



# 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*?



**Atmosphere**



Air

**Magnetosphere**



**Hydrosphere**

Water

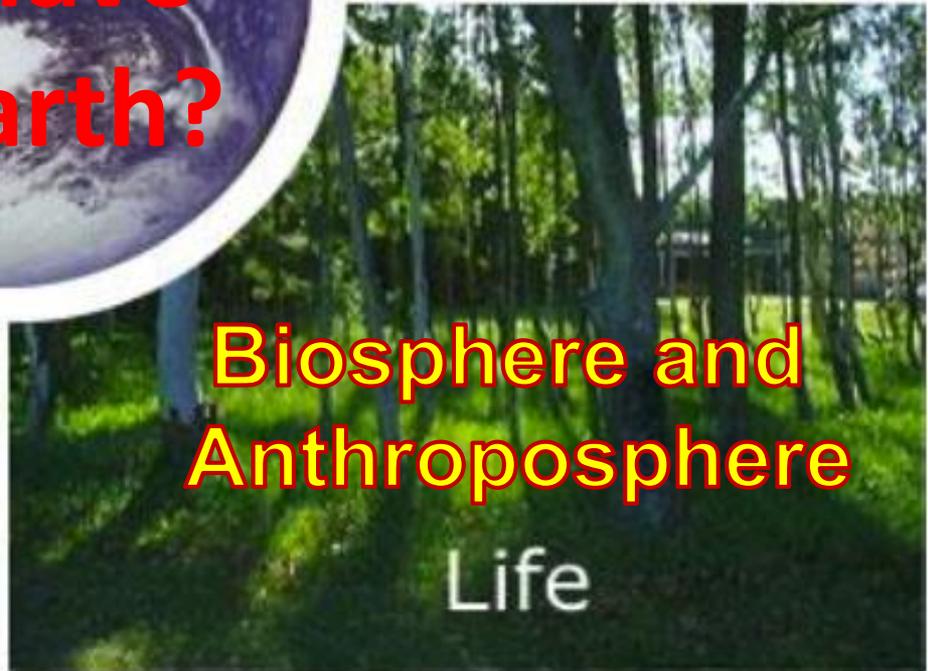


**What do we have on Earth?**



**Lithosphere**

Land



**Biosphere and Anthroposphere**

Life

# Physical Spheres of the Earth

## 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



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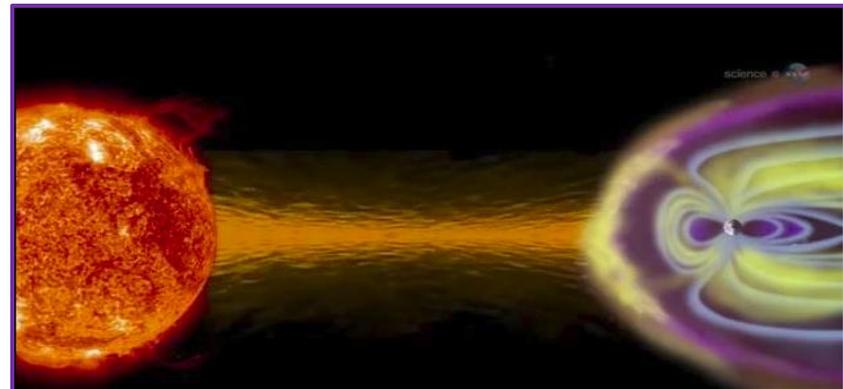
## 3. ATMOSPHERE: The Air

- Layers
- Air masses and wind
- Weather and storms



## 4. MAGNETOSPHERE: Magnetic Field

- Structure
- Solar wind
- Aurora Borealis



# What do we see on Earth changing?



# What's happening on Earth now?

Tropical Cyclones in the Atlantic

