

# **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

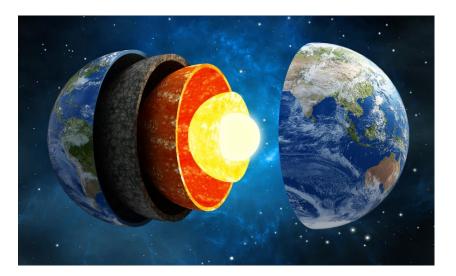
Hydrosphere

## 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?

