



# 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*?

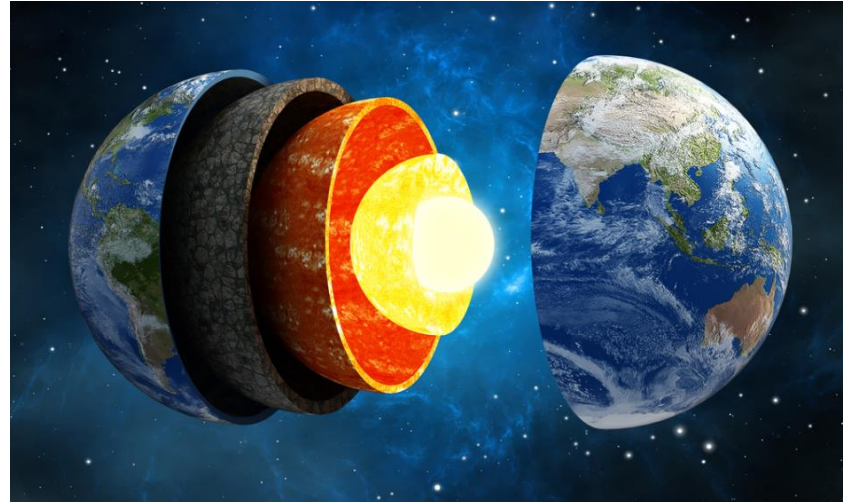




# Physical Spheres of the Earth

## 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?



Despite the peak of the **Atlantic Hurricane season**, *the tropics are QUIET with no storm currently developing...*

**1 strong and 3 moderate earthquakes**  
rocked the Earth  
yesterday (and over  
a 100 week ones!)



**Question to think about  
until the next class:**

**Where is Earth?**