

# The Biosphere, atmosphere, hydrosphere and lithosphere

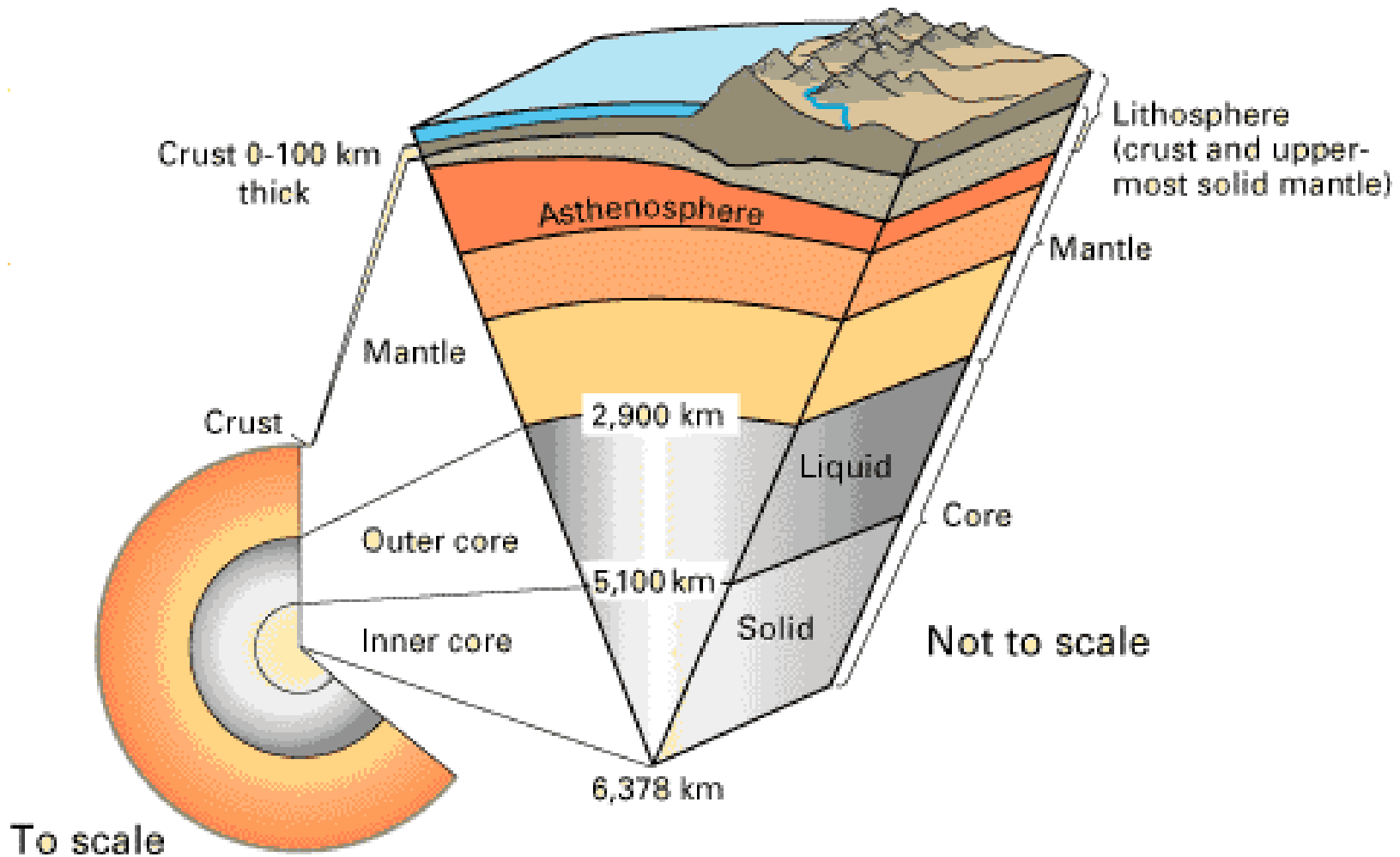


# Earth



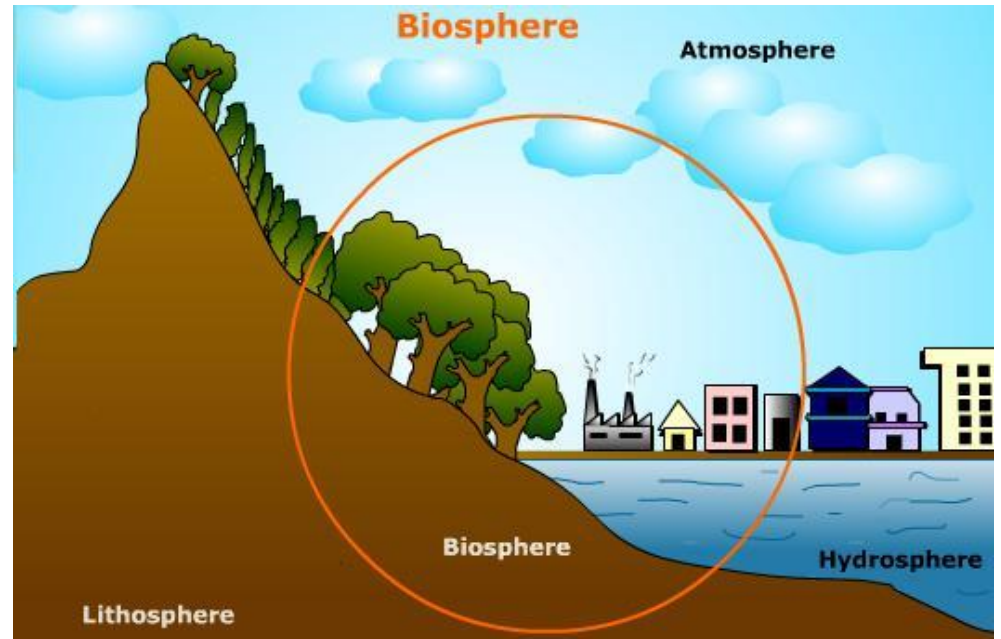
- Roughly 4.5 billion years old
- Third planet orbiting around the sun
- Only planet in our solar system to have surface liquid water
- Home to the only known life in the universe

# Internal Structure of Earth



# Biosphere

- Regions in which life can exist
- Made up of 3 parts
- Atmosphere (air)
- Hydrosphere (water)
- Lithosphere (rock and sediments)



# Atmosphere

- The gases that envelope and surround the Earth make up our atmosphere
- Protects us from UV rays
- Balances the global temperature on the Earth
- Made up of various gases (Nitrogen, oxygen, water vapour, Carbon dioxide, Ozone, etc...)



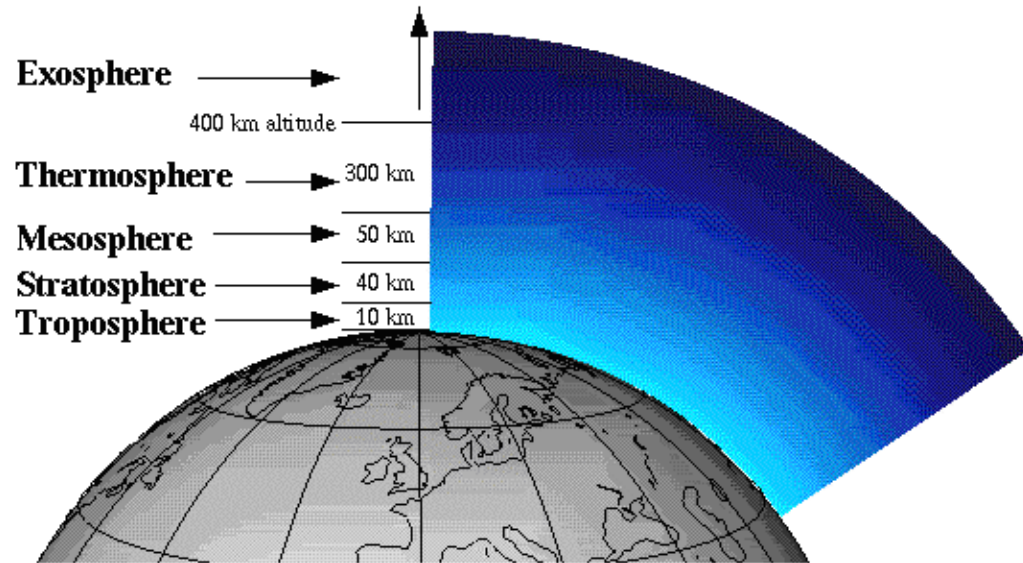
# Layers of the atmosphere

Troposphere : contains 80% of all air

Stratosphere: absorbs UV rays

Mesosphere: Protects Earth from meteorites

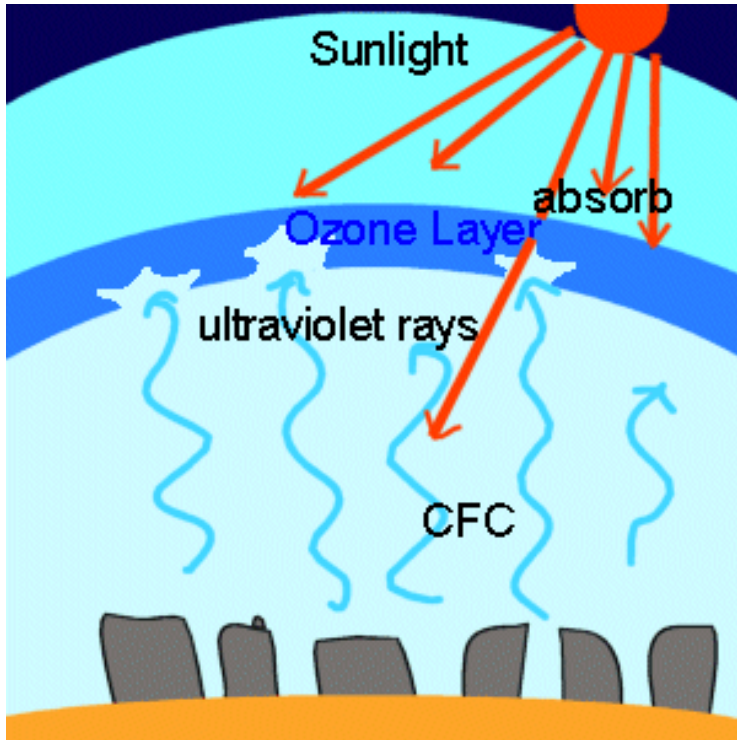
Thermosphere: Most meteorites burn up here.



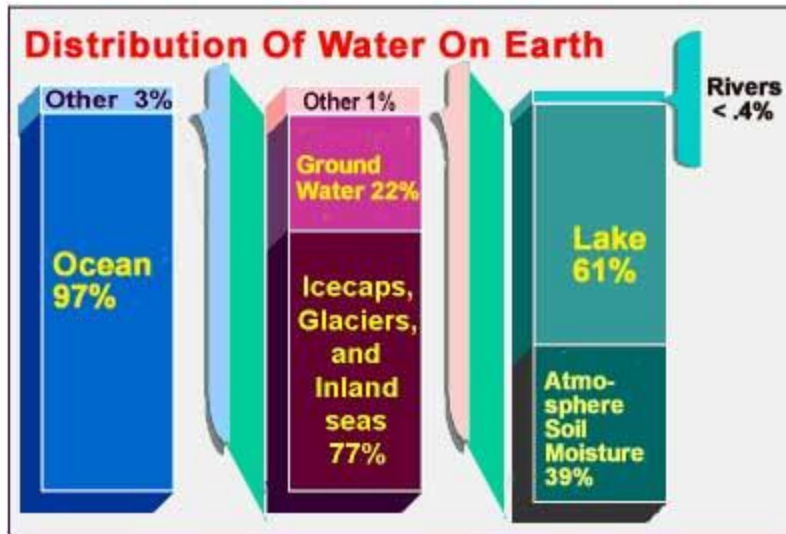
# Ozone

Protects us from UV rays

Destroyed by CFCs  
(chlorofluorocarbons)  
and aerosol products.

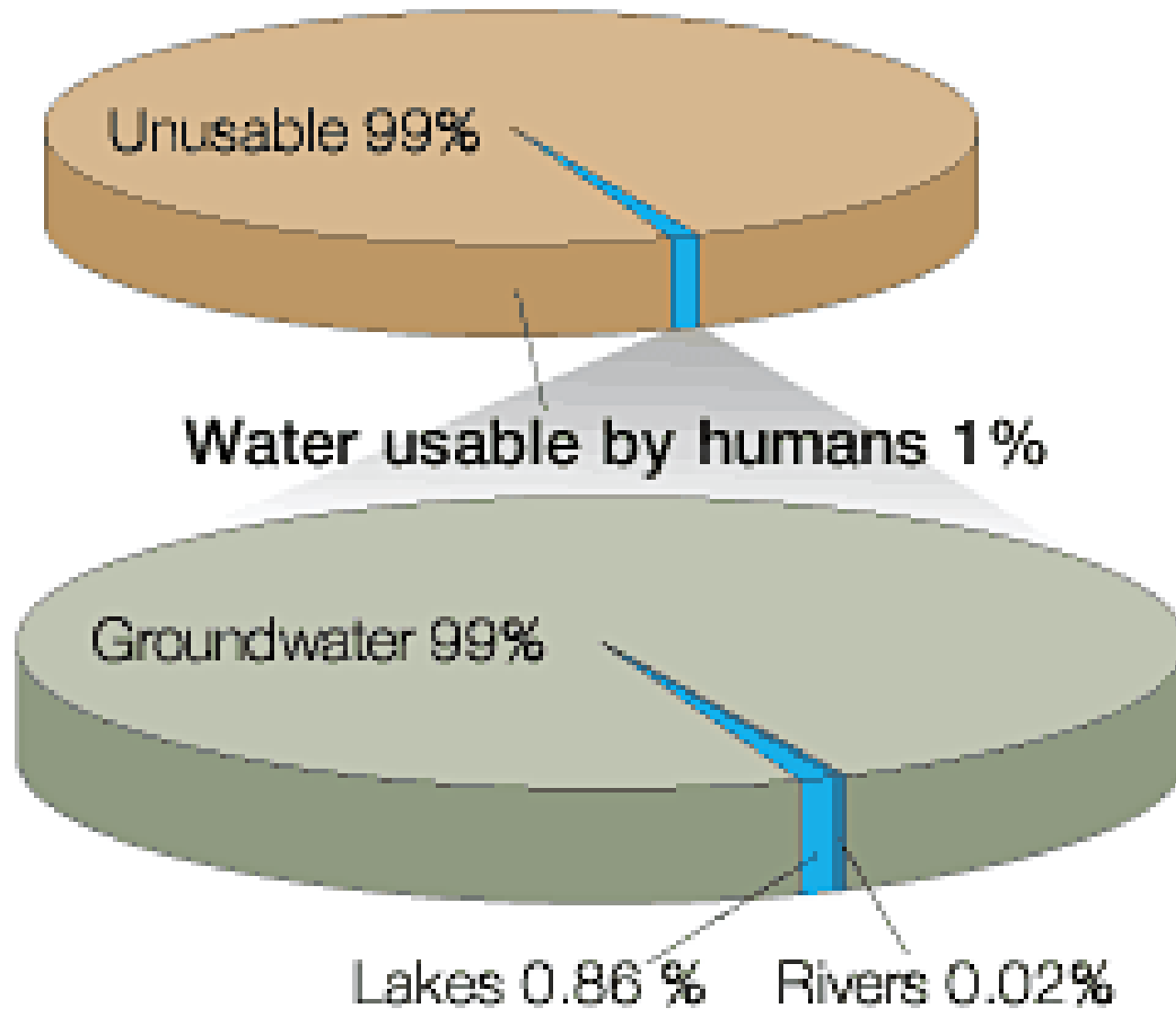


# Hydrosphere





# All water on Earth



# Fresh Water



# Fresh Water

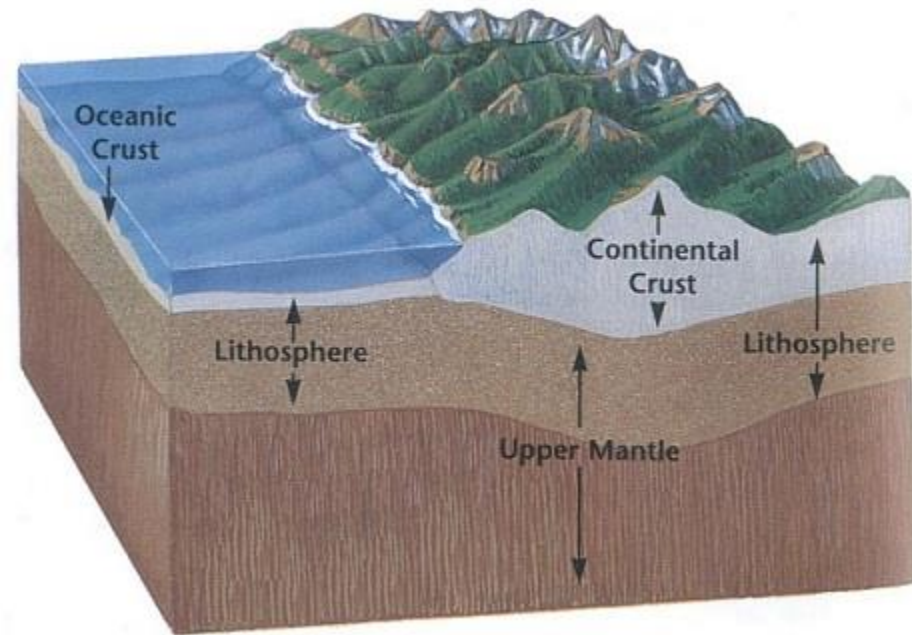
- Lakes, ponds, rivers, and streams are freshwater habitats. So too are swamps, bogs, and marshes.
- It amounts to precious little water, less than half a percent of the world's water supply.
- Yet it is essential to a wide variety of life on earth.
- The distribution of fresh water is uneven globally. Four countries hold nearly 50% of all the fresh water on Earth.

# Salt water



- The water of the seas and oceans is salty because of the vast quantity of mineral salts dissolved in it.

# Lithosphere



- Comprises the Earth's crust and part of the upper mantle

# Rocks and minerals

- A rock is a heterogeneous blend of various grains (each grain is a mineral)
- A mineral is a pure, natural and inorganic substance



# Formation of rocks

