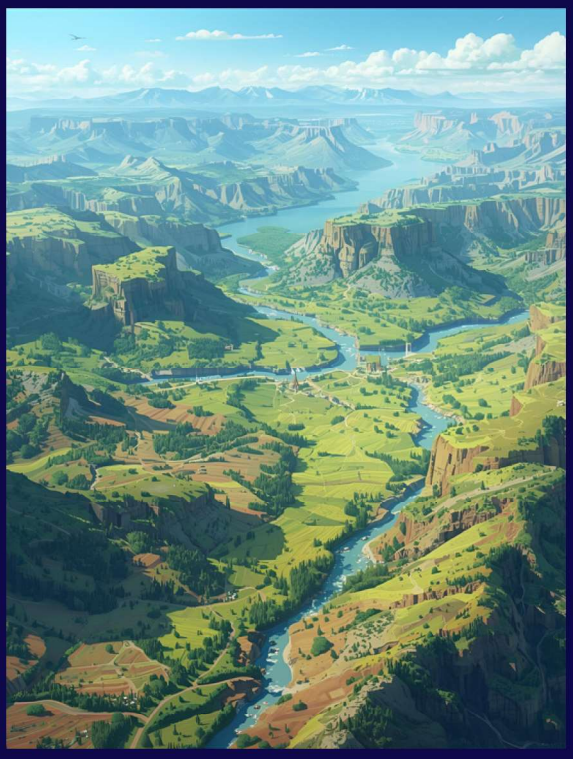
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Landforms









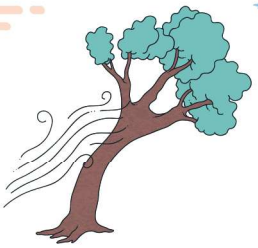
Landforms



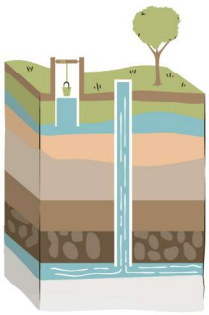
- Landforms are natural or human-made features on the Earth's surface.
- It include hills, mountains, plains, and more.



Landforms Due To Various Agents



- River
- Glacier
- Wind
- Sea waves
- Ground Water





Types of Landforms

Erosional landforms

They are created by process of Erosion



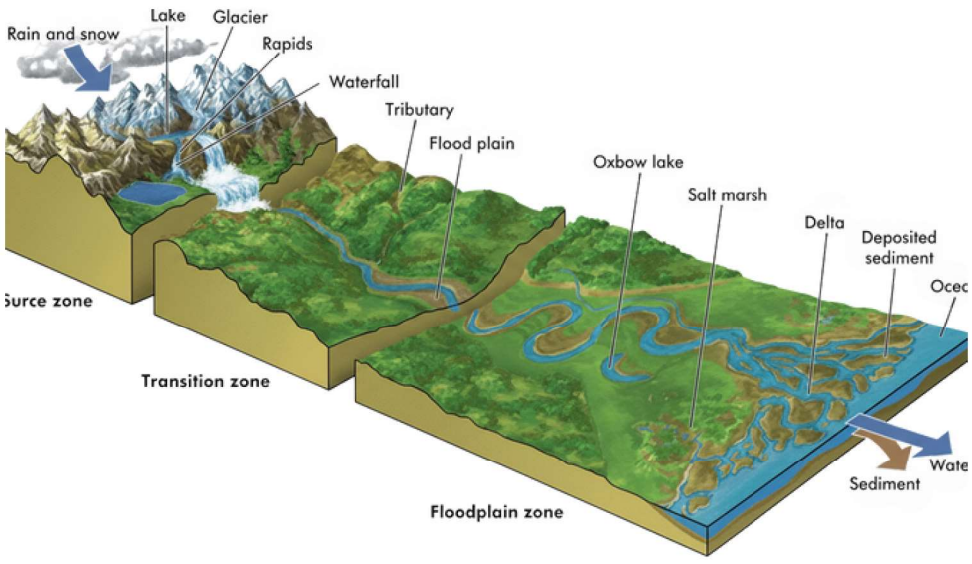
Depositional landforms

They are created when sediments are deposited in areas of reduced flow energy.



Landforms Created by River

A river goes through three stages: Youthful, Mature and Old. The course of river includes the upper stage, the middle stage, and the lower stage.



Stages of River

Youthful Stage

River flows in speed and creates V-shaped Valley, Gorges, Canyons, Waterfalls, Entrenched Meander.

Mature Stage

The river flows through gradient to flat plain and starts to Meander.

Old Stage

The Final stage of river's journey to make Ox-Bow lakes, Delta, Flood Plains.

Riverine Landforms

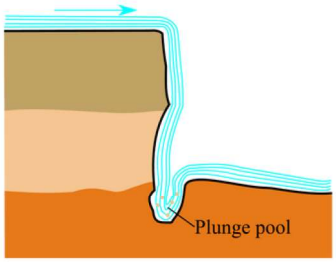
Erosional	Potholes, Waterfalls, Plunge Pools, V-Shaped Valley, Gorges, Canyons, River Terraces, Entrenched Meanders, Cataract Waterfall
Depositional	Flood Plains, Ox-bow lakes, Point Bar, Alluvial Fans, Levees, Braided Channel.



Pothole



V-Shaped Valley



Plunge Pool



Waterfalls



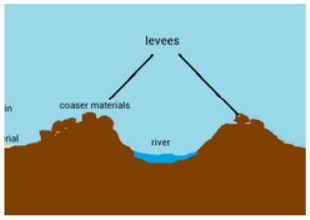
River Terraces



Flood Plains



Entrenched Meanders



Levees



Alluvial Fans



Meanders



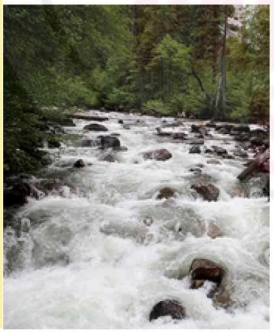
Braided Channel.



Ox-Bow lake

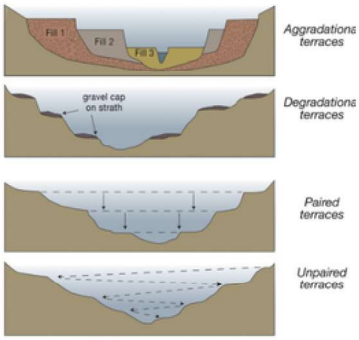
Rapid

Sections of a river with turbulent, fast-flowing water caused by a steep gradient or obstacles like rocks and boulders



River Terraces

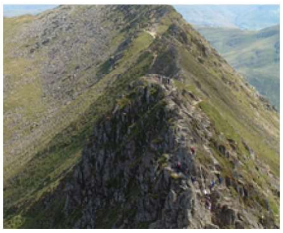
A flat, elevated landform on the side of a valley that represents a former floodplain or river floor, formed by the river's erosion and deposition processes



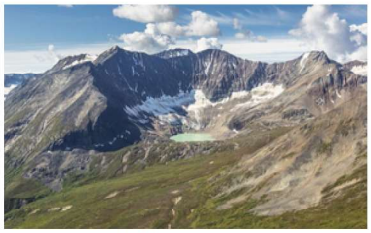
Landforms Created by Glaciers

Glacial Landforms

Erosional	Cirque, Ridge/Arete, Horn, Hanging Valley, Glacial Valleys.
Depositional	Moraines, Eskers, Drumlins, Outwash Plains.



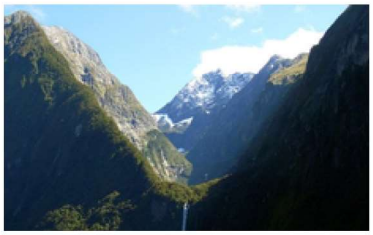
Arete



Cirque



Horn



U-shaped Valley



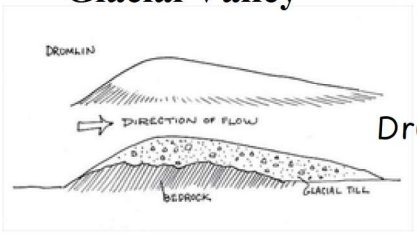
Glacial Valley



Moraines



Eskers



Drumlins are called Basket of Egg Topography

Drumlins



Outwash Plains.

Fjord

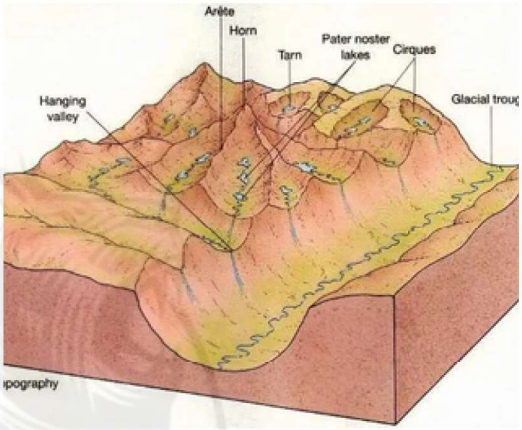
Sea water entering into Glacial Valley

Tarn Lake

It is created when water fill up in cirque.



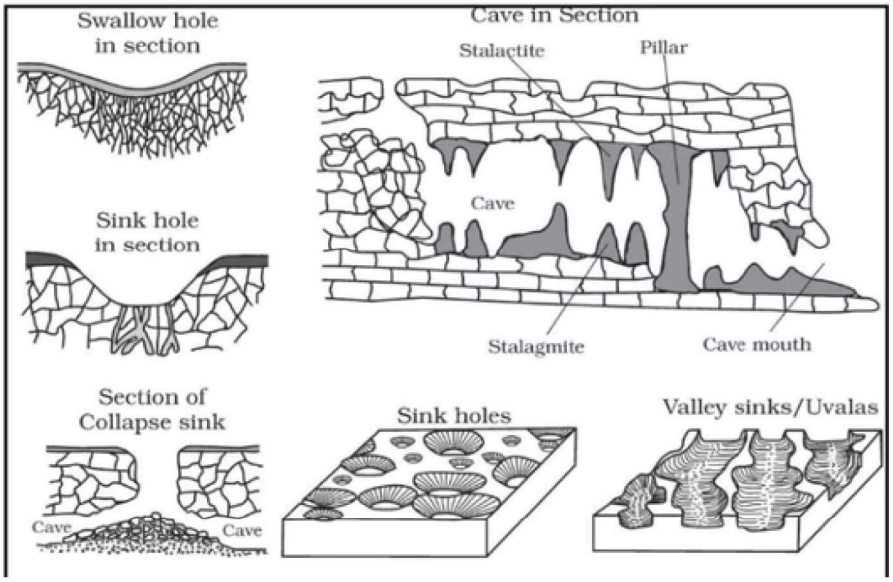




Landforms Created by Groundwater

- It is also known as Karst Topography.
- They are found in rocks that are permeable, thinly bedded and highly jointed and cracked like limestone and dolomite, which are rich in calcium carbonate.

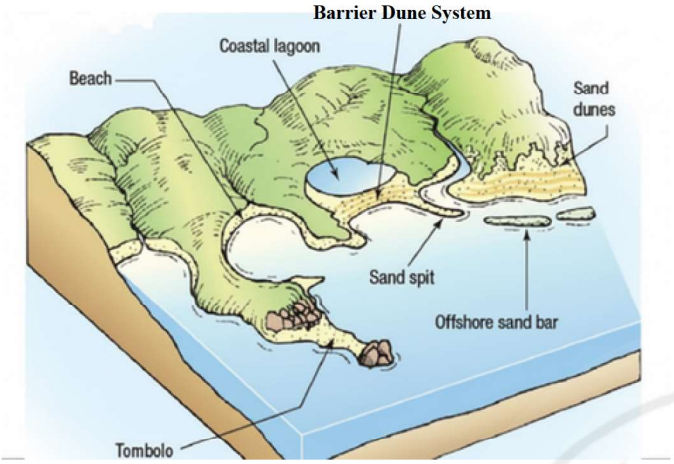
Karst Topography	
Erosional	Sink Hole, Dolines, Lapies, Uvalas, Limestone pavements, Swallow Hole
Depositional	Stalactite, Pillars, Stalagmite, Aquifer.

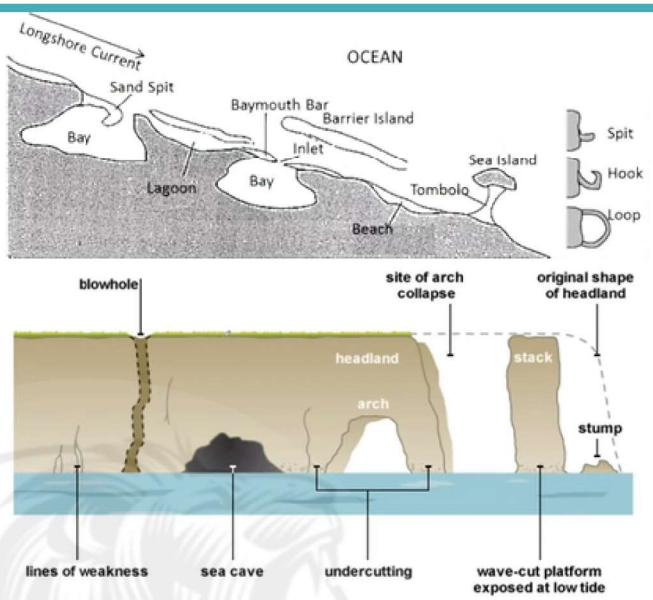




Landforms Created by Seawaves

Landforms Created by Seawaves	
Erosional	Cliff, Sea Caves, Stack, Arch, Headland..
Depositional	Beaches, Bars, Barriers, Spits, Tombolo





Landforms Created by Winds

Landforms Created by Winds	
Erosional	Pediplain, Playas, Mushroom Rock, Pedestal Rocks, Yardang, Zeugen
Depositional	Sand Dunes (Barchan and Seif)

- **Barchans :** They are crescent shaped dunes whose point or wings are directed away from wind direction. They are found in Jaisalmer, Rajasthan.
- **Seif :** It is similar to a Barchan with only one wing


Sand Dunes


Mushroom rock


Playas

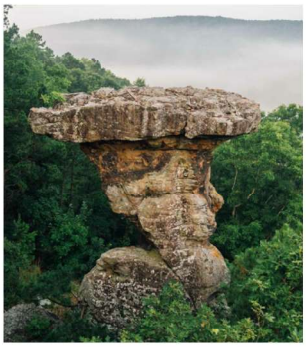

Zeugen

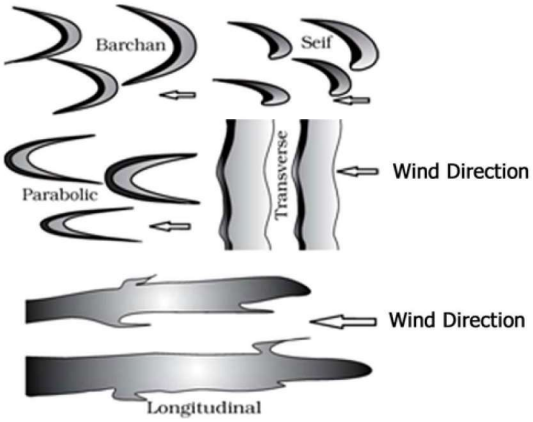

Yardang


Barchan


Pediplain


Inselberg / Monadnock


Pedestal Rock



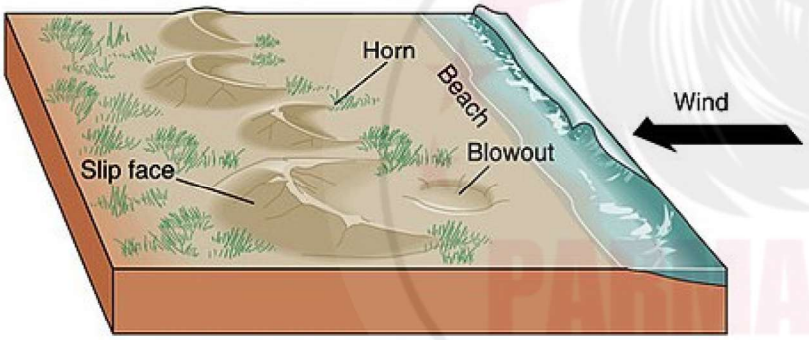


Oasis



Loess

- **Oasis :** A fertile area in an arid region, like a desert, where a freshwater source makes plant life possible
- **Loess :** When the grains of sand are very fine and light, the wind can carry it over a very long distance, such sand gets deposited in large areas and is called as Loess.
- **Parabolic Dunes :** It is created by vegetation that anchors the sides of the dune while wind erosion forms a depression in the center and deposits sand at the downwind tip



C Parabolic dunes