

# **Earth Science**



#### What is Earth Science?

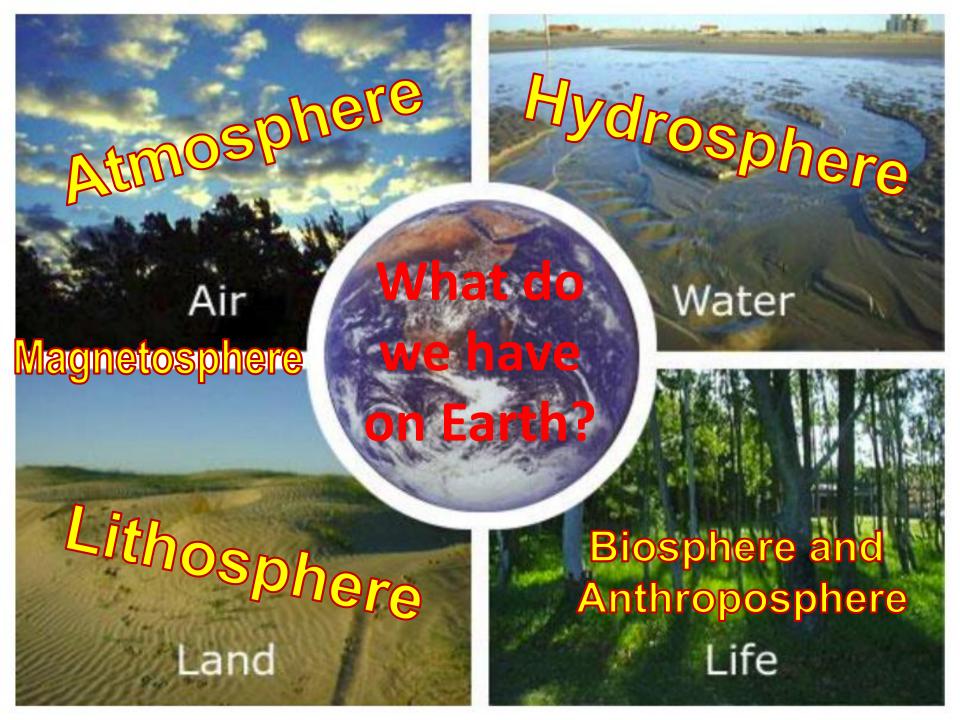
#### Fields of science dealing with planet Earth:

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.

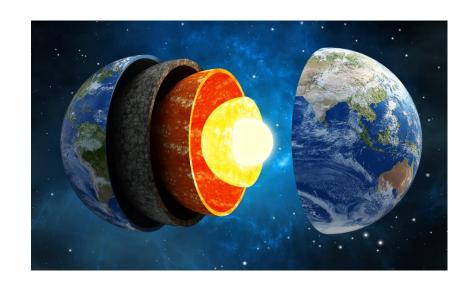
### What is *Earth system*?



### 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?

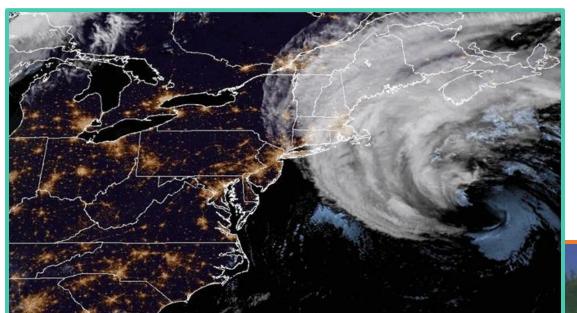








### What's happening on Earth now?



Hurricane Lee,
now a posttropical cyclone,
tracks north along
the East Coast

6 moderate earthquakes rocked the Earth yesterday (no strong ones)

