

# **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's *Earth system*?



Lithosphere

Hydrosphere

**Atmosphere** 

Magnetosphere

**Biosphere** 

Anthroposphere

#### **1. LITHOSPHERE: The Solid Earth**

- Internal structure
   Tectonic processes
- Volcanic processes



#### **2. HYDROSPHERE: The Water**

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

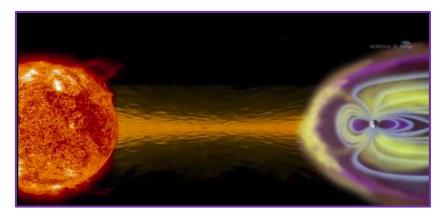


- 3. ATMOSPHERE: The Air
  - Layers
  - > Air masses and wind
  - Weather and storms



#### 4. MAGNETOSPHERE: Magnetic Field

Structure
Solar wind
Aurora Borealis



- 5. BIOSPHERE: All Living Matter
  - EcosystemBiomes



- 6. ANTHROPOSPHERE: Homo Sapiens Impact
  - Ecology
     Pollution
     Deforestation



\*this course does not cover these two\*

### What is Earth?

### What is Earth made of?

### How does Earth work?

### What do we see on Earth?



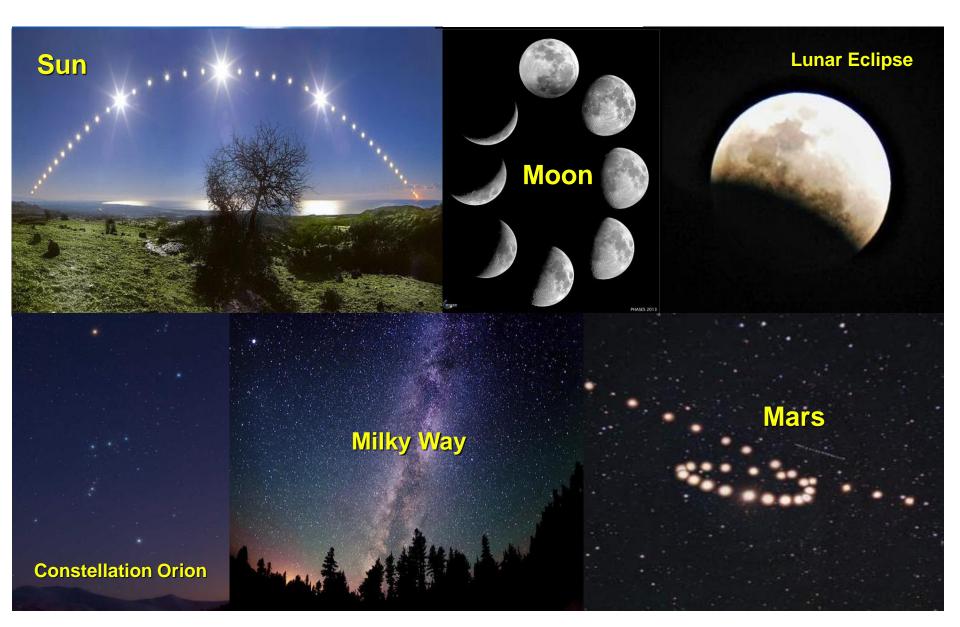
## What's happening on Earth now?







## What do we see from Earth?



### Where is Earth?