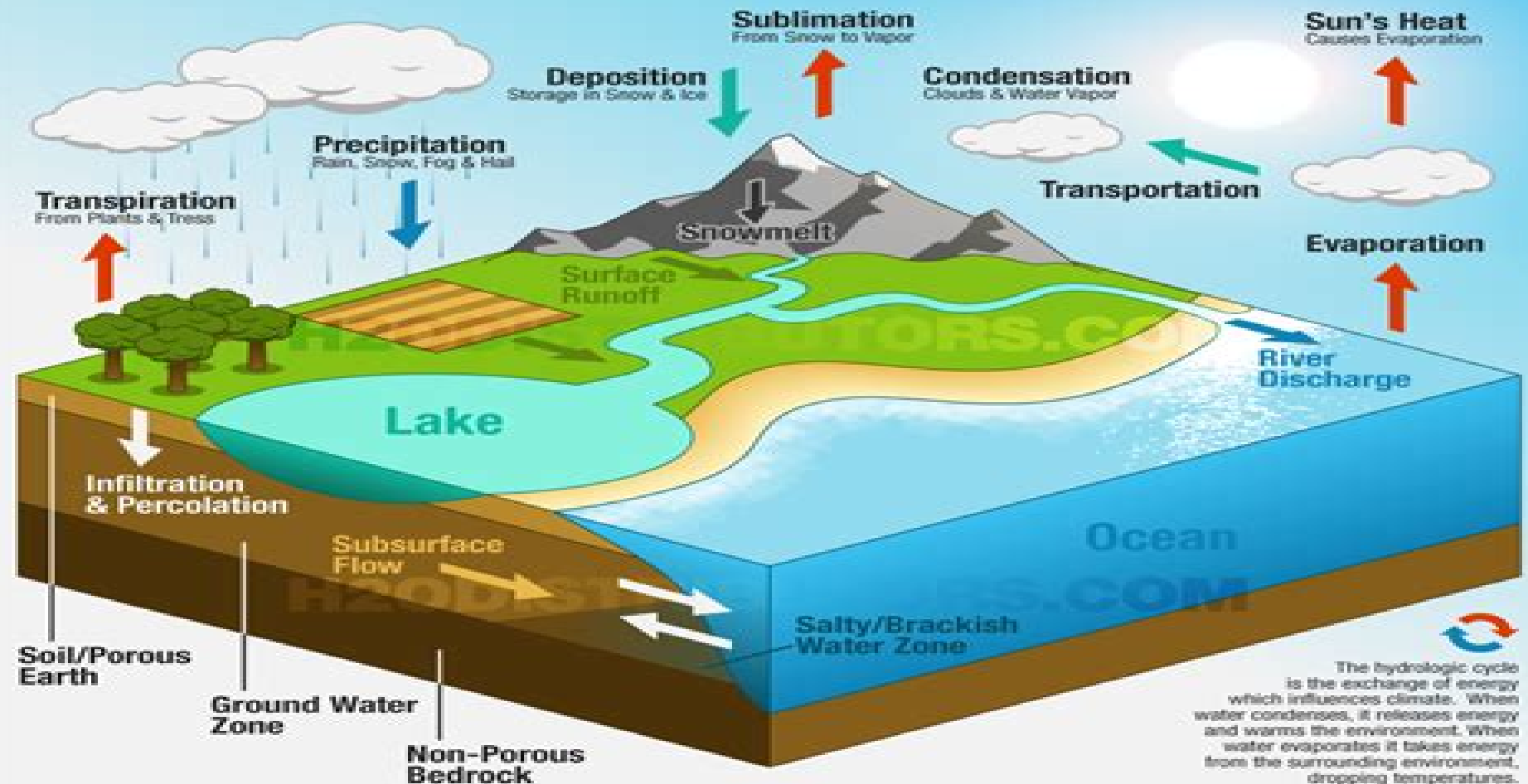


Hydrologic Cycle

The Hydrologic Cycle (also called the Water Cycle) is the continuous movement of water in the air, on the surface of and below the Earth.

Human activities that alter the water cycle:

- Alteration of Atmosphere
- Construction of Dams
- Deforestation and Afforestation
- Water Abstraction from Rivers
- Agriculture
- Industry
- Urbanization



The hydrologic cycle is the exchange of energy which influences climate. When water condenses, it releases energy and warms the environment. When water evaporates it takes energy from the surrounding environment, dropping temperatures.

Process Definitions:

Condensation

The transformation of water vapor to liquid water droplets in the air, creating clouds and fog.

Deposition

Also known as desublimation, is a thermodynamic process, a phase transition in which gas (vapor) transforms into solid (ice).

Evaporation

The transformation of water from liquid to gas phases as it moves from the ground or bodies of water into the overlying atmosphere.

Percolation

Water flows horizontally through the soil and rocks under the influence of gravity.

Precipitation

Condensed water vapor that falls to the Earth's surface. Most precipitation occurs as rain, but also includes snow, hail, fog drip, graupel, and sleet.

Sublimation

The state change directly from solid water (snow or ice) to water vapor.

Transpiration

The release of water vapor from plants and soil into the air. Water vapor is a gas that cannot be seen.

Handbook Of Hydrological Studies In Oceans And Seas

Roman Wölfel



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International Law of the Sea and Marine Affairs **The Arctic Basin** Ivan E. Frolov, Zalman M. Gudkovich, Vladimir F. Radionov, Alexander V. Shirochkov, Leonid A. Timokhov, 2006-08-25 A group of authors from the Arctic and Antarctic Research Institute in St Petersburg Russia have all achieved individual doctoral theses on various aspects of Arctic and Antarctic research This book is written by experienced group of researchers and authors *Polar Seas Oceanography* Vladimir A. Volkov, Ola M. Johannessen, Victor E. Borodachev, Gennadiy N. Voinov, Lasse H. Pettersson, Leonid P. Bobylev, Alexei V. Kouraev, 2002-06-01 Rapid development of Earth observation satellite using remote sensing techniques enables observations of the oceanic processes by sea and airborne study to be carried out over vast areas in a short time This first book written by Russian and Norwegian scientists is an analysis of studies of the Kara Sea and presents a unique catalogue of environmental and pollution data of the joint Norwegian and Russian oceanographic expedition studies of the Kara Sea spanning three decades Report of the National Marine Fisheries Service for the Calendar Year ... United States. National Marine Fisheries Service, 1977 Soviet-bloc Research in Geophysics, Astronomy, and Space, 1967 Guide to Process Based Modeling of Lakes and Coastal Seas Anders Omstedt, 2015-07-21 This new edition of Guide to Process Based Modeling of Lakes and Coastal Seas brings the modeling up to date taking into account multiple stressors acting on aquatic systems The combination of acidification and increasing amounts of anoxic waters associated with eutrophication puts severe stress on the marine environment The detection and attribution of anthropogenic changes in coastal seas are therefore crucial and transparent modeling tools are increasingly important Modeling the marine CO₂ O₂ system makes systematic studies on climate change and eutrophication possible and is fundamental for understanding the Earth system This second edition also includes new sections on detection and attribution and on modeling future changes as well as improved exercises updated software and datasets This unique book will stimulate students and researchers to develop their modeling skills and make model codes and data transparent to other research groups It uses the general equation solver PROBE to introduce process oriented numerical modeling and to build understanding of the subject step by step The equation solver has been used in many applications particularly in Sweden and Finland with their numerous lakes archipelago seas fjords and coastal zones It has also been used for process studies in the Polar Seas and the Mediterranean Sea and the approach is suitable for applications in many other environmental applications Guide to Process Based Modeling of Lakes and Coastal Seas is a unique teaching tool for systematic learning of aquatic modeling approaches lake and ocean modeling from a new angle introduces aquatic numerical modeling using a process based approach enables the thorough understanding of the physics

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