

EARTH MOVEMENTS

 The earth movements are divided on the basis of forces.

- Endogenic forces.
- Exogenic forces

EXOGENIC FORCES

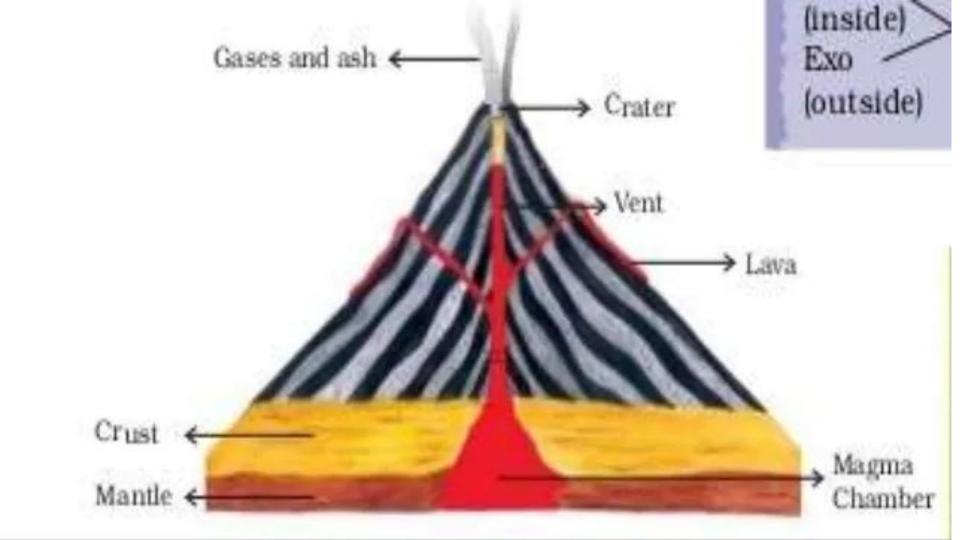
- Exogenic refers to external processes and phenomena that occur on or above the Earth's surface.
- Weathering effects and erosion are exogenic processes.

ENDOGENIC FORCES

- The term Endogenic refers to internal processes and phenomena that occur beneath the earth's surface - or any other celestial body.
- earthquakes and volcanoes are all endogenic processes.

VOLCANO

- A volcano is an opening, or rupture, in a planet's surface or crust, which allows hot, molten rock, ash, and gases to escape from below the surface
- The word volcano is derived from Italian volcano, after Vulcan, the Roman god of fire.





EARTHQUAKES

- When the Lithospheric plates move, the surface of the earth vibrates.
- The vibrations can travel all round the earth. These vibrations are called earthquakes.
 - An earthquake (also known as a tremor or temblor) is the result of a sudden release of energy in the Earth's crust that creates seismic waves. Earthquakes are recorded with a seismometer, also known as a seismograph.

HOW EARTHQUAKES ARE FORMED

- The place in the crust where the movement starts is called the Focus.
- The place on the surface above the focus is called the Epicenter.
- Vibrations travel outwards from the Epicenter as waves.
- Greatest damage is usually closest to the Epicenter and the strength of the earth quake decreases away from the centre



MAJOR LAND FORMS

The landscape is being formed by two processes:

- □ Weathering
- □ Erosion

WEATHERING

Weathering is the breaking up of the rocks on the earth's surface.



EROSION

Erosion is the removal of solids
 (sediment, soil, rock and other particles) in
 the natural environment. It usually occurs due
 to transport by wind, water, or ice.

FEATURES OF RIVERS

Following features are made by river are:

- Water fall
- Meanders
- Ox-bow lake
- Floodplain
- Levees
- Delta

WATER FALL

 A waterfall is a place where flowing water rapidly drops in elevation as it flows over a steep region or a cliff.



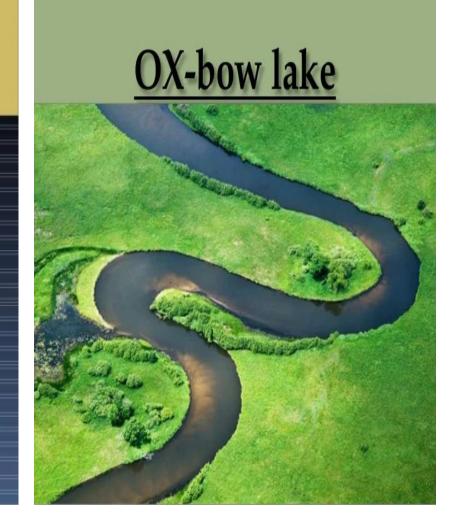
MEANDERS

The river enters the plain it twists and turns forming large bends known as Meanders.



OX-bow lake

- •An **oxbow lake** is a U-shaped body of water formed when a wide meander from the main stem of a river is cut off to create a lake.
- •This landform is called an oxbow lake for the distinctive curved shape that results from this process.



FLOODPLAIN

- * When river overflows its banks, it leads to the flooding of the neighbouring areas.
- * As it floods, it deposits layers of fine soil and other material called sediments along its banks. This lead to the formation of floodplain.



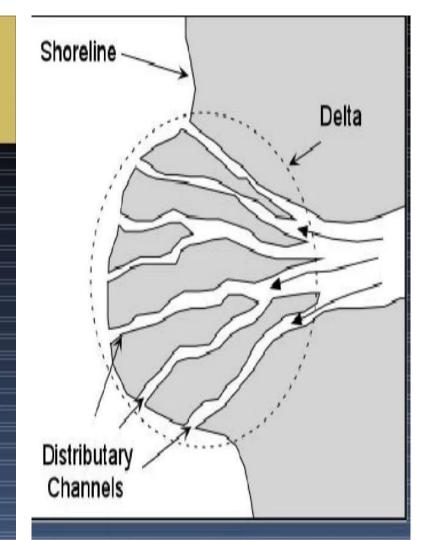
LEVEES

- The raised banks are called levees.
- As the river approaches the sea, the speed of the flowing water decreases and the river begins to break up into a number of streams called distributaries.



DELTA

• A delta is a landform that is created at the mouth of a river where that river flows into an ocean, sea, estuary, lake, reservoir, flat arid area, or another river. Deltas are formed from the deposition of the sediment carried by the river as the flow leaves the mouth of the river.



FEATURES MADE BY SEA WAVES

The features are-

- Sea caves
- Sea arches
- Stack
- Sea cliff

SEA CAVE



SEA CAVES

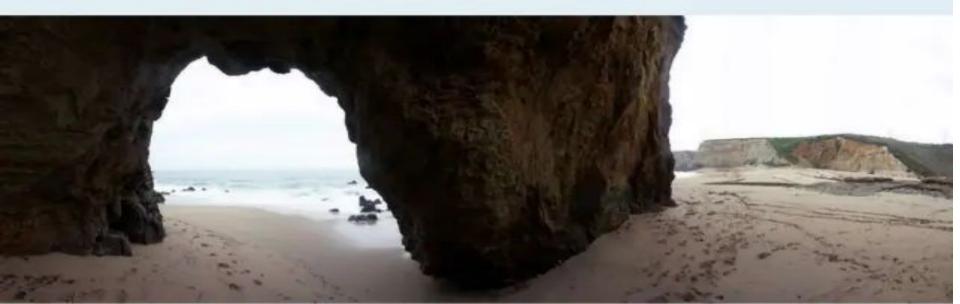
Sea caves

 A sea cave, also known as a littoral cave, is a type of cave formed primarily by the wave action of the sea.

The primary process involved is erosion.

SEA ARCHES

When sea caves become bigger and bigger only the roof of the caves remain, then form sea arches.



STACKS

Erosion breaks the roof and only walls are left. These wall like features are called stacks.



SEA CLIFF

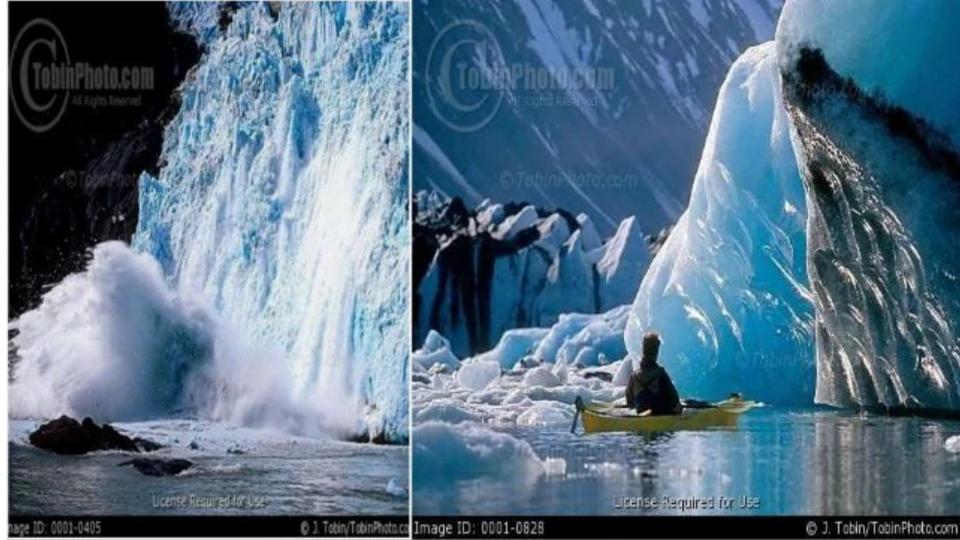
- * The steep rocky coast rising almost vertically above sea water is called sea cliff.
- The sea waves deposit sediments along the shores forming beaches.

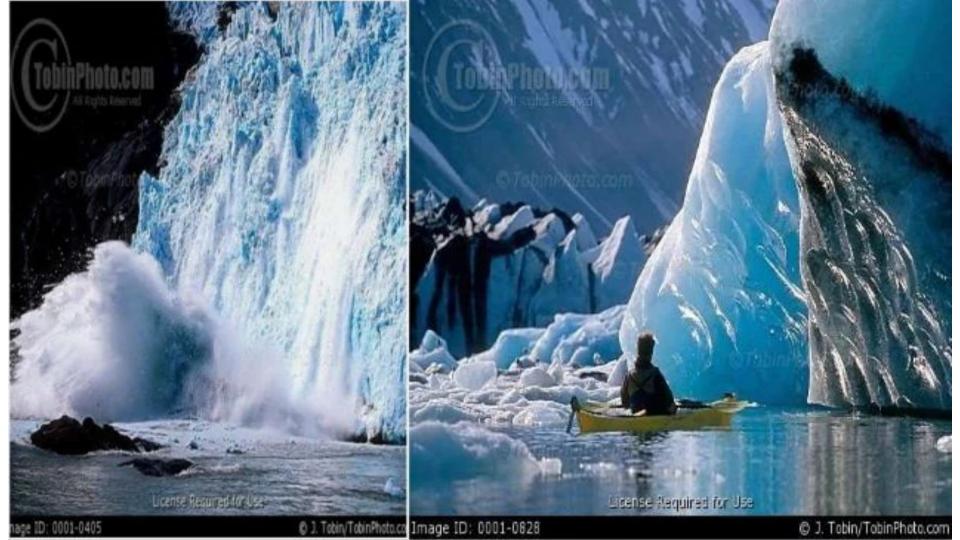


FEATURES OF ICE

These are the following-

- Glaciers
- Glacial monaries





GLACIAL MORAINES

The material carried by the glacier such as rocks big and small, sand and silt gets deposited. These deposits form



FEATURES OF WIND

These are the features-

- Mushroom rocks
- Sand dunes
- Loess

MUSHROOM ROCKS

- An active agent of erosion and deposition in the deserts is wind.
- In deserts rocks in the shape of a mushroom, commonly called mushroom rocks.



SAND DUNES

When the wind blows, it lifts and transports sand from one place to another. When it stops blowing the sand falls and gets deposited in low hill – like structures called sand dunes.

LOESS

- When the grains of sand are very fine and light, the wind can carry it over very long distances. When such sand is deposited in large areas, it is called loess.
- Large deposits of loess is found in China.

