

LAKES



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What are lakes?

- § A **lake** (from Latin *lacus*) is a terrain feature (or physical feature), a body of liquid on the surface of a world that is localized to the bottom of basin (another type of landform or terrain feature).
- § On Earth, a body of water is considered a lake when it is inland, not part of the ocean, is larger and deeper than a pond, and is fed by a river.
- § A body of (usually fresh) water surrounded by land.

Categories:

- § **Natural Lakes:** Tectonic uplift, landslides or by glacial blockages where there is no natural outlet or where the water evaporates rapidly, volcanic craters which fill up with precipitation.
- § **Artificial Lakes:** A lake created by flooding land behind a dam, called an impoundment or reservoir; by deliberate human excavation; or by the flooding of an excavation incident to a mineral-extraction operation such as an open pit mine or quarry. Some of the world's largest lakes are reservoirs.

How are lakes different from Wetlands?

- § A **wetland** is an area of land whose soil is saturated with moisture either permanently or seasonally.
- § These areas may also be covered partially or completely by shallow pools of water.
- § Wetlands include swamps, marshes, and bogs, among others. The water found in wetlands can be saltwater, freshwater, or brackish.



Some of the important lakes in India

- Sambhar Salt Lake (240)
- Pulicat Lake
- Dal Lake
- Bhrigu Lake
- Khajjiar Lake
- Nako Lake
- Parashar Lake
- Renuka Lake
- Rewalsar Lake
- Pangong Tso
- Wular Lake (189)
- Ashtamudi Lake (614)
- Osman Sagar
- Rajsamand Lake
- Pushkar Lake
- Nakki Lake
- Bhimtal Lake
- Hussain Sagar Lake
- Tulsi Lake
- Vembanad Lake
- Kolleru Lake (901)
- Sasthamkotta Lake (3.73)
- Chilika Lake (1165)
- Loktak Lake (266)
- Umiam Lake
- Dhebar Lake
- Sat Tal



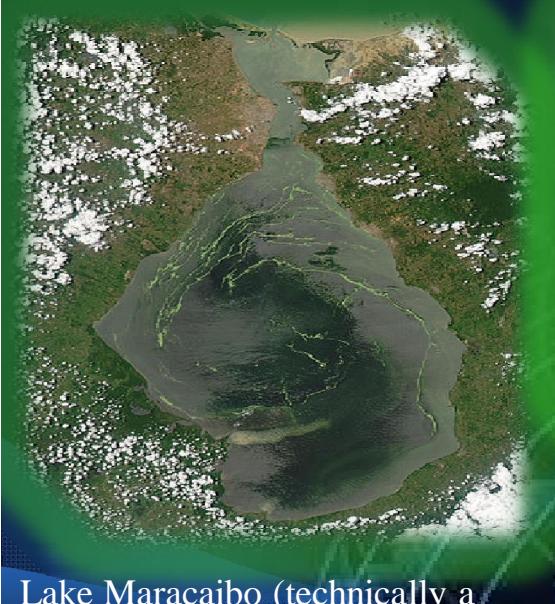
The Caspian Sea



Lake Tahoe on the border of California and Nevada.



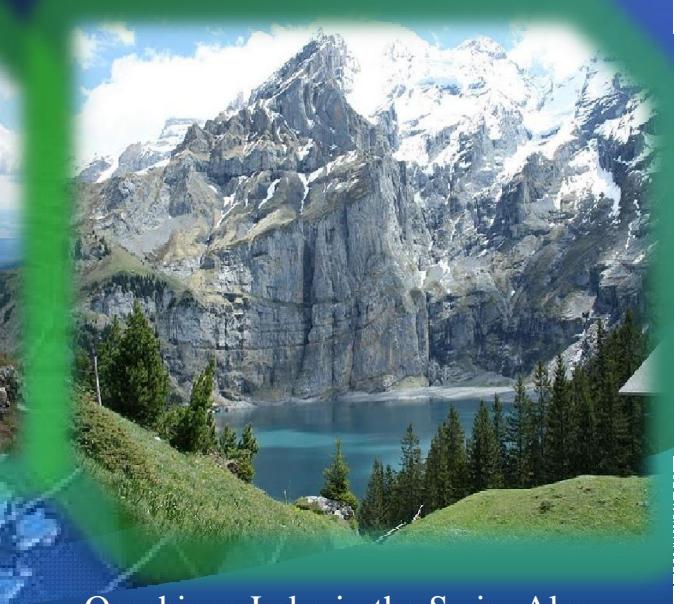
Blowdown Lake in the mountains near Pemberton, British Columbia



Lake Maracaibo (technically a bay), Venezuela..



The Seven Rila Lakes are a group of glacial lakes in the Bulgarian Rila mountains



Oeschinensee Lake in the Swiss Alps.



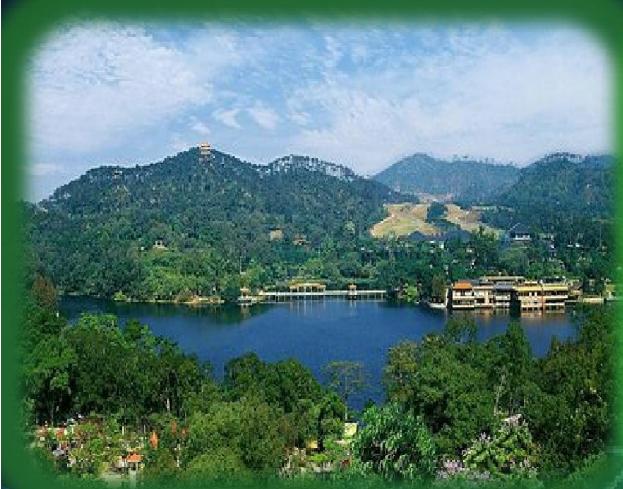
Lake Teletskoye, Siberia



The crater lake of Volcán Irazú,
Costa Rica



Lake Huron, Ontario, Canada



Luhu Lake, a man-made lake in
Guangzhou.



Kodai lake , Tamil Nadu



Chilika lake , Orissa

Functioning of the Lake

Physical

- q Flow
- q Velocity
- q Mixing
- q Settling
- q Environmental. – Temp, Pressure, Precipitation, Evaporation, Wind etc.

Chemical

- q Reactions
- q Oxidation / Reduction / Precipitation

Biological

- q Uptake
- q Biotransformation
- q Bioaccumulation

