



Auxiliar N°4: Morfologías glaciares

Geomorfología GL3402

Primavera 2020

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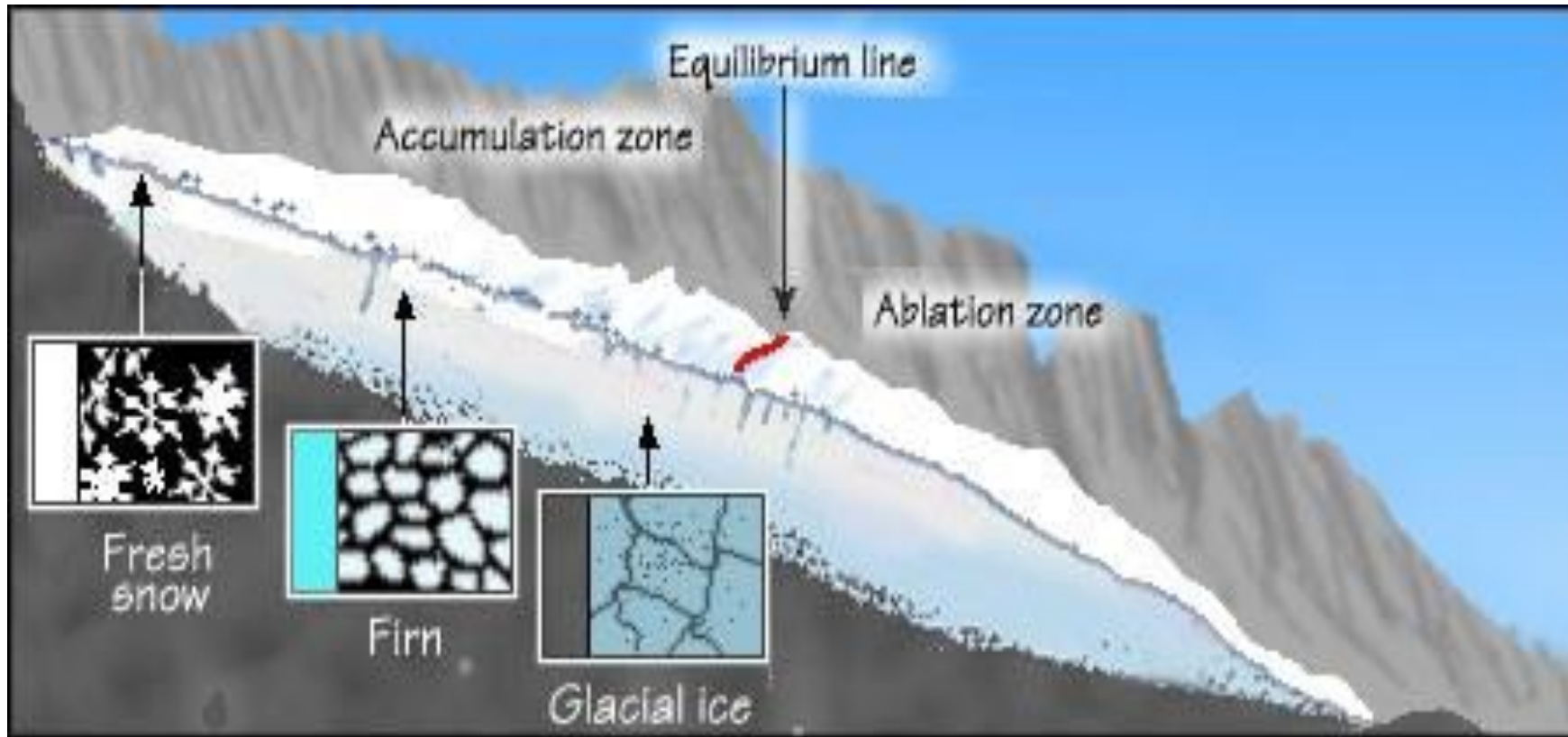
Ayudantes: Sebastián Perroud y Nicolás Buono-Core

Glaciares

- A body of ice that moves downhill under its own mass.

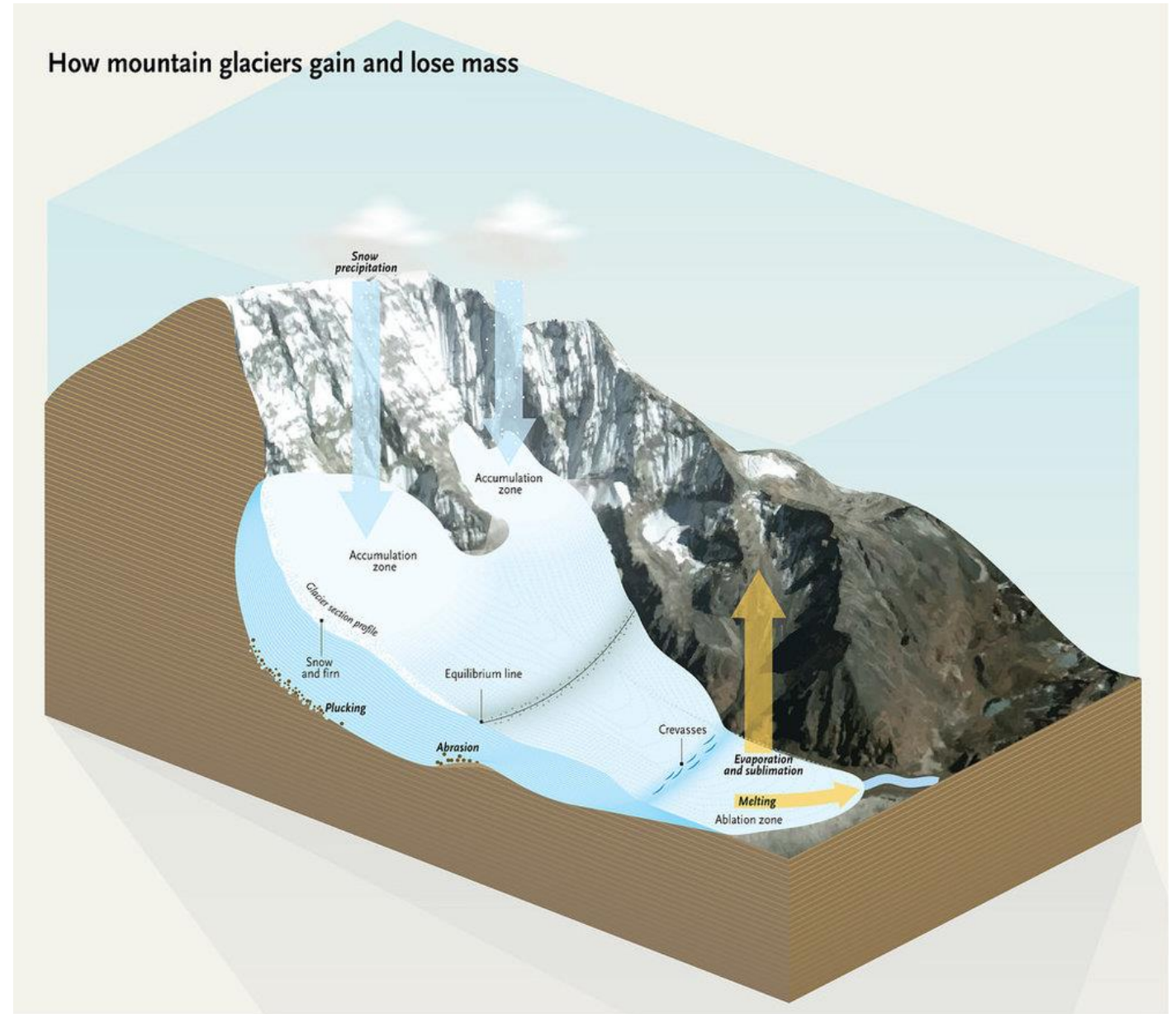


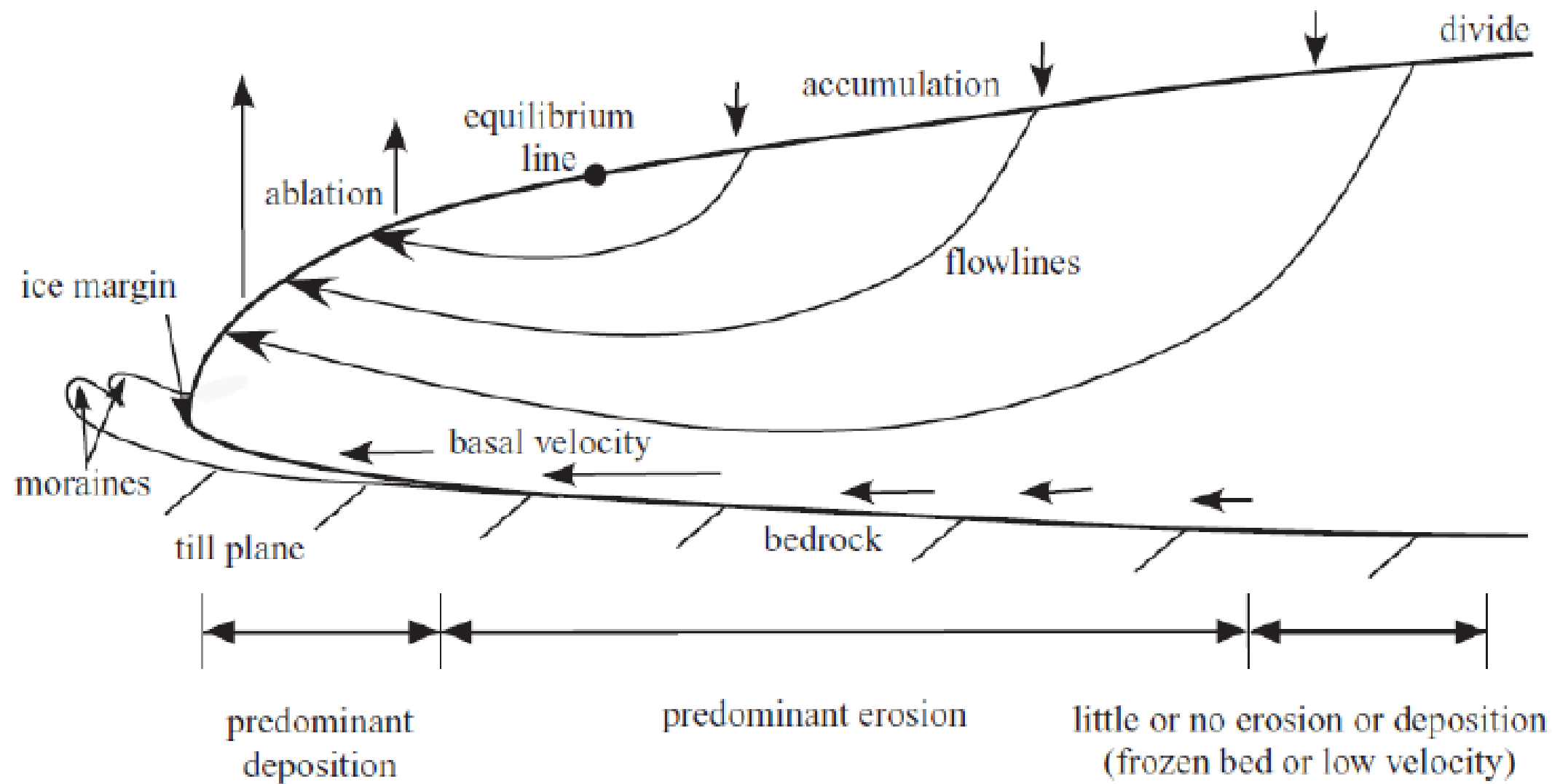
Proceso de formación



Balance de masa

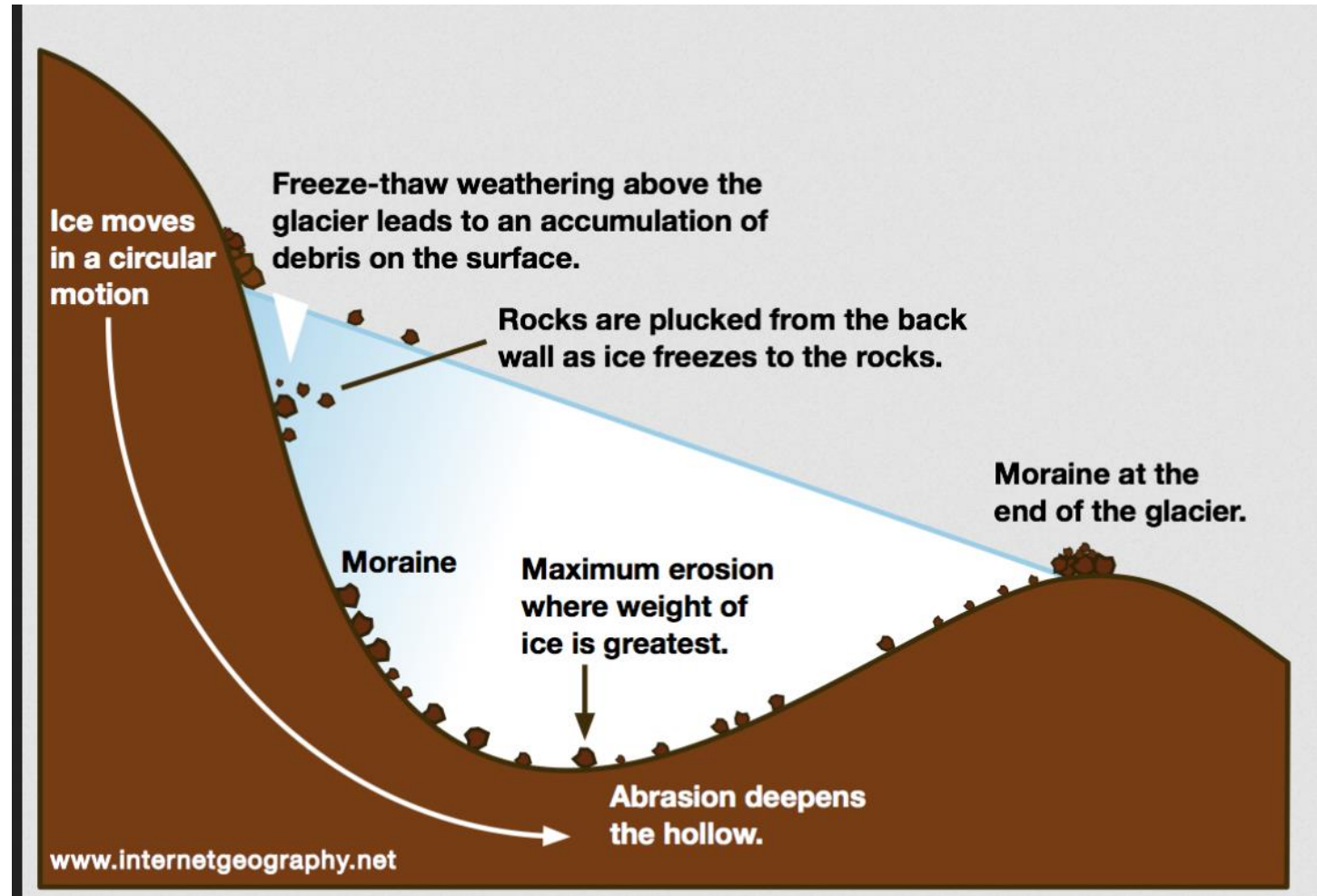
- Acumulación por precipitación
- Evaporización
- Fusión del hielo



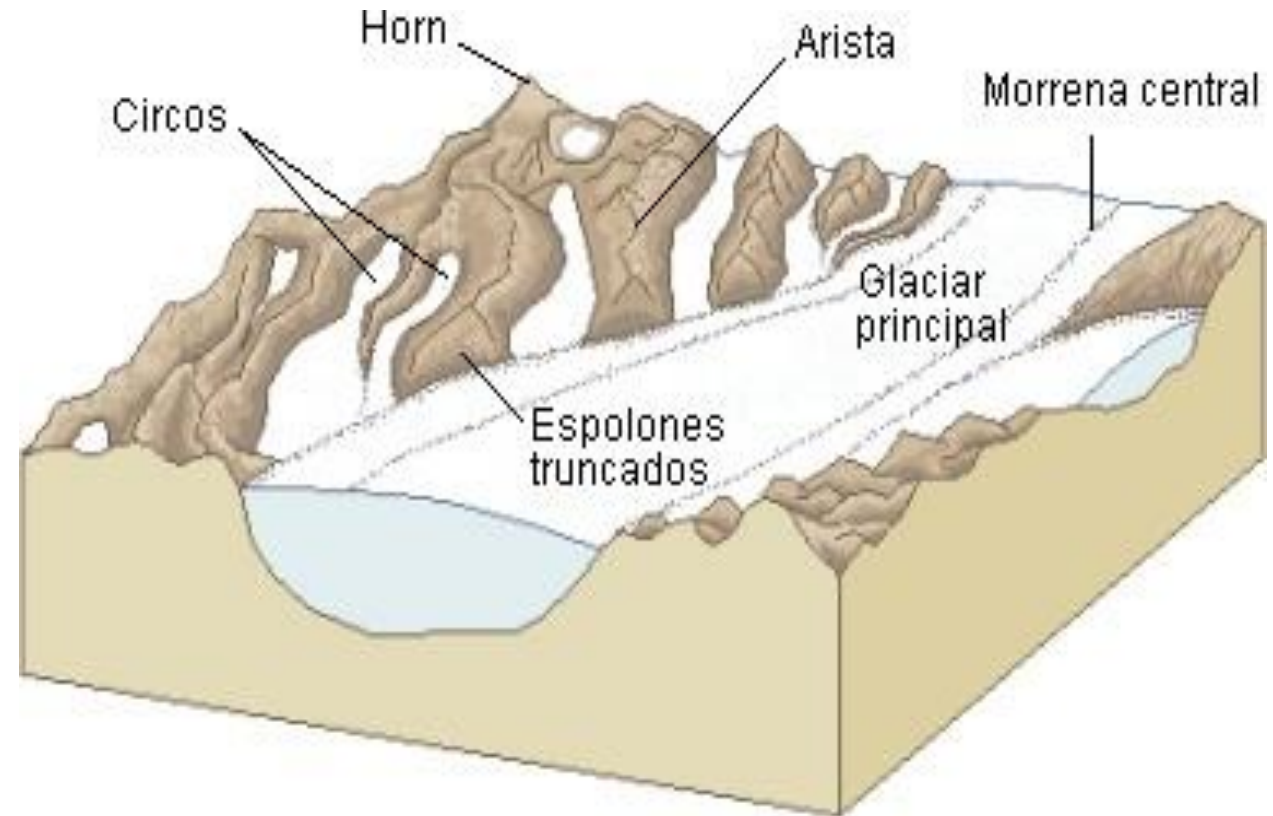
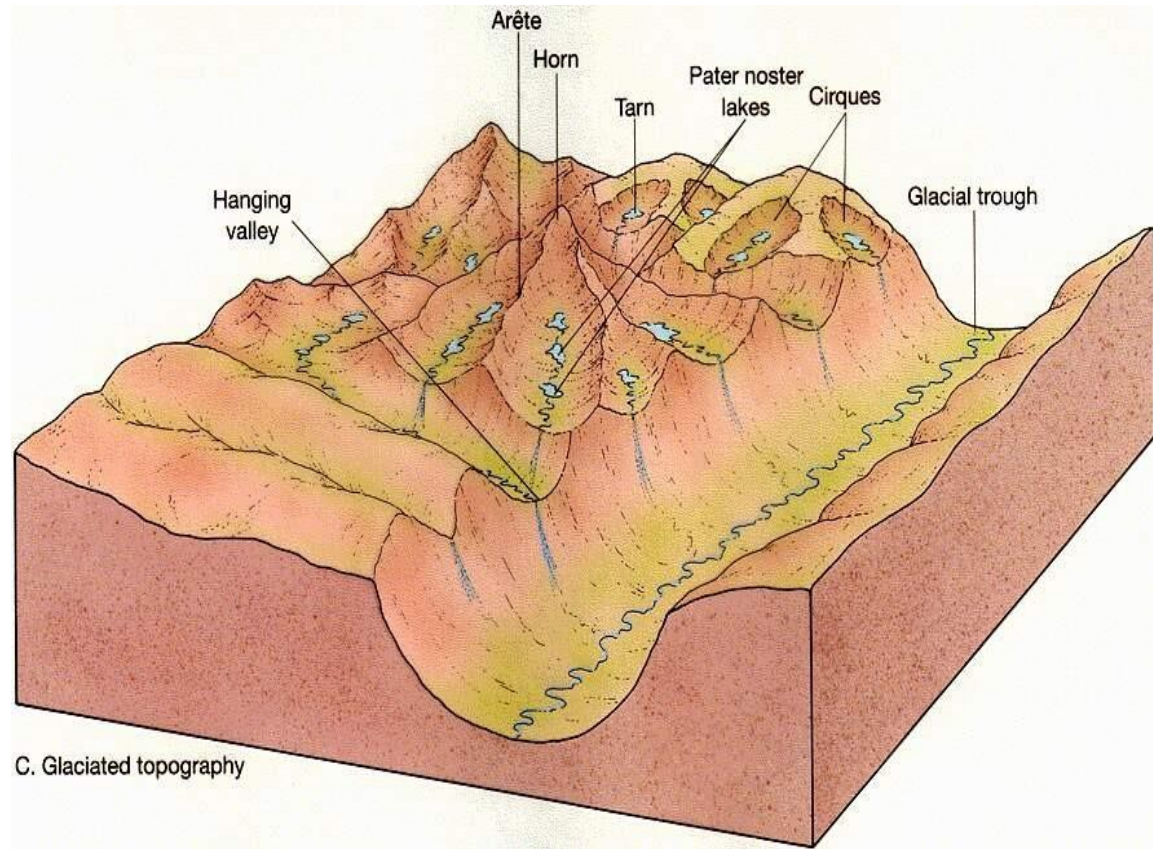


Erosión Glacial

- Arranque (plucking)
- Abrasión



Morfologías Glaciales



Valles glaciares

Valle en V



Excavado por un río

Valle en U (Artesa)



Excavado por un glaciar

Valle en U / V (Mixto)



Excavado por un glaciar
y luego por un río

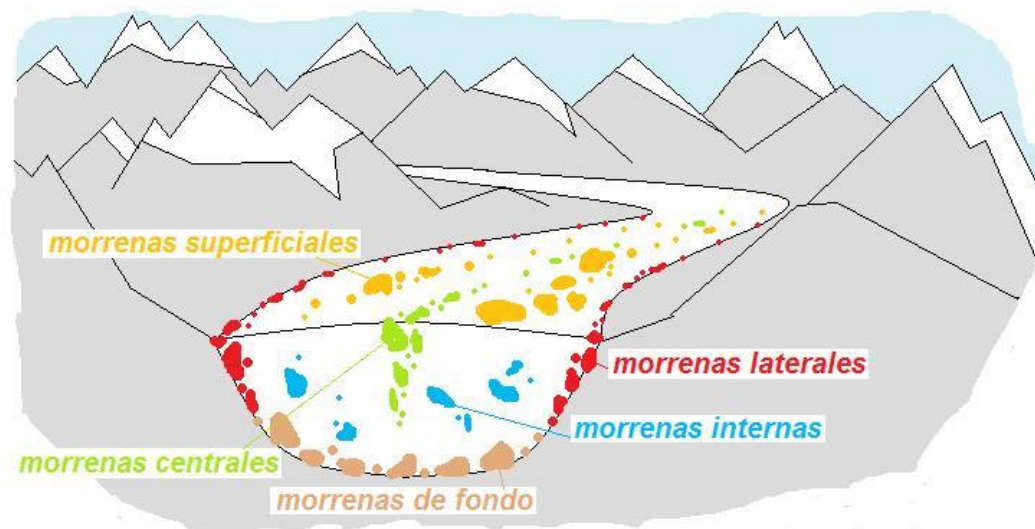
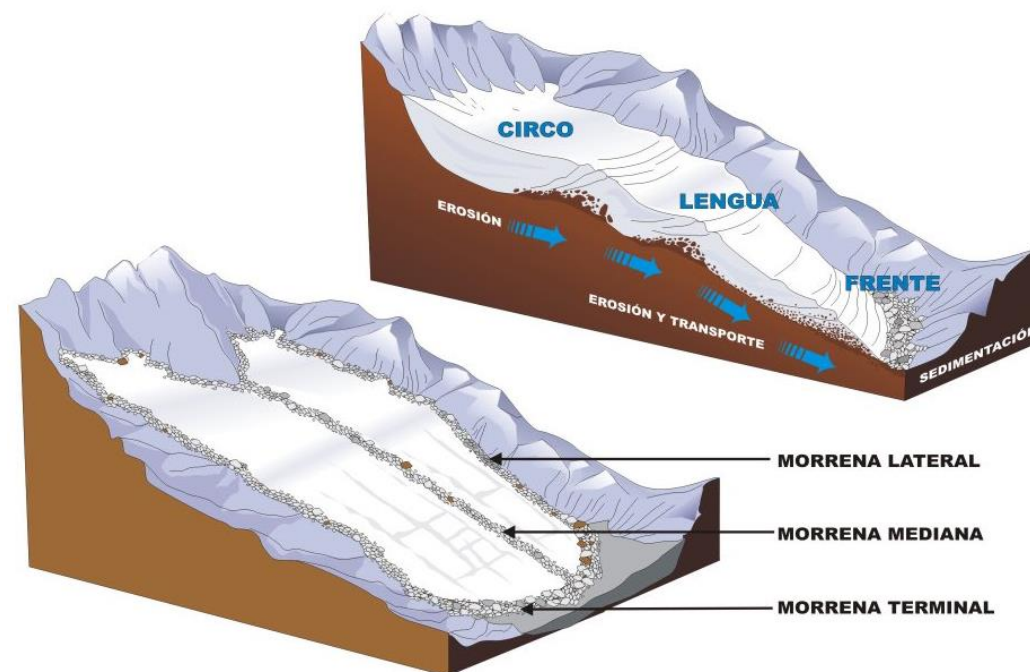
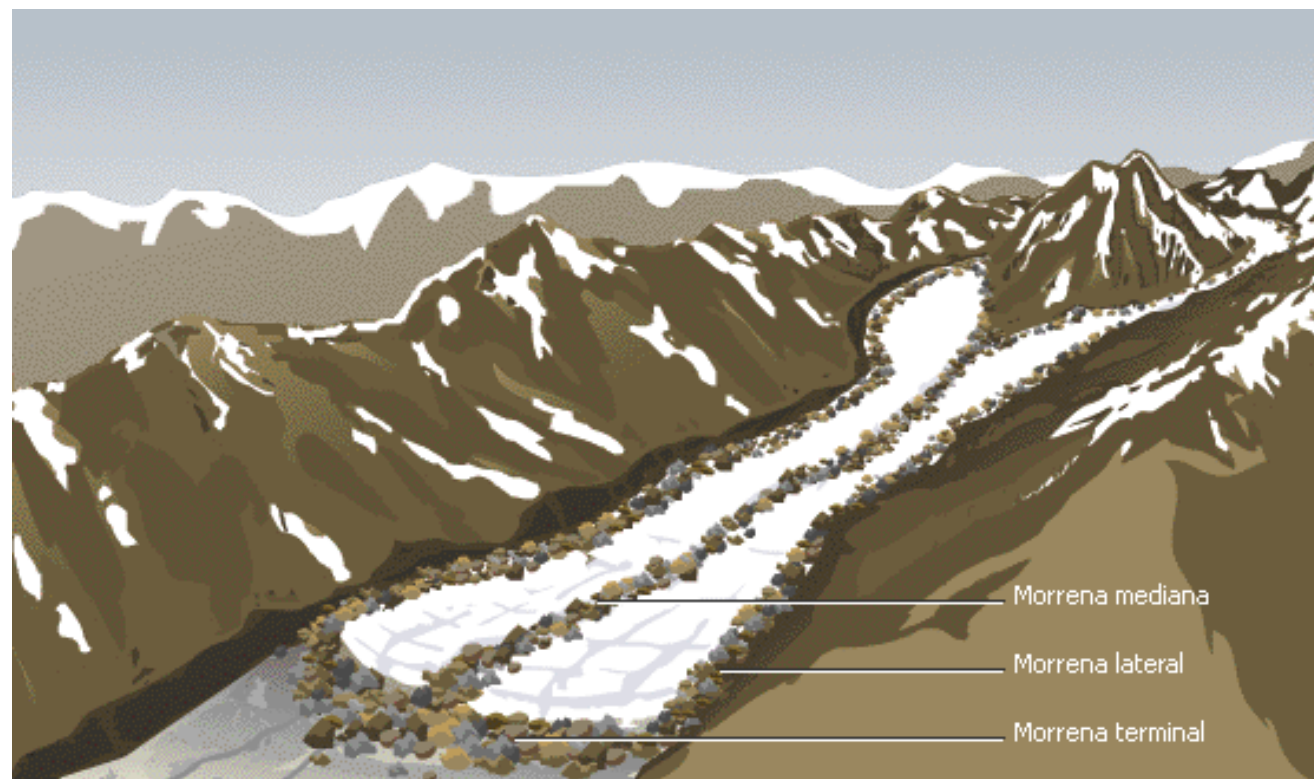
Formación de un valle glaciar



Ejemplos Valle Glaciar

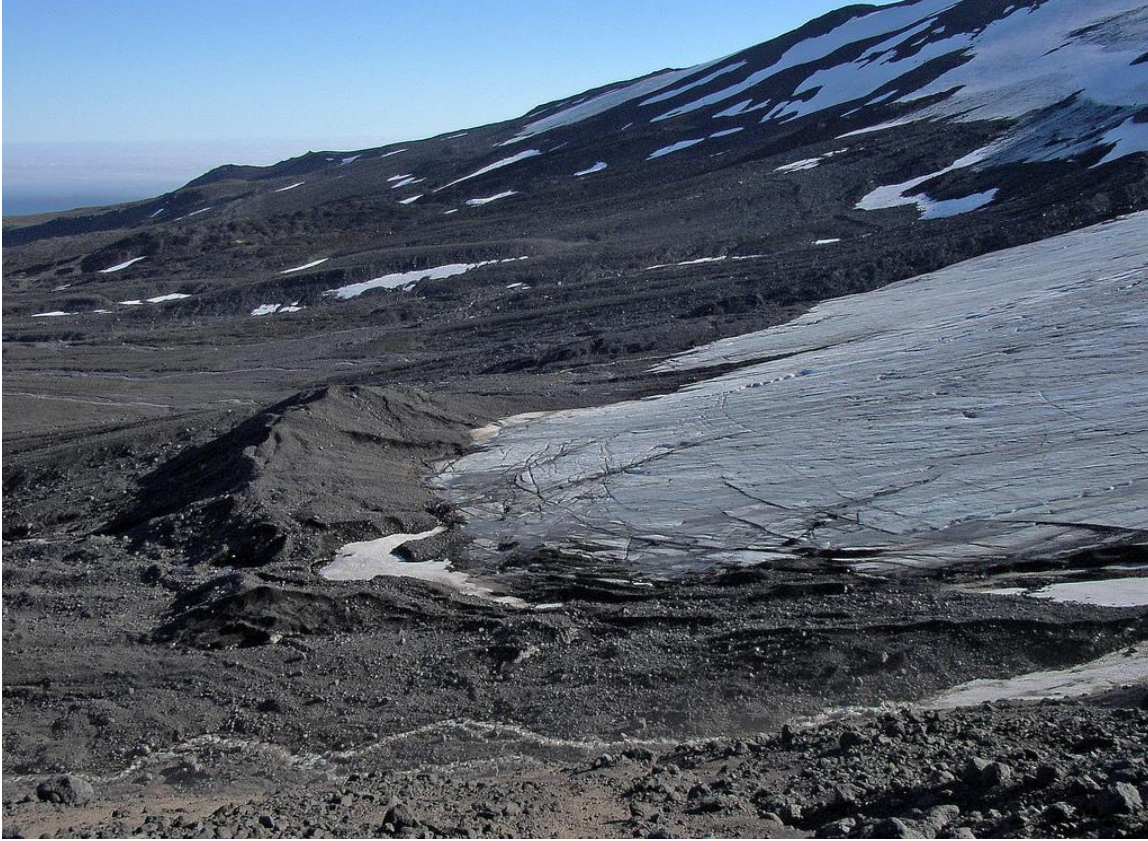


Morrenas



corte transversal de una lengua de glaciar

Morrenas



Morrena Terminal



Morrenas Central y Lateral

Circos glaciares

- Relatively small glaciers which occur at higher elevations in mountainous regions. These occupy hollows or bowl-shaped depressions on sides of mountains



Glaciar de piedemonte

- a valley glacier extends down a valley and then covers a gentle slope beyond the mountain range



Glaciar colgante



GLACIAR EL MORADO

Glaciar de valle



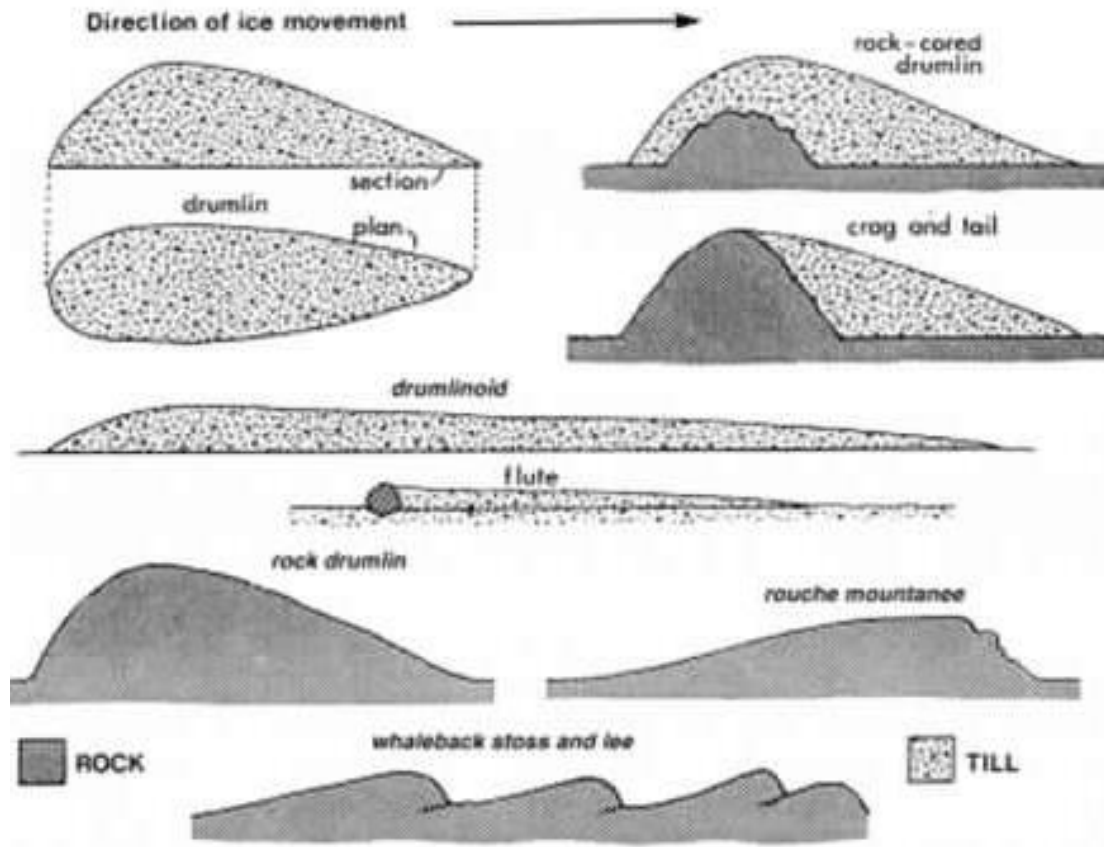
Fiordos

- If a valley glacier extends down to sea level, it may carve a narrow valley into the coastline. These are called ***fjord glaciers***, and the narrow valleys they carve and later become filled with seawater after the ice has melted are ***fjords***.



Drumlins

- elongated asymmetrical drop-shaped hill with its steepest side pointing upstream to the flow of ice and streamlined side (low angle side) pointing in the direction the ice is flowing



Horn



Kettle

- large blocks of ice can be left behind to melt within the impermeable till and can create a depression.



Estrías



Bloques erráticos

- large sediment (e.g. boulder) carried and then dropped by a glacier.



Extras

- <https://youtu.be/hC3VTgIPoGU>
- <https://www.youtube.com/watch?v=ghC-Ut0fW4o>
- <https://www.youtube.com/watch?v=loI584OFVpE>

Referencias

- Chapter 10. Glacial and glaciofluvial landscapes. Fundamentals of
- Geomorphology.
- <https://www.tulane.edu/~sanelson/eens1110/glaciers.htm>

Actividad !