Earth system*?

Air <mark>Magnetosphere</mark>

Atmosphere

Lithosphere

Land

What do we have on Earth?

Water

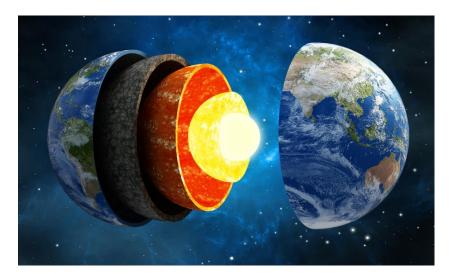
Hydrosphere

Biosphere and Anthroposphere Life

Physical Spheres of the Earth

1. PLANET EARTH

- Shape and size
- Formation
- Internal structure



2. LITHOSPHERE: The Solid Surface

Types and age
Tectonic processes
Volcanic processes



Physical Spheres of the Earth

3. HYDROSPHERE: The Water

- Physical state of water
- > Water cycle
- > Ocean circulation, tides
- ➤ Glaciers, sea ice

4. ATMOSPHERE: The Air

- Layers
- Air masses and wind
- Weather and storms





What do we see on Earth changing?



What's happening on Earth now?

Canary Islands volcano erupting



West Coast Wildfires

What's happening on Earth now?

Hurricane Sam in the Atlantic



Strong Earthquake in Alaska

Where is Earth?

