

EROSIONAL LANDFORMS

- U-shaped valleys
- Hanging valleys
- Cirques
- Aretes
- Horn
- Nunataks
- * Roches moutonees
- Fiords

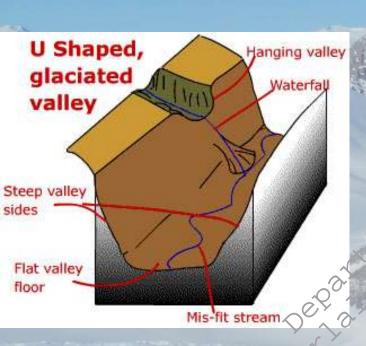
U-SHAPED VALLEY

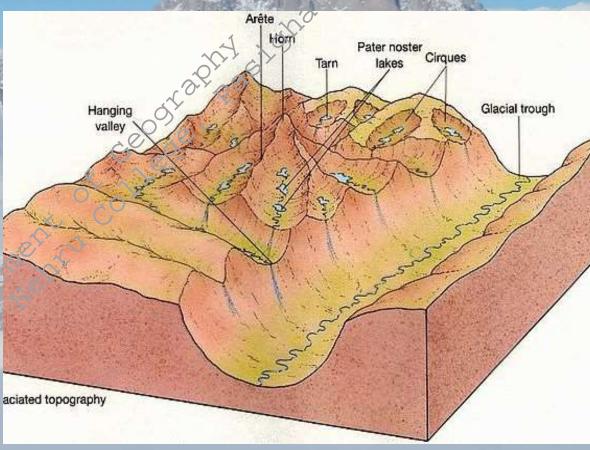
The cross-section of glacial valleys is U-shaped which is

characterized by steep valley walls The formation of U-shaped Valleys Arête U shaped valley carved out by glacier Frost shatter delivers debris and scree to ice Lateral moraines surface Snow accumulation Abrasion by stones carried by glacier By Rob Gamesby http://www.coolgeography.co.uk Hanging Valley Truncated Spurs Waterfall 1km

HANGING VALLEYS

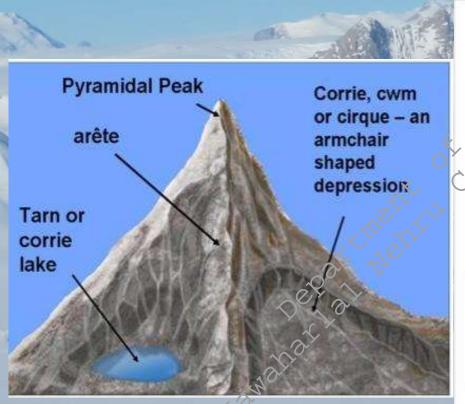
 The valleys of tributary glaciers which join the main glacial valleys of much greater depth

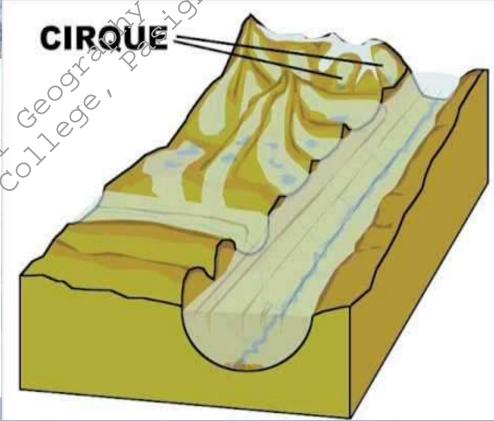




CIRQUE

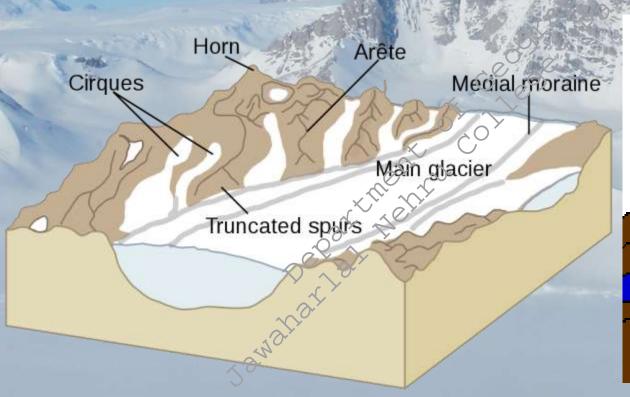
 It is an armchair-shaped steep walled depressions representing a glaciated valley head





HORNS AND ARETES

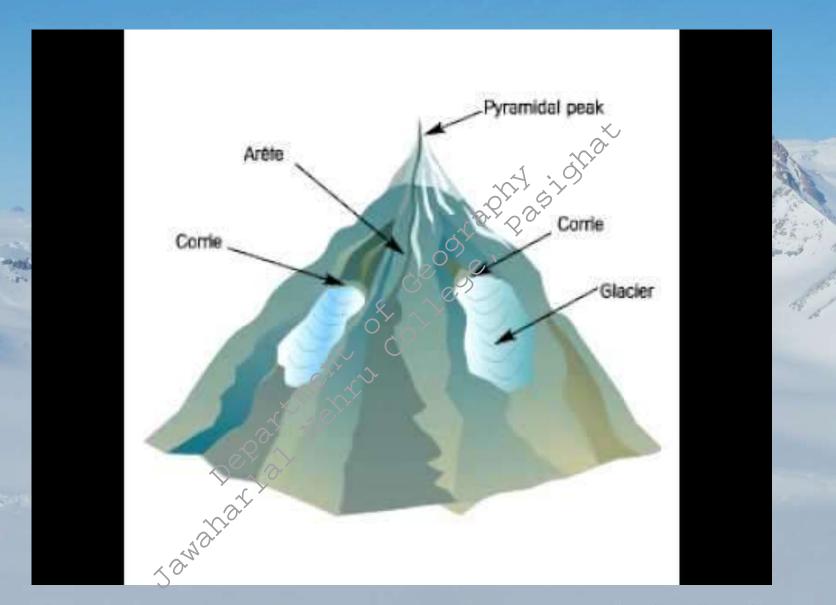
 A pyramidal or triangular-faceted peak formed due to recession and intersection of three or more cirques





Marina Langkam

Horns and Aretes contd...

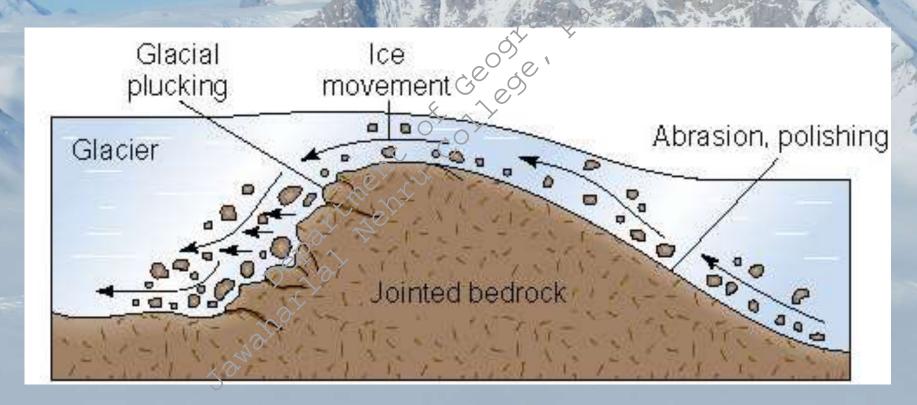


NUNATAK

- The higher peaks and mounds surrounded by ice from all sides
- They look like scattered small islands
- Therefore also called glacial islands

ROUCHES MOUTONNEES

 These are streamlined asymmetrical hillocks, mounds or hills having one side smoothly moulded with gentle slope and the steepened and craggy lee side

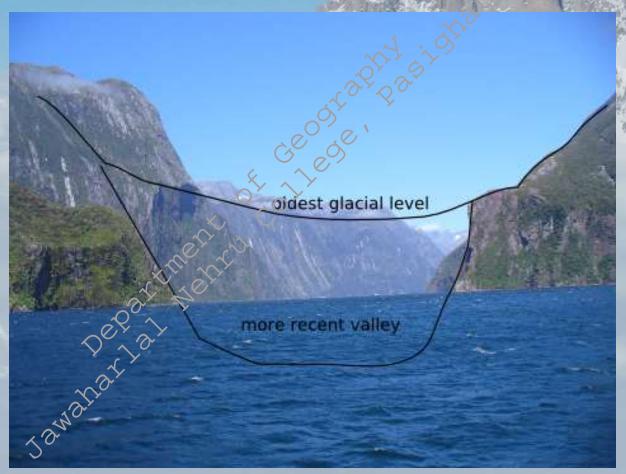


FJORDS

These are glacial troughs which are occupied by the sea

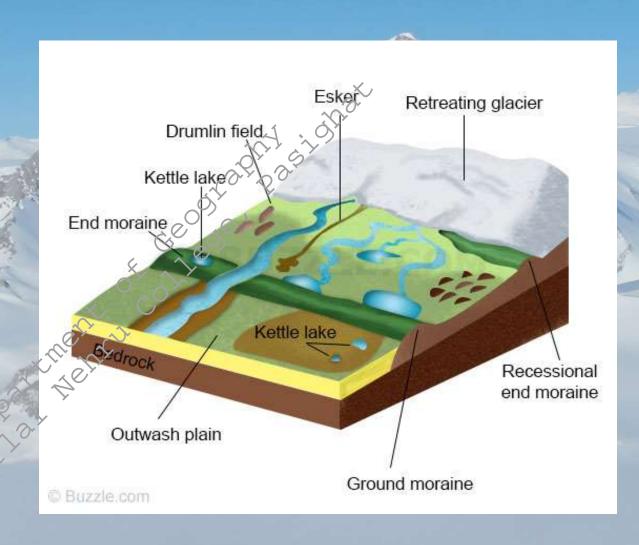
Characterized by steep side walls and several hanging

valleys



DEPOSITIONAL LANDFORMS

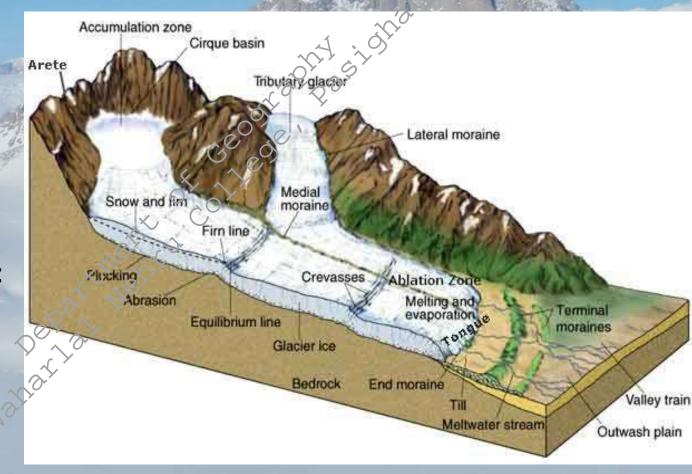
- Moraines
- > Drumlins
- > Esker
- Kames
- > Kettles
- Outwash Plains



MORAINES

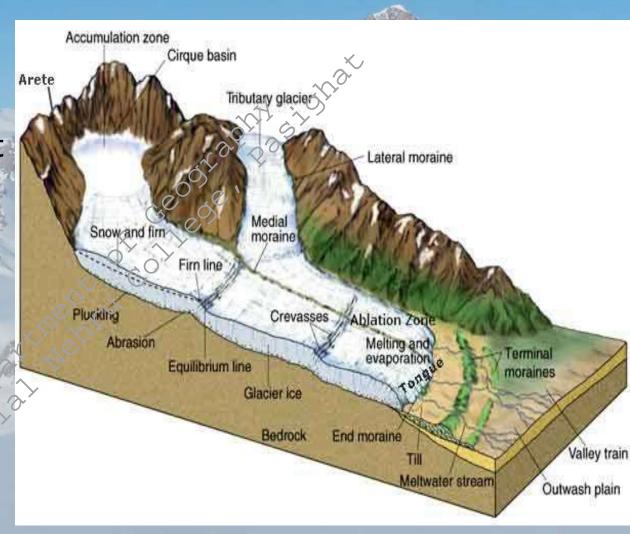
These are ridge-like depositional features of glacial tills.

- 1. Terminal
 Moraine: The
 materials
 dropped at the
 end of a
 mountain
 glacier.
- 2. Lateral Moraine:
 Materials
 deposited at
 either of the
 two sides of a
 glacier.



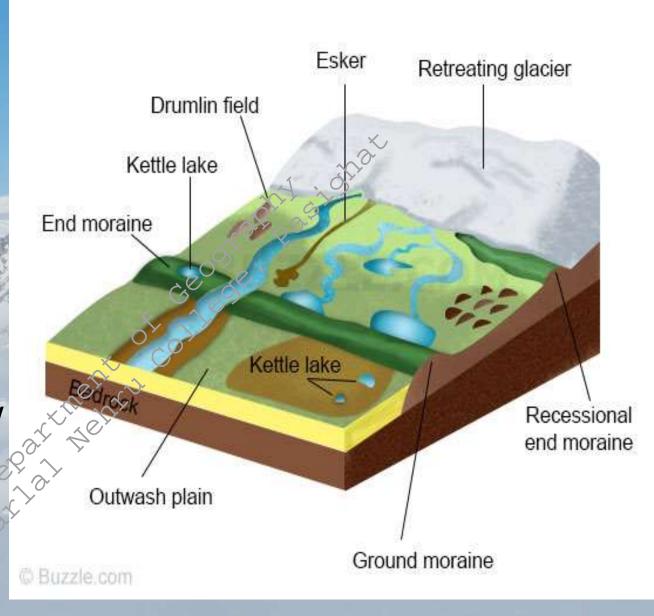
Moraines contd...

- 3. Medial Moraine:
 When two glaciers
 join, the two
 lateral moraines
 also join and form
 a single moraine at
 the confluence of
 the two glaciers. It
 is called medial
 moraine.
- 4. Ground moraine:
 When glacial sediments (till) are deposited at the floor of glacial valleys.

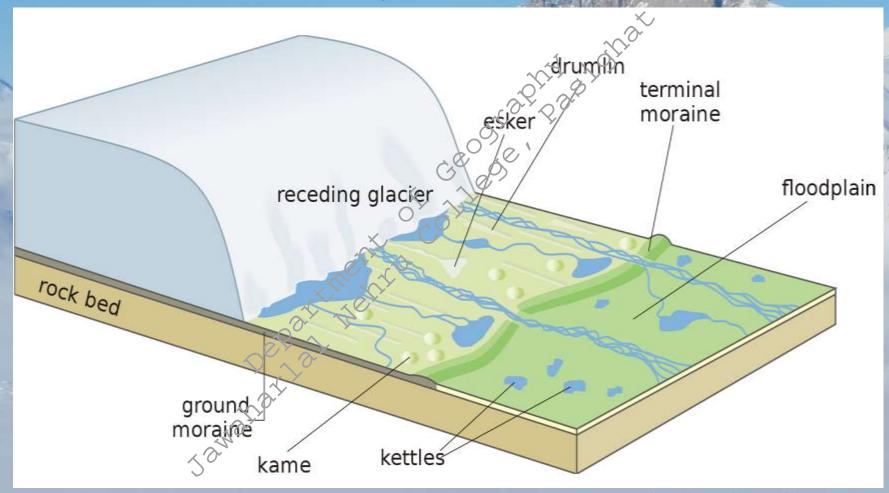


DRUMLINS: A smooth, egg-shaped hummock of glacial debris. Drumlins look like an inverted boat or spoon.

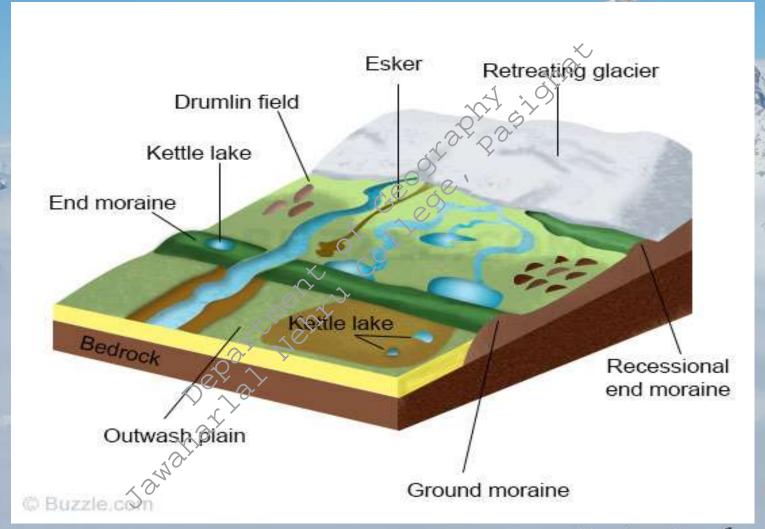
ESKERS: These are long, narrow and sinuous ridges of sands and gravels.

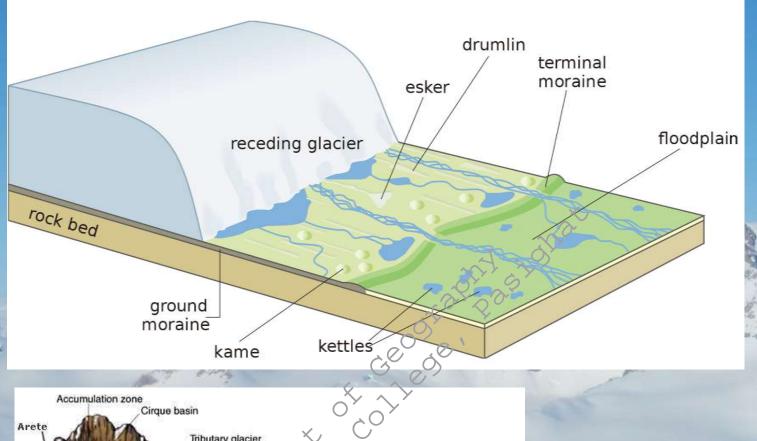


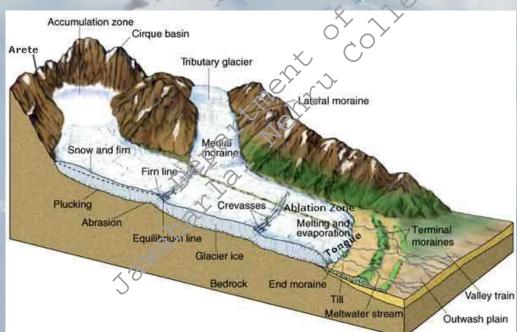
- * KAMES: Small hills or irregular mounds of bedded sands and gravels which are deposited by meltwater
- **KETTLES:** These are depressions in the outwash plains



 OUTWASH PLAINS: An extensive land surface covered by glaciofluvial sediments







Marina Langkam

