

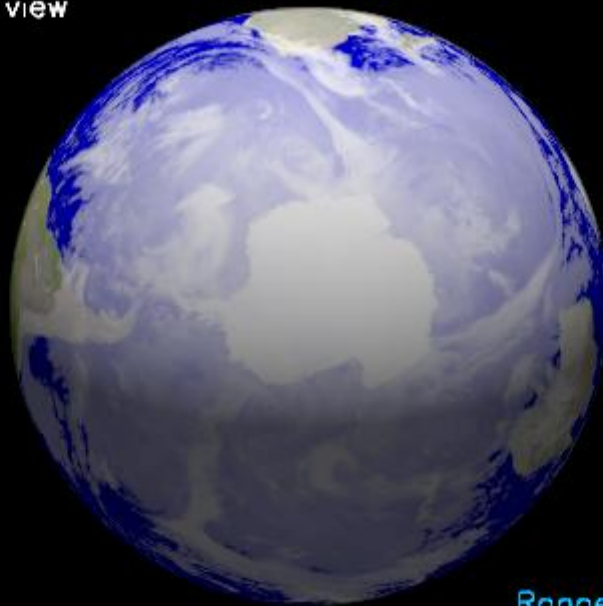
Ambientes Sedimentarios Continental: GLACIARES

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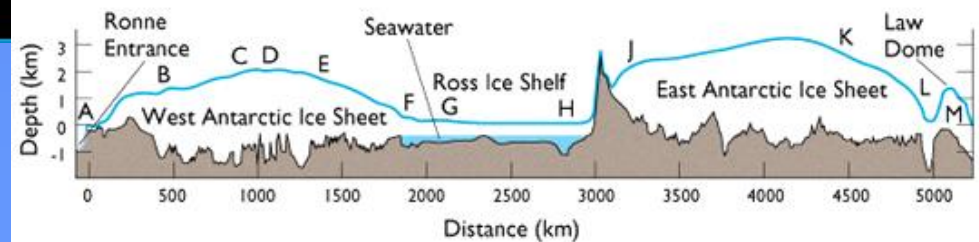
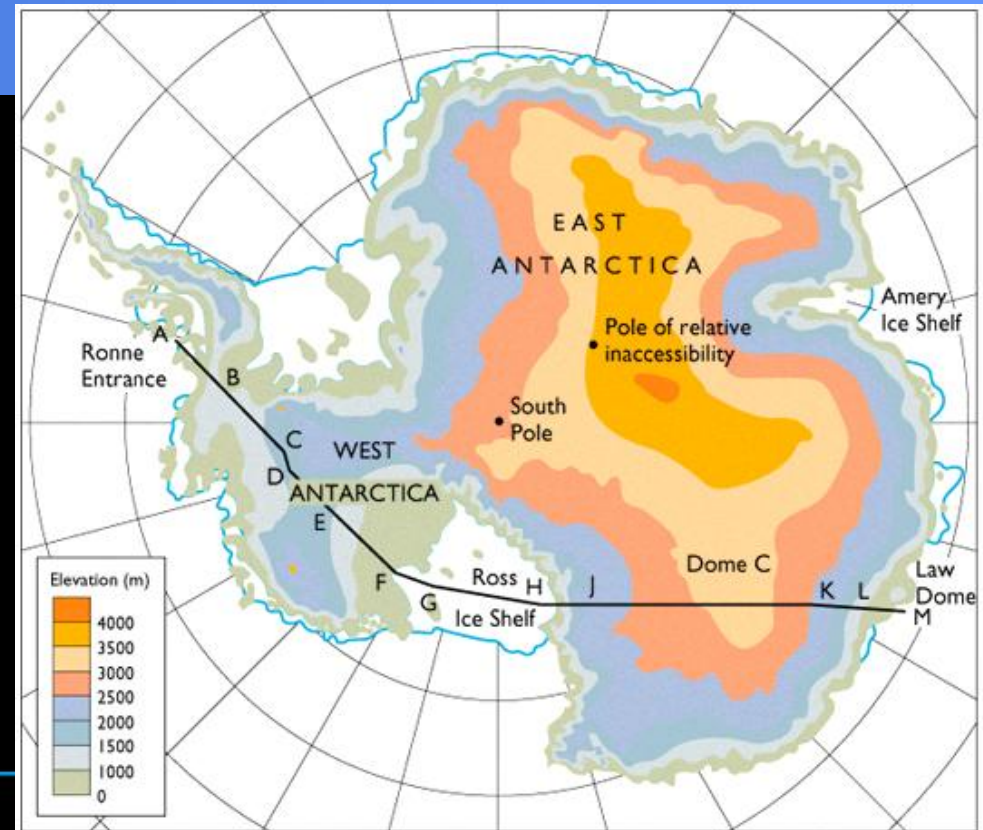
Glaciares: Casquete Antártico

Looking up on The Earth
18 Dec 2004 10:20 GMT
4.58 deg field of view



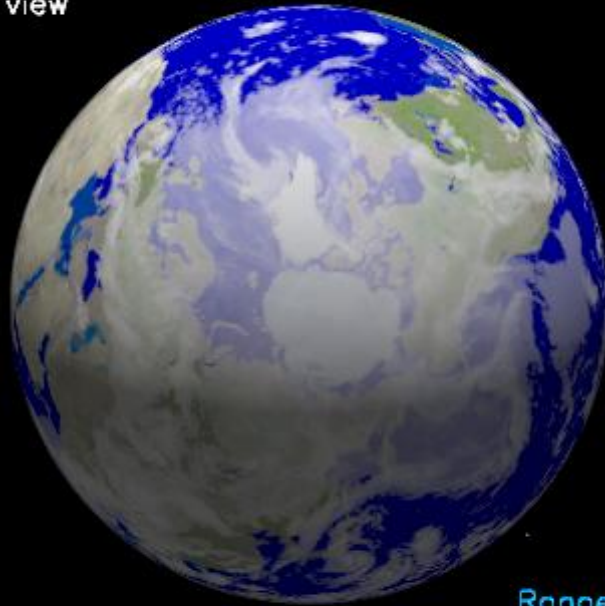
Solar System Simulator

Range
Phase
Diameter



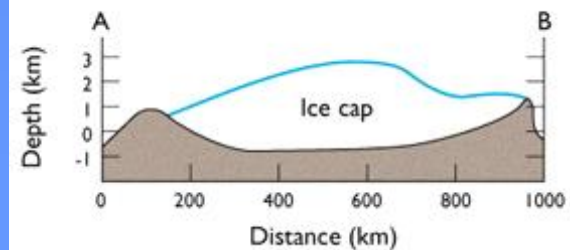
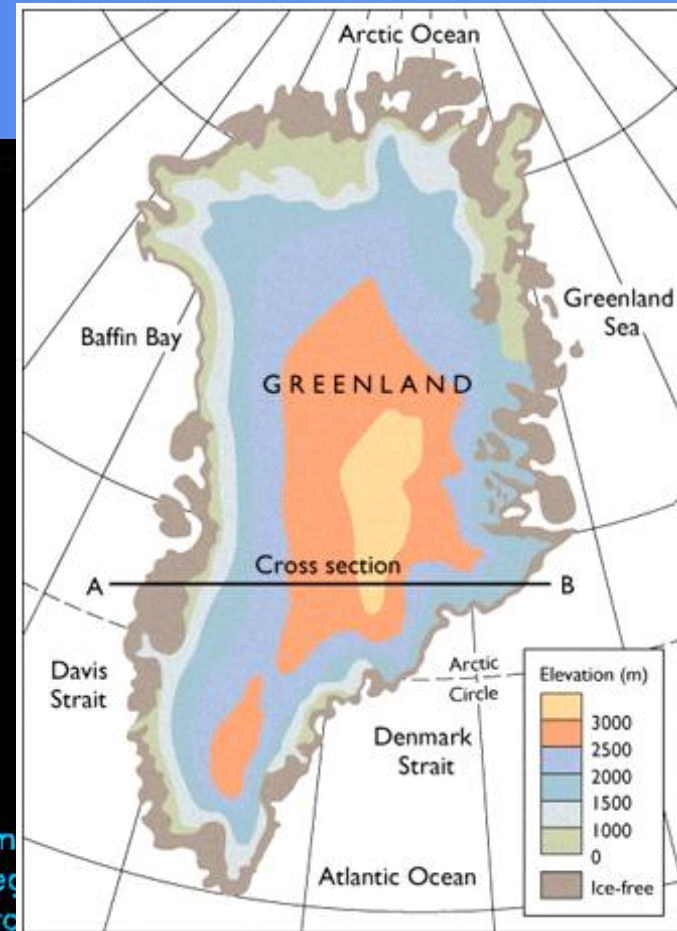
Glaciares: Casquete Ártico

Looking down on The Earth
18 Jul 2004 15:20 GMT
4.58 deg field of view



Solar System Simulator

	Earth	
Range	318,907	km
Phase	69.1	deg
Diameter	2.29	deg arc

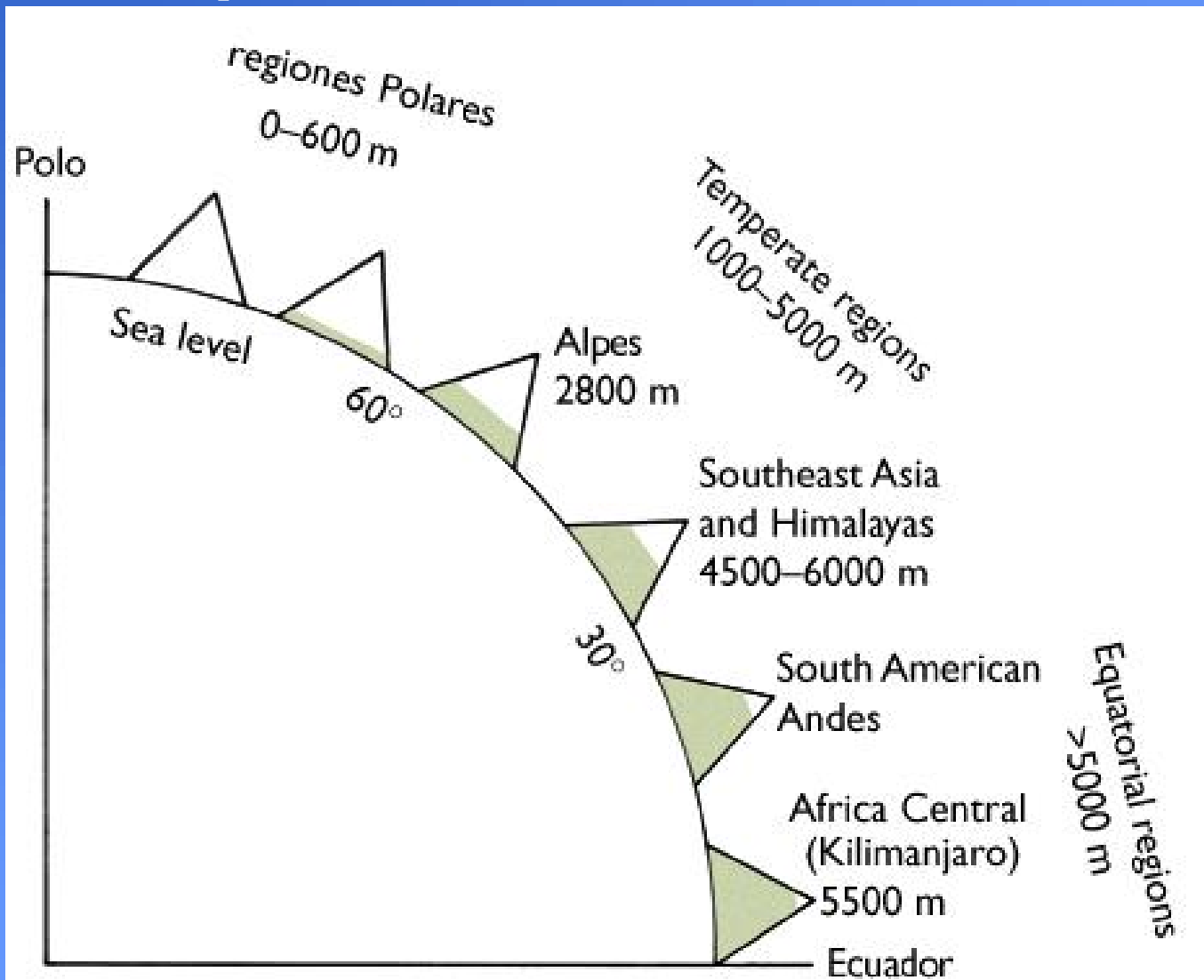


Glaciares: Casquetes hace 18,000 años

Pleistocene 18,000 years ago



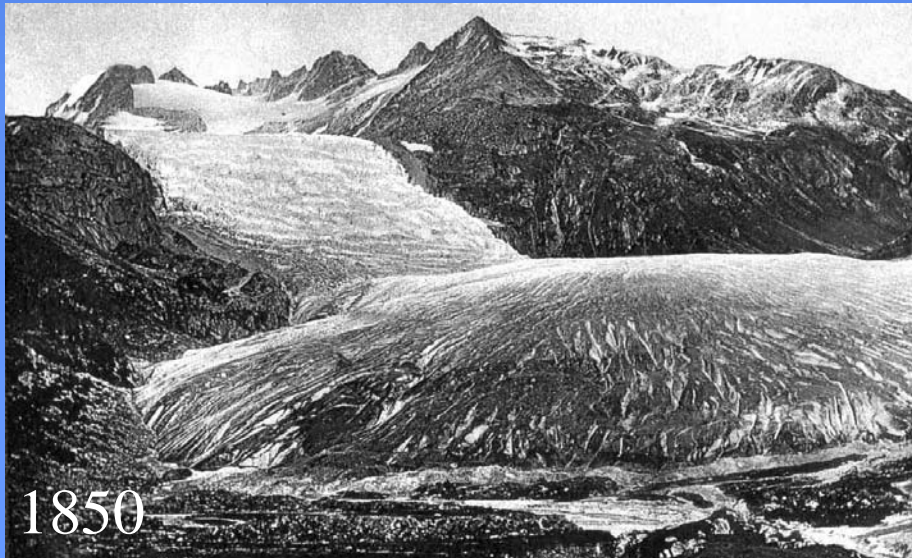
Equilibrio: altitud de la línea de la nieve



Altura de línea de las nieves con respecto a la latitud

Línea de las nieves = línea arriba de la cual no hay deshielo en el verano

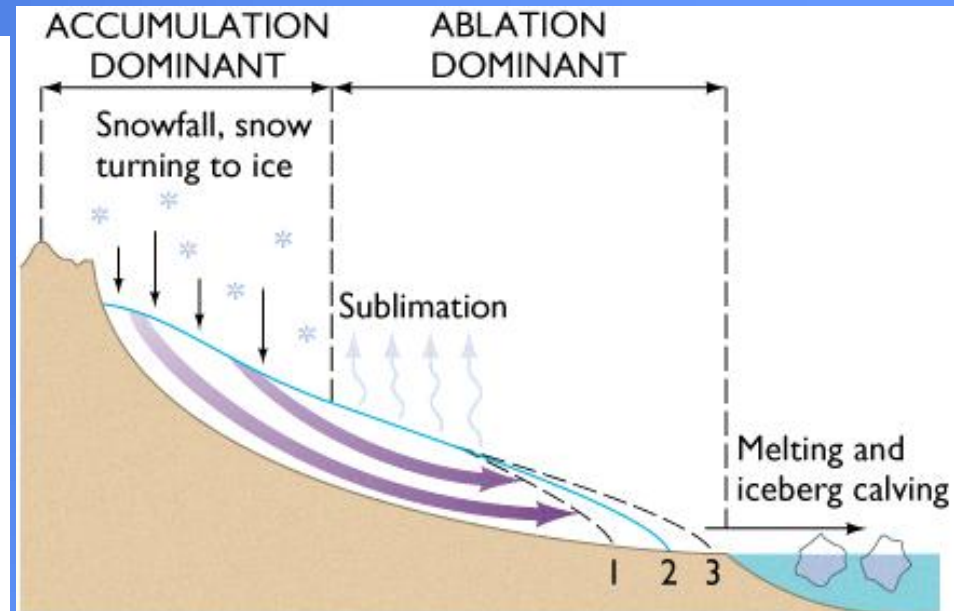
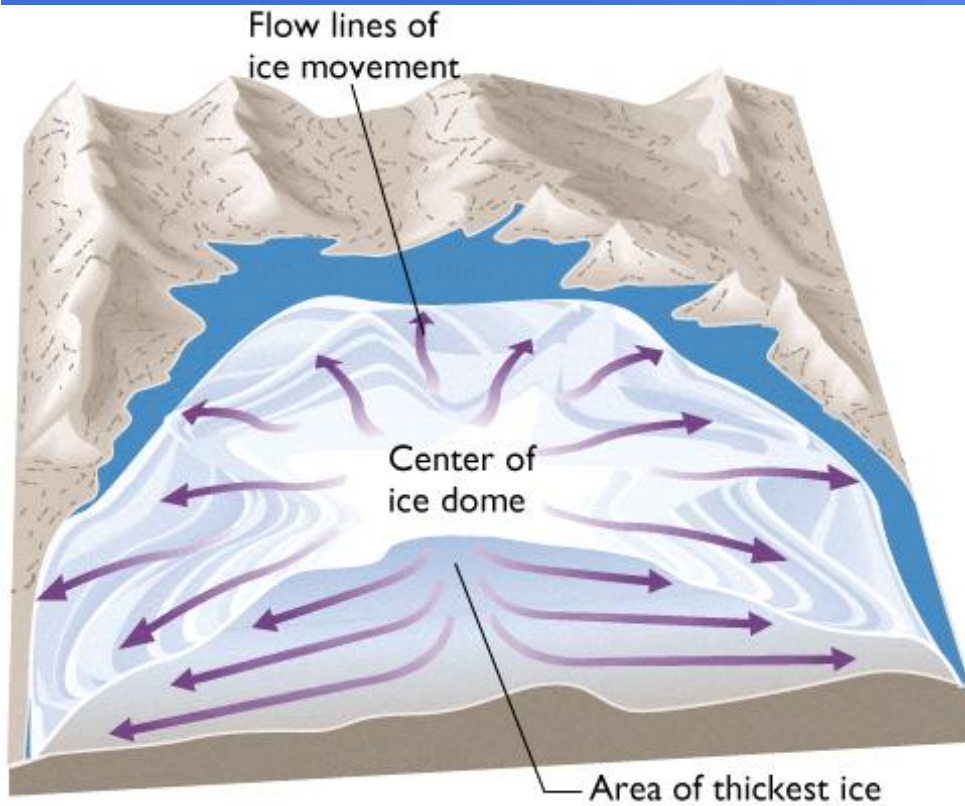
Glaciares: Alpinos



1850



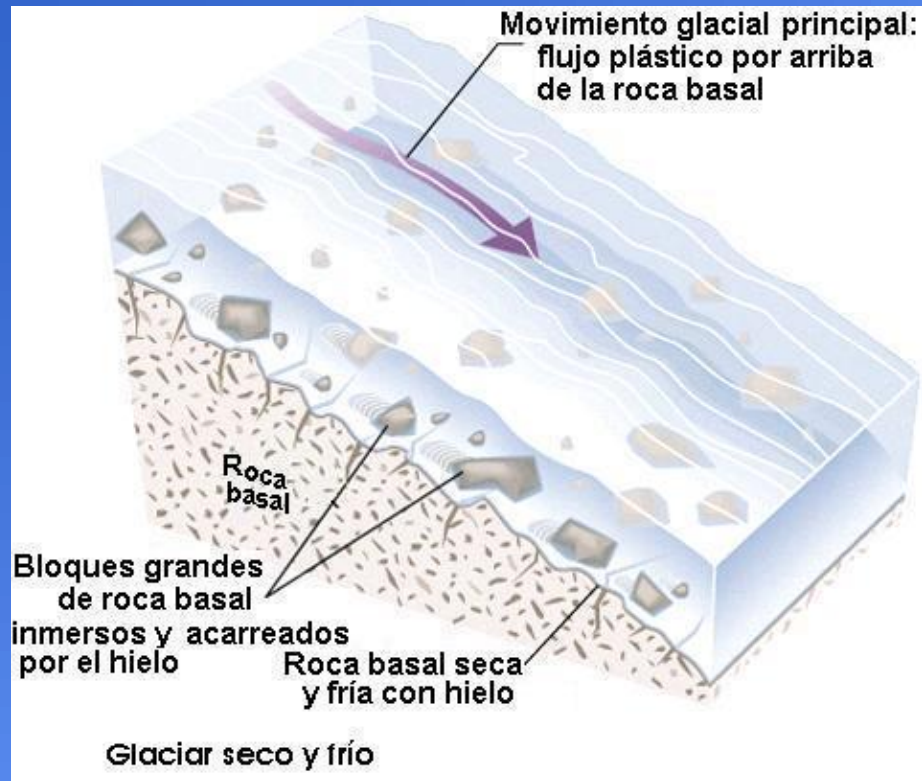
Flujo y movimiento del hielo glacial



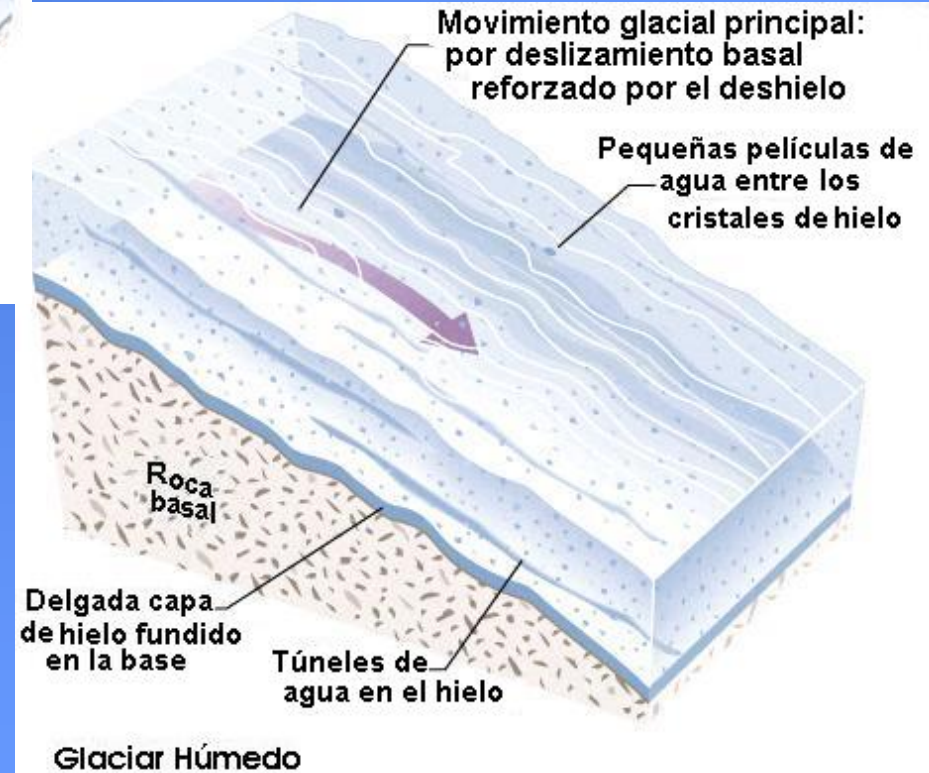
GLACIAL BUDGET

- 1 Accumulation < ablation
- 2 Accumulation = ablation
- 3 Accumulation > ablation

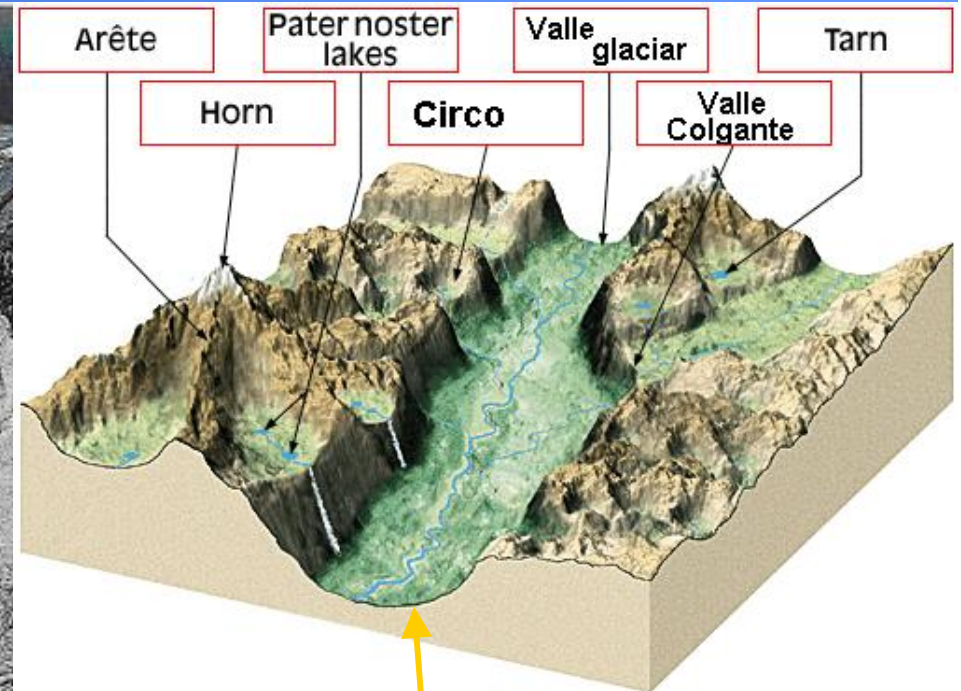
Glaciares secos con acumulación > ablación



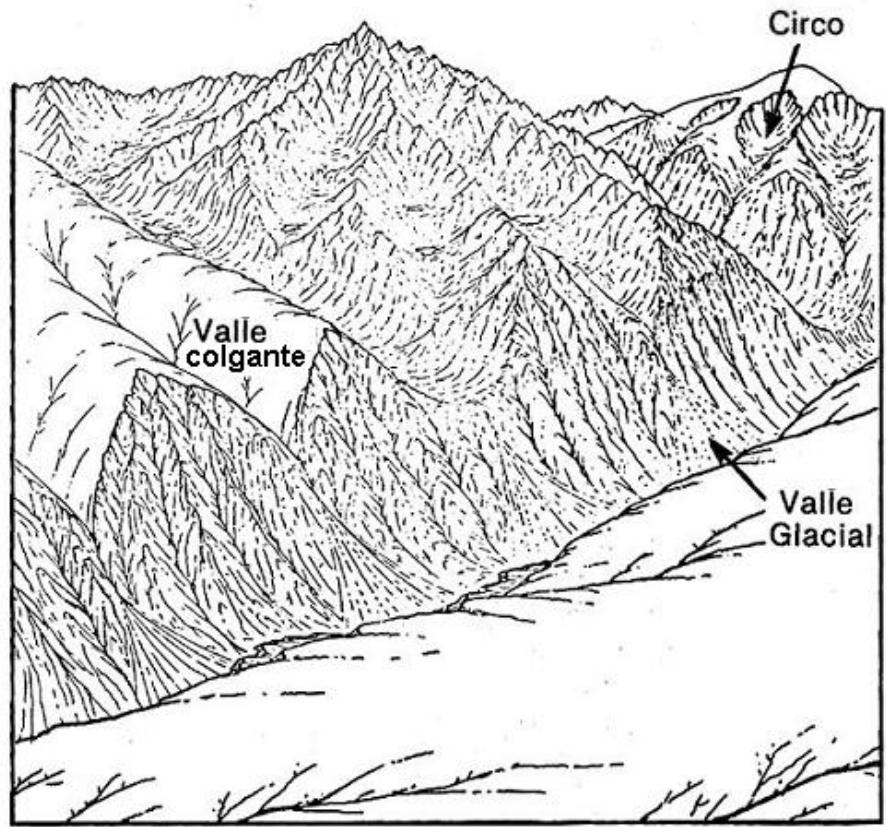
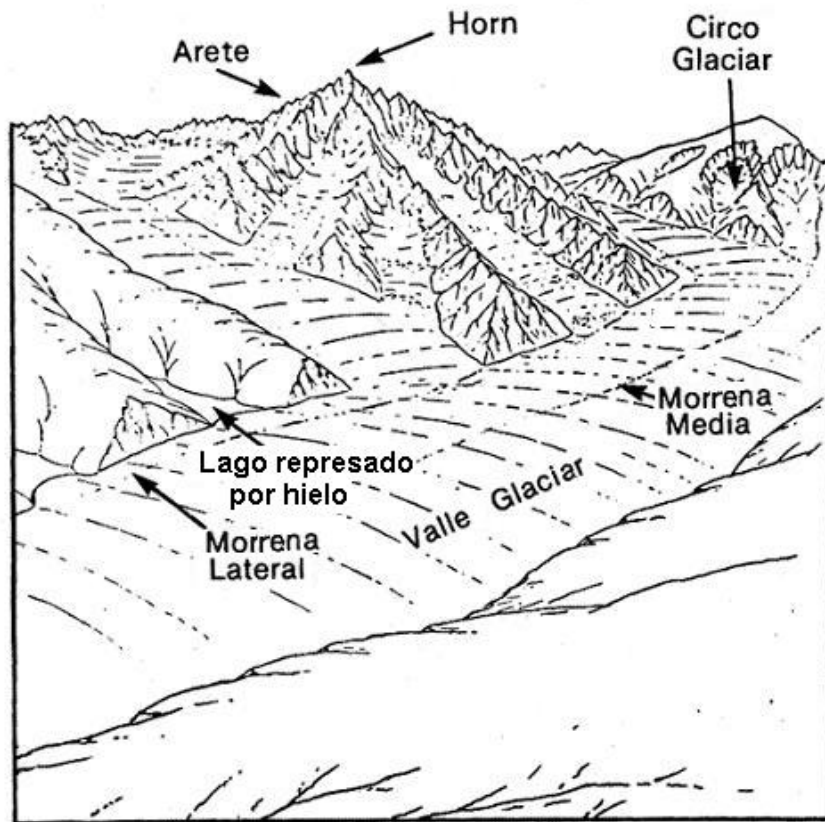
Glaciares húmedos ablación (y deshielo) > acumulación



Glaciares: formas erosivas



Valles glaciares con
forma de U



Glaciares: depósito Hielo

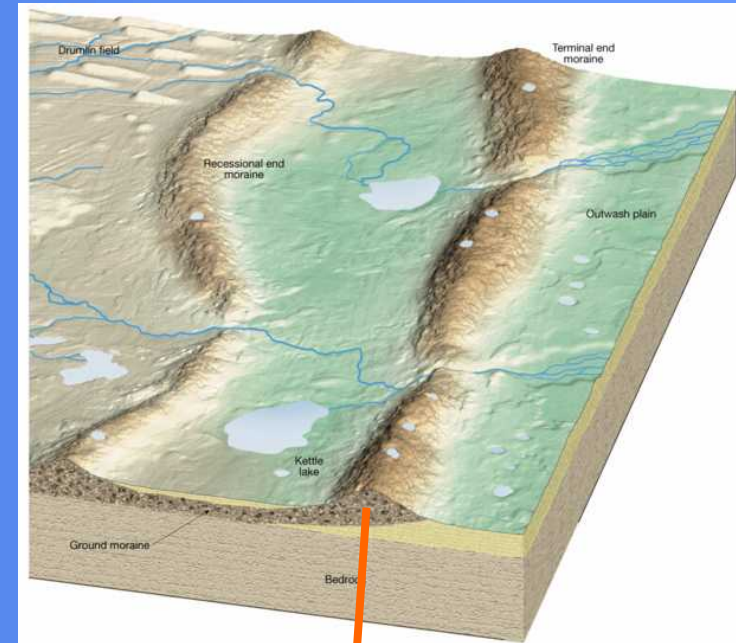


Glaciares: depósito



Glaciares: depósito

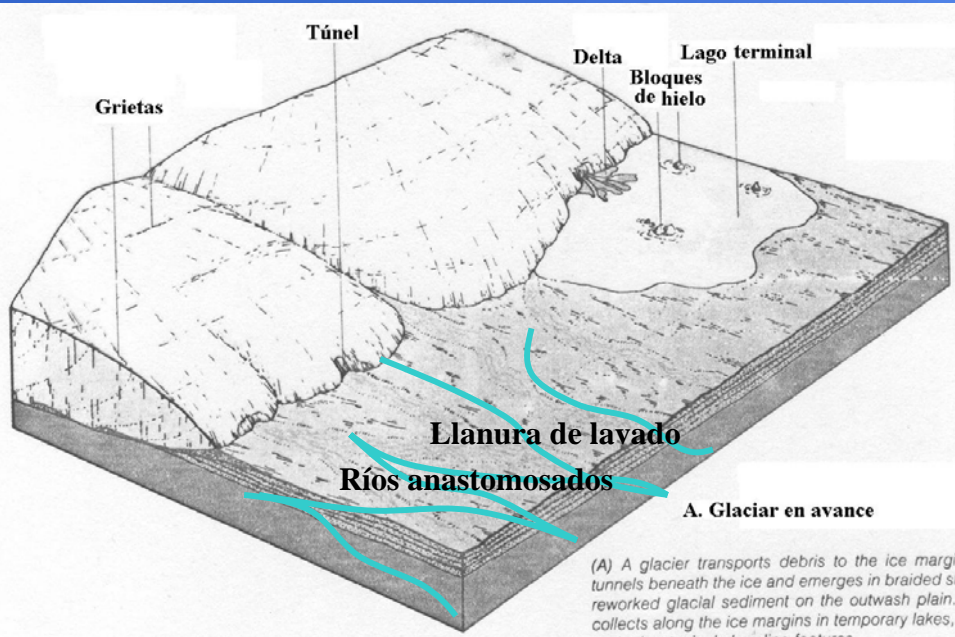
Morrenas: Terminales, laterales, recesivas



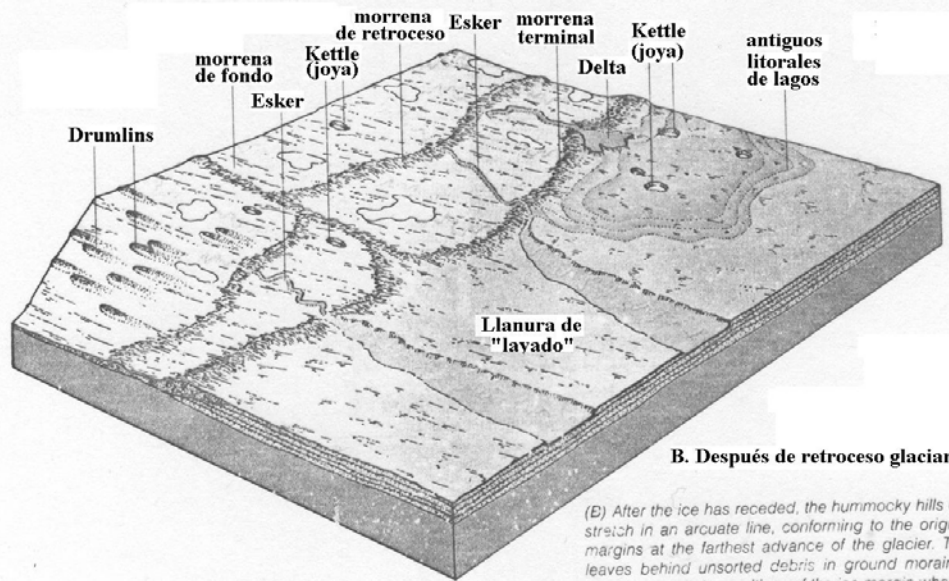
Tills (sedimento) y Tillitas (roca): son conglomerados
Mal seleccionados
Poco redondeados
No estratificados (la matriz puede estar laminada)
Sin fósiles



Glaciares: deposito



(A) A glacier transports debris to the ice margins. Meltwater carves tunnels beneath the ice and emerges in braided streams, which deposit reworked glacial sediment on the outwash plain. In places, meltwater collects along the ice margins in temporary lakes, which develop deltas and other typical shoreline features.

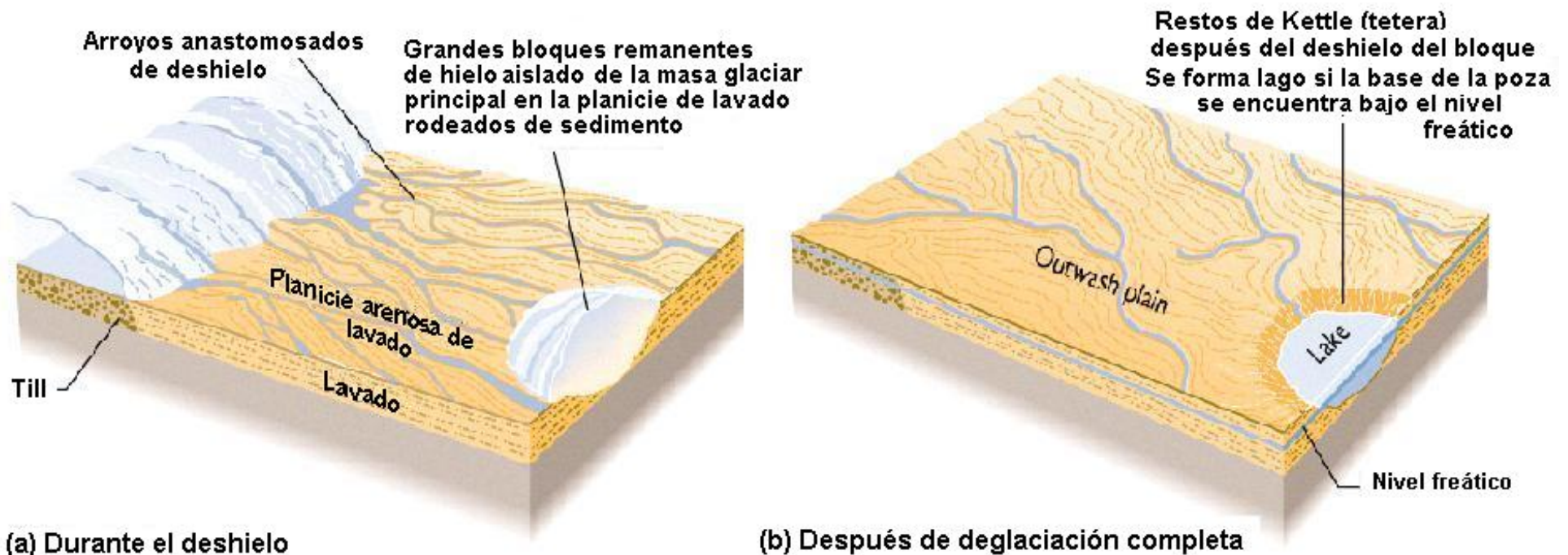


(B) After the ice has receded, the hummocky hills of a terminal moraine stretch in an arcuate line, conforming to the original shape of the ice margins at the farthest advance of the glacier. The retreating glacier leaves behind unsorted debris in ground moraines, and recessional moraines mark the positions of the ice margin where the glacier paused during its retreat. Hills of ground moraine can be reshaped by a subsequent advance of ice, forming drumlins. Sinuous eskers remain where sediment was deposited by subglacial streams, and sediment reworked by meltwater forms outwash-plain and lake deposits. Where ice blocks were stranded by the receding glacier and partly buried under debris,



Glaciares: depósitos periglacial y fluvioglacial

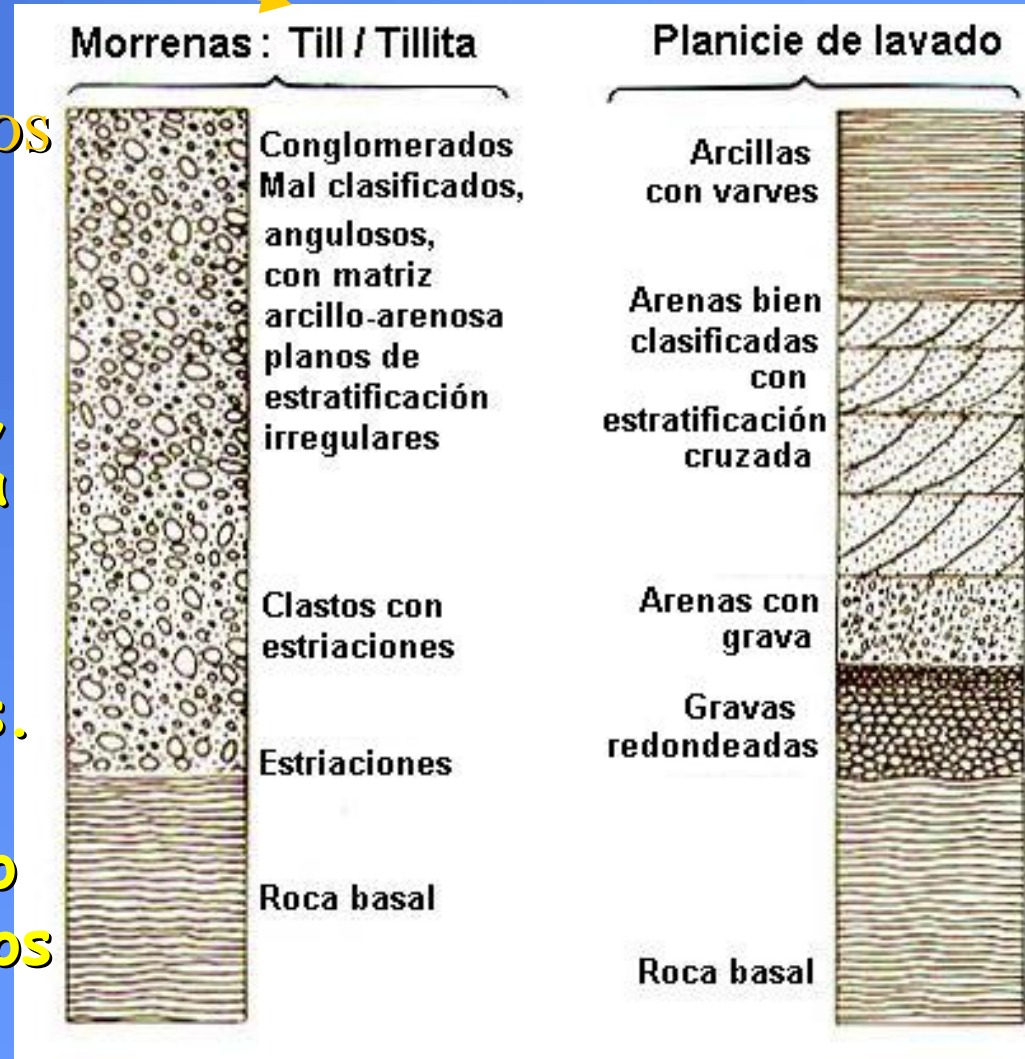
Llanura de lavado (outwash plain), ríos y lagos de deshielo



Depósitos glaciares vs periglacial y fluvioglacial

Llanura de inundación ó lavado (outwash plain): ríos anastomosados y lagos de deshielo:

Sedimentos estratificados, de gravo-arenosos a arena y arcilla. Estratificación cruzada, medianamente clasificados y redondeados. En lagos sedimento bien clasificado, fino, formando "varves", con fósiles propios de lagos.



Tillitas: diversas imágenes



Acercamientos de afloramientos

observa los fragmentos grandes y angulosos y de diversos tamaños en la matriz fina



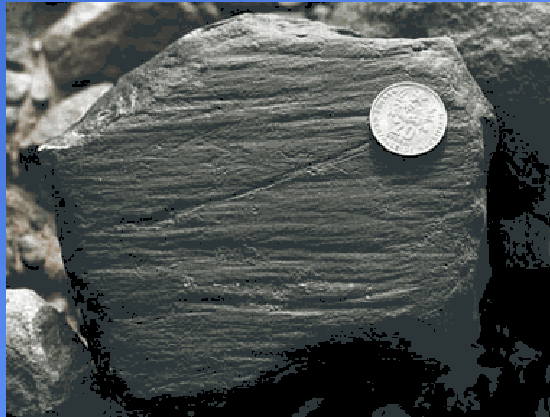
Afloramiento en Hunan

Till: depósito reciente





Tillitas con sus estrías glaciares



**Arcillas
"varvadas"**

