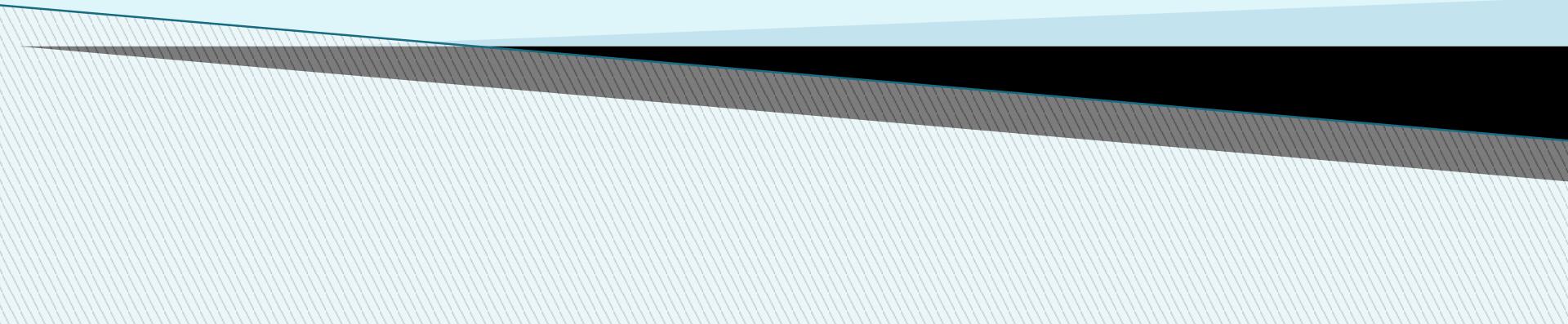


# HYDROSPHERE

Dr Indranil Ghosh



# Definition

All the waters on the earth's surface, such as lakes and seas, and sometimes including water over the earth's surface, such as clouds.

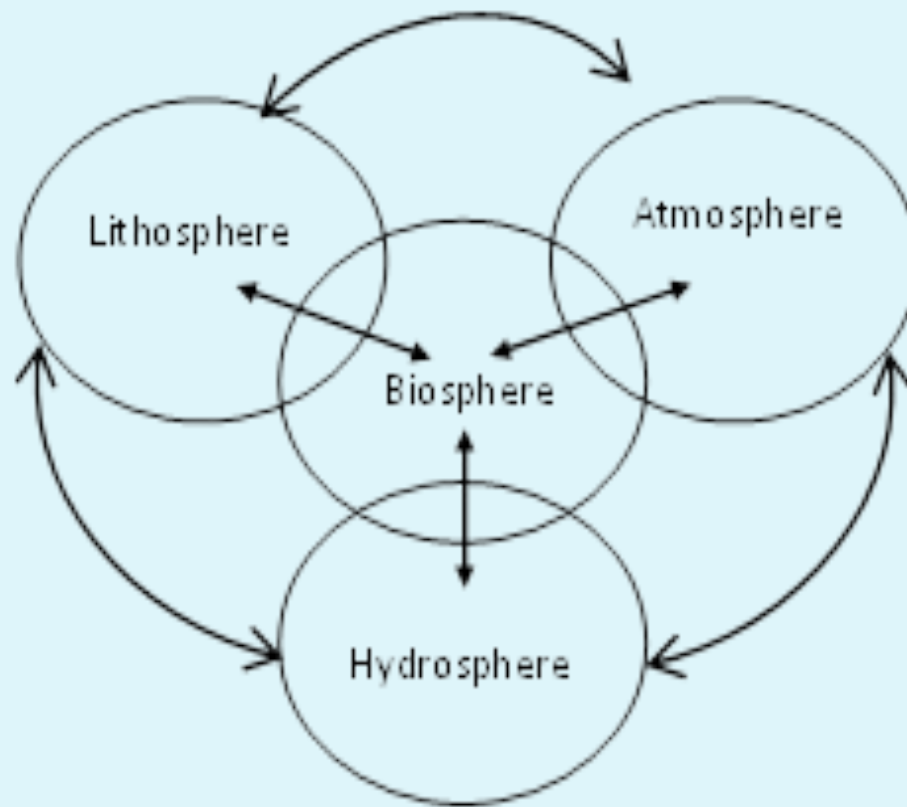


Fig. Interaction of hydrosphere with other spheres

# Hydrology

- ▣ **Hydrology** (from Greek: ὕδωρ, hudōr, "water"; and λόγος, logos, "knowledge") is the study of the movement, distribution and quality of water throughout the Earth and thus addresses both the hydrologic cycle and water resources.

# Natural Water Distribution

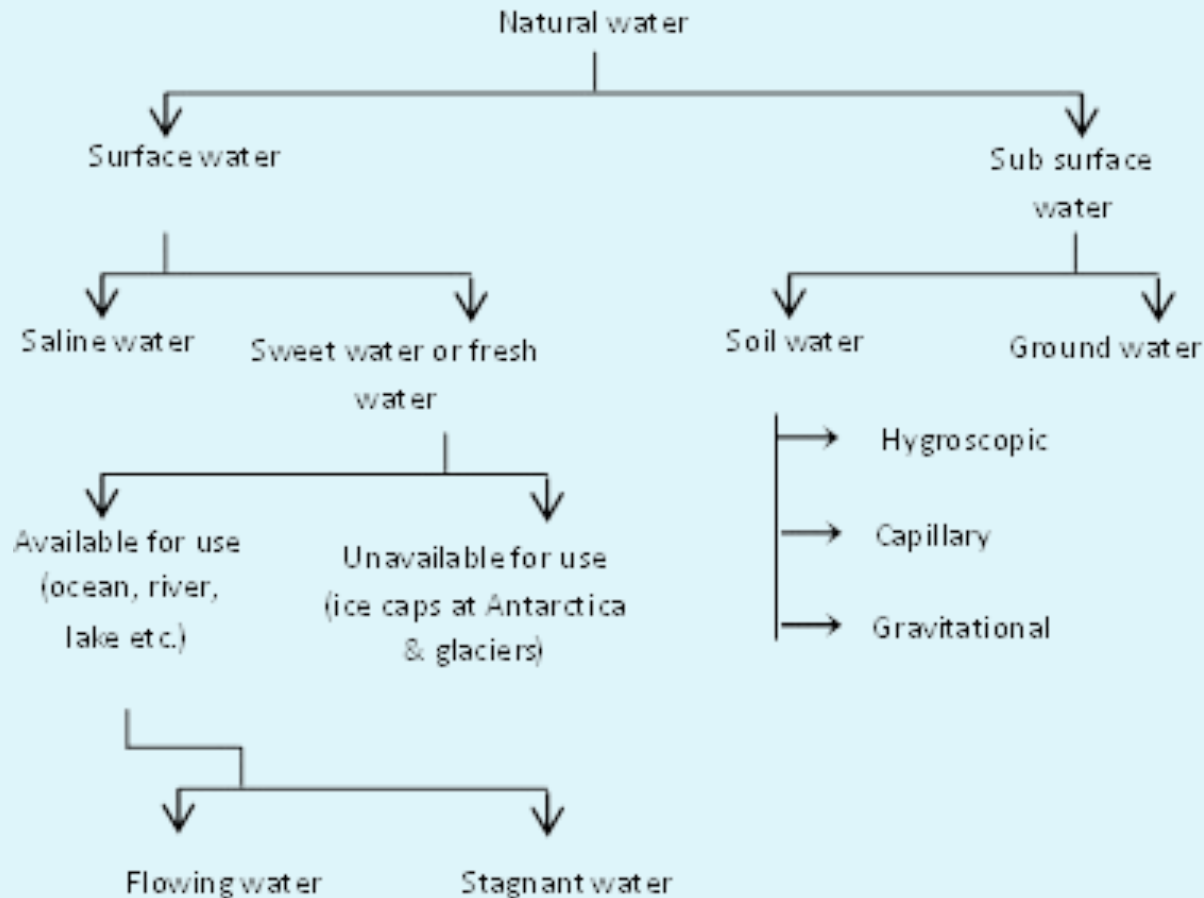


Chart: Natural water Distribution

# Hydrological Cycle

- The hydrological cycle or water cycle is the cycling, of water through the different parts of the Earth. This cycle includes evaporation and transpiration of water, formation of cloud, precipitation of water from cloud and followed by infiltration or runoff into surface water courses.
- Hydrological cycle is a natural cycle and the **backbone** of the hydrosphere. This cycle is also responsible for the proper distribution of water and maintains the **hydrological budget**.

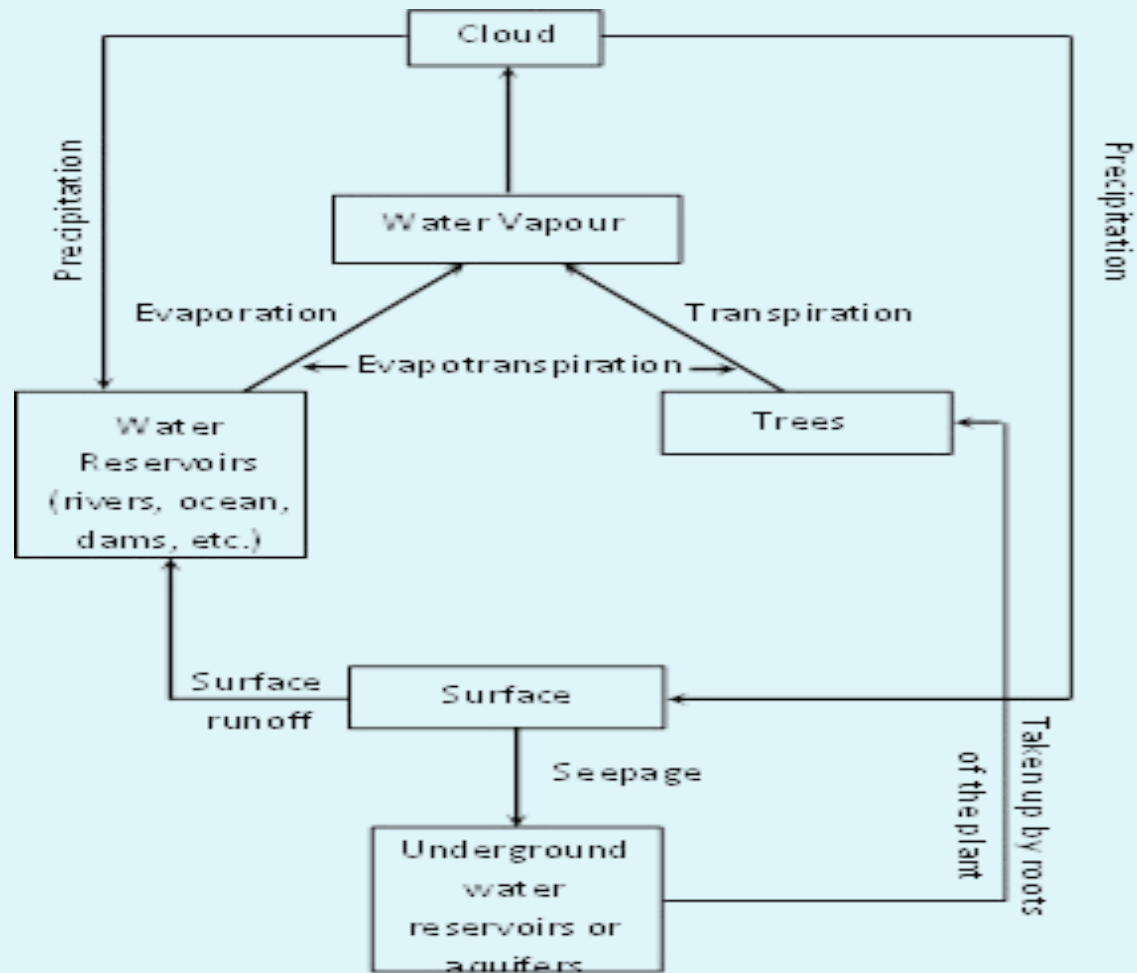


Fig.) Block diagram of hydrological cycle