

# Permafrost landforms 2



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**Rock glaciers**







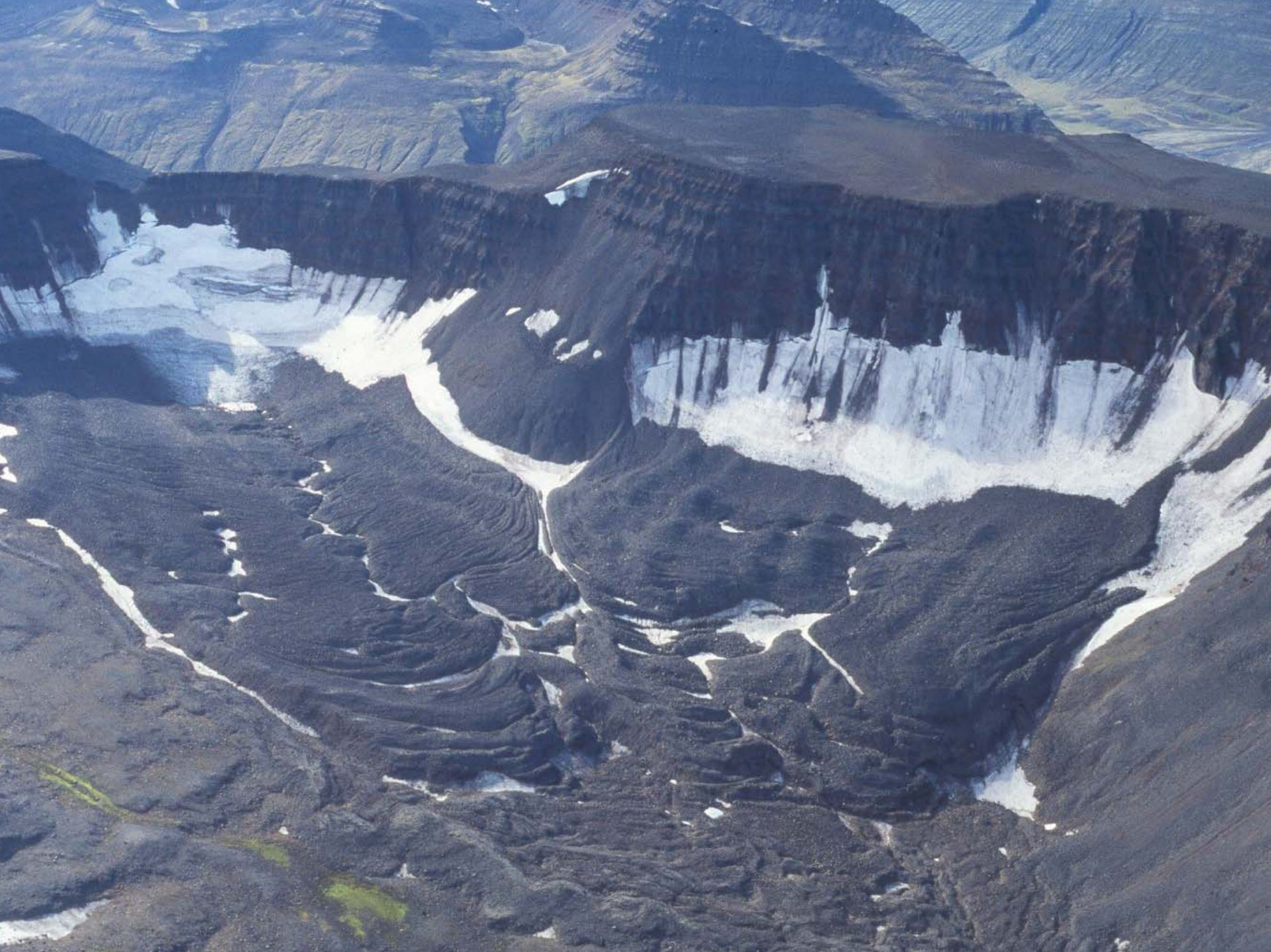


**Rock glaciers**





















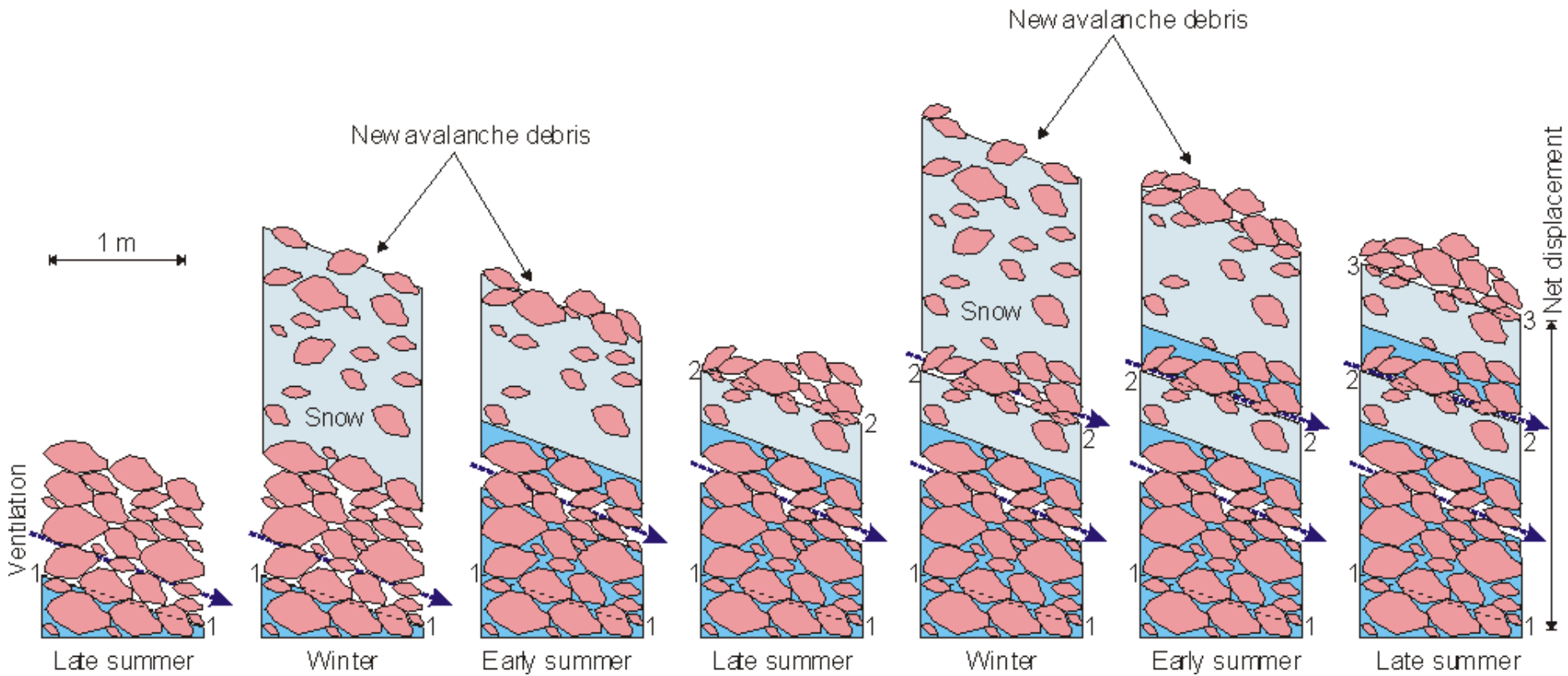
## Importance of avalanches







# Displacement of active layer and permafrost caused by avalanche-debris accumulation











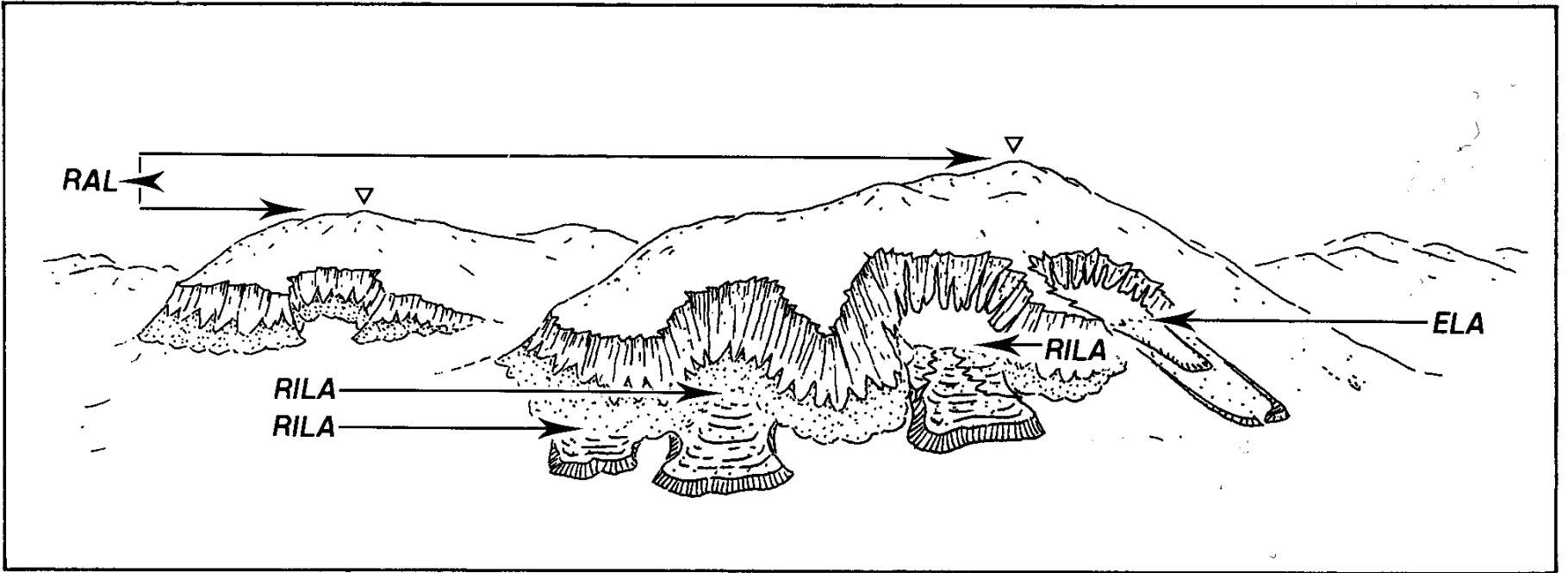














**The climatic significance of rock glaciers**



1070 m

920 m

720 m

ELALIA

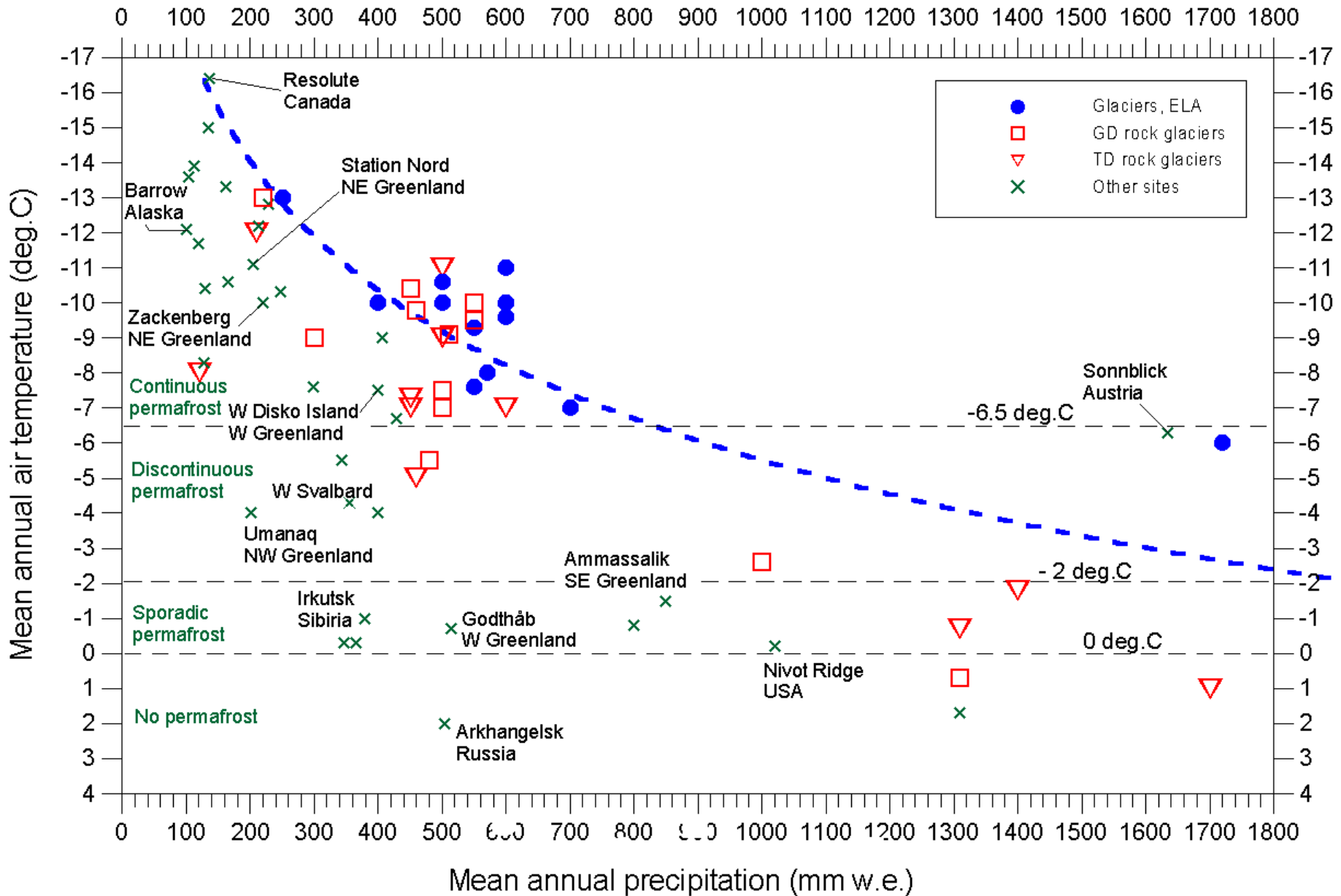
670 m

650 m

RILA

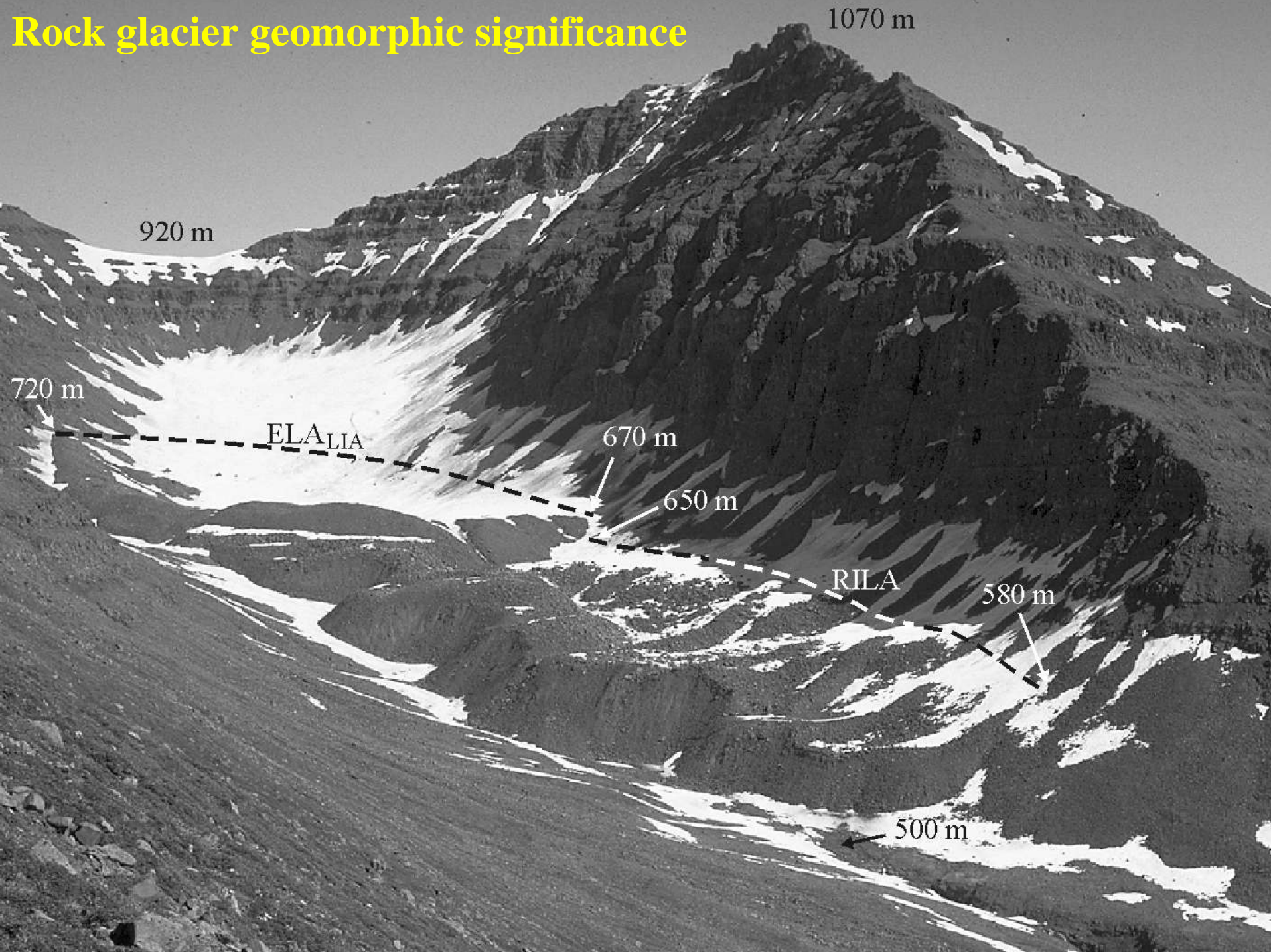
580 m

500 m





# Rock glacier geomorphic significance



1070 m

920 m

720 m

ELALIA

670 m

650 m

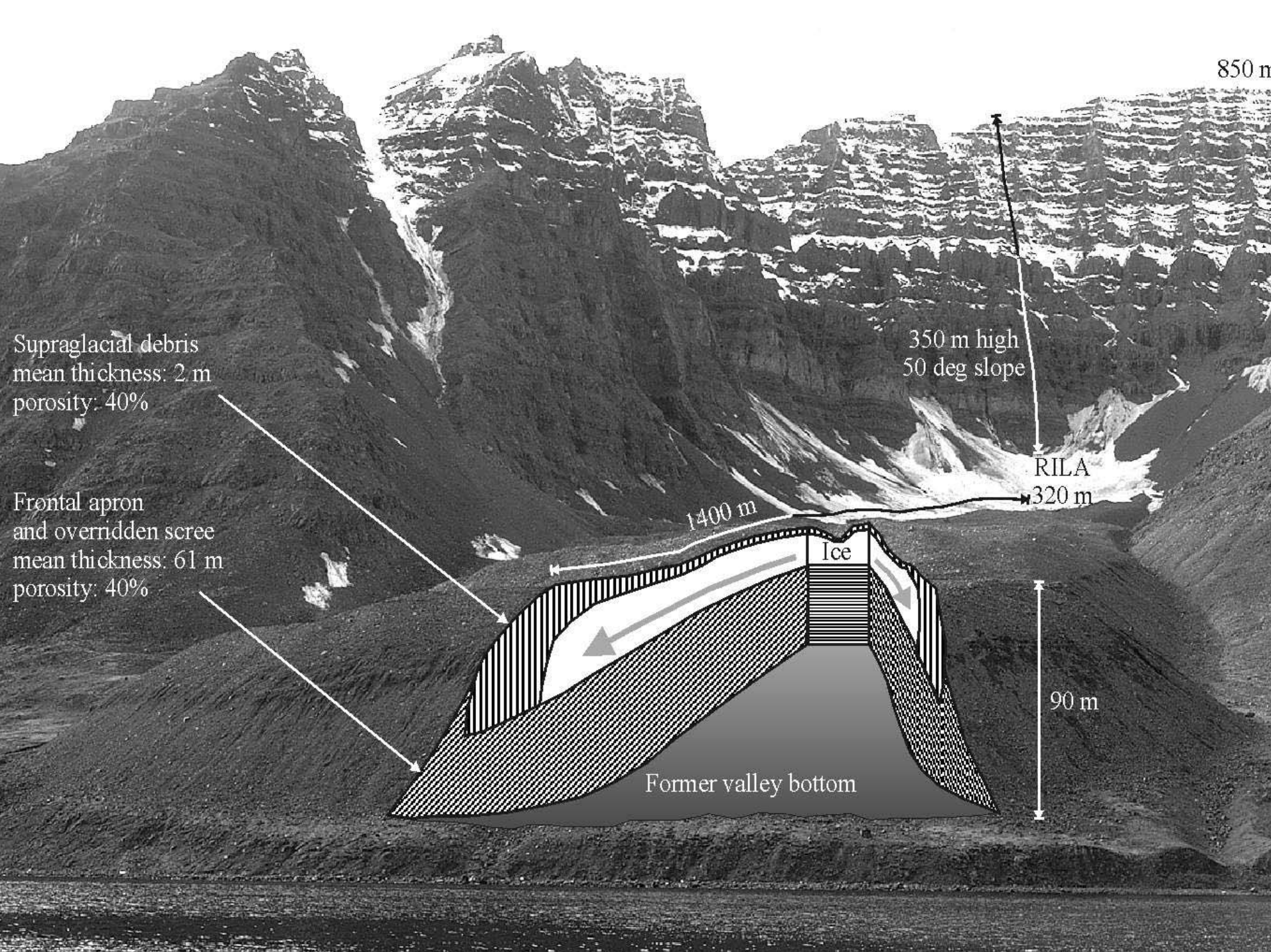
RILA

580 m

500 m







850 m

Supraglacial debris  
mean thickness: 2 m  
porosity: 40%

Frontal apron  
and overridden scree  
mean thickness: 61 m  
porosity: 40%

350 m high  
50 deg slope

RILA  
320 m

1400 m

Ice

Former valley bottom

90 m

