

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

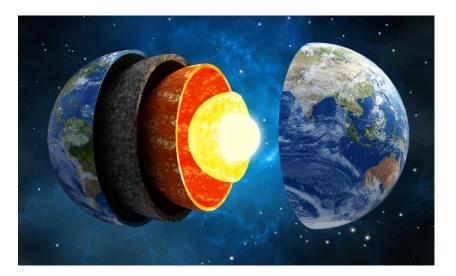
Hydrosphere

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



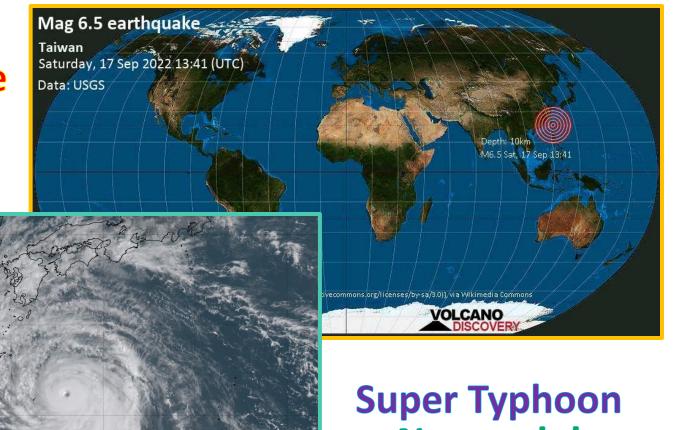


What do we see on Earth changing?



What's happening on Earth now?

Major earthquake rocks Taiwan



Nanmadol approaches Japan

What's happening on Earth now?



New Zealand



2022-08

Submarine eruption led to form a new island!