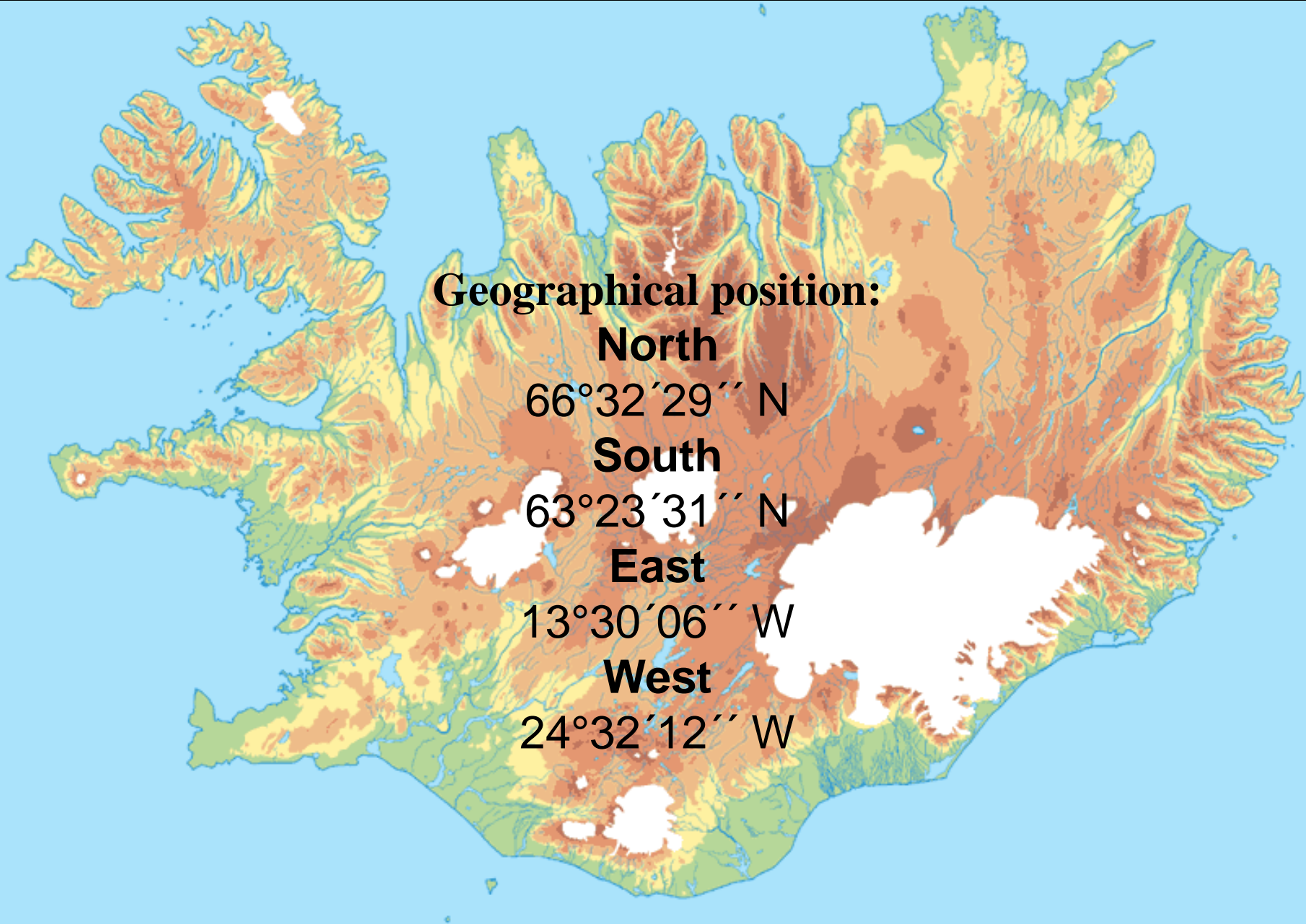


Landforms in Iceland



Landforms in Iceland

1. Geological and climatic background
2. Volcanic landforms
3. Glacial landforms
4. Periglacial landforms



Geographical position:

North

66°32'29'' N

South

63°23'31'' N

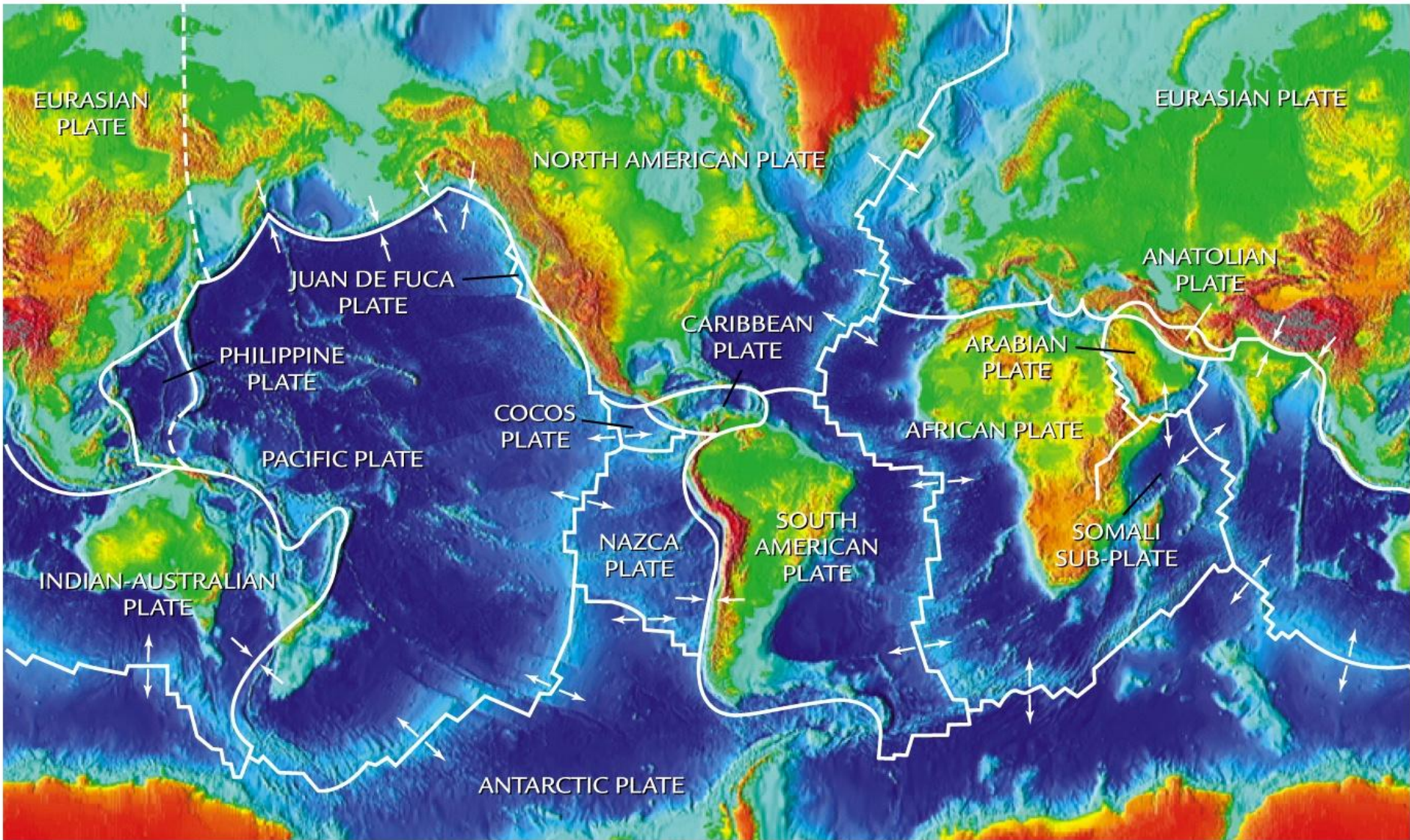
East

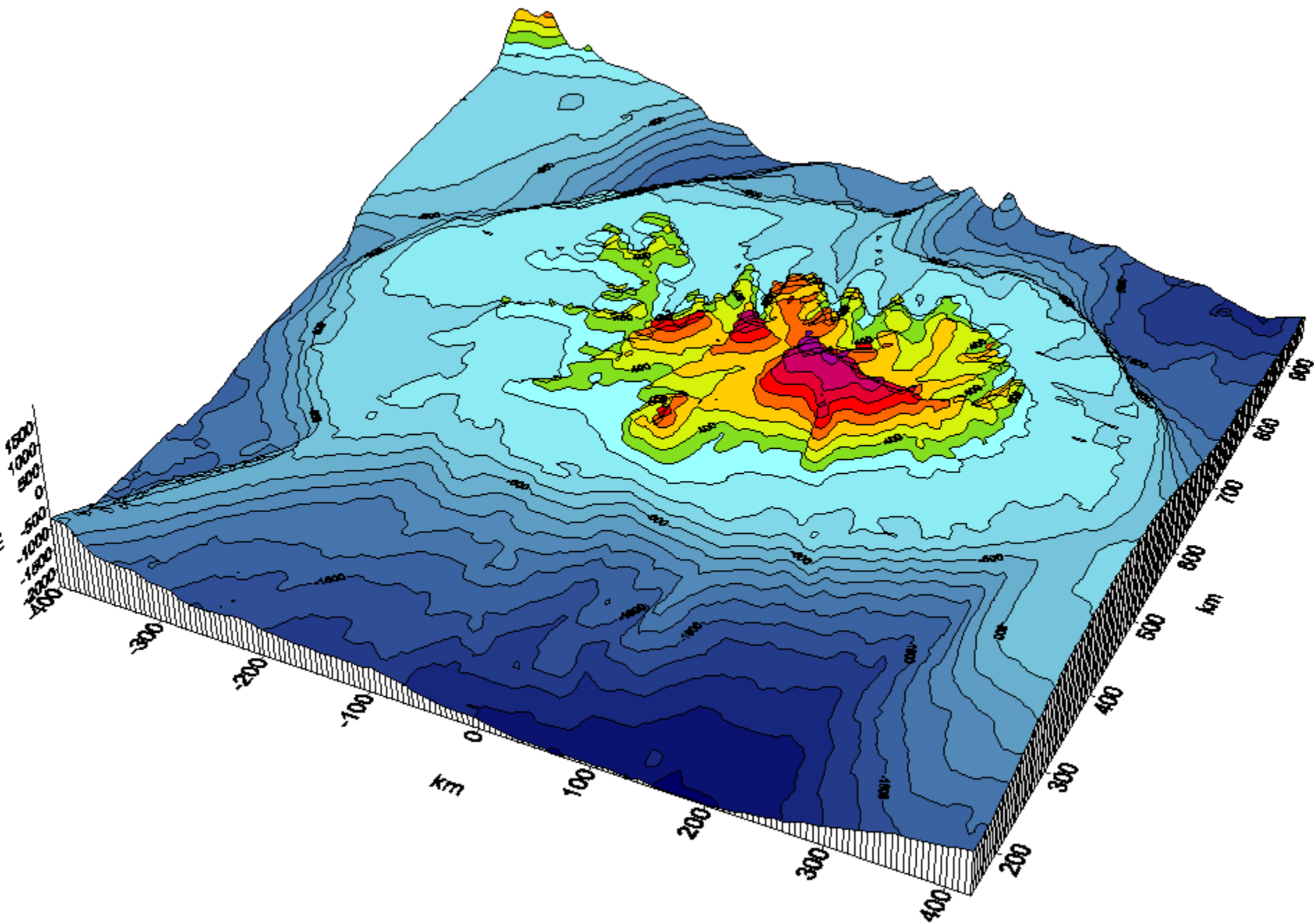
13°30'06'' W

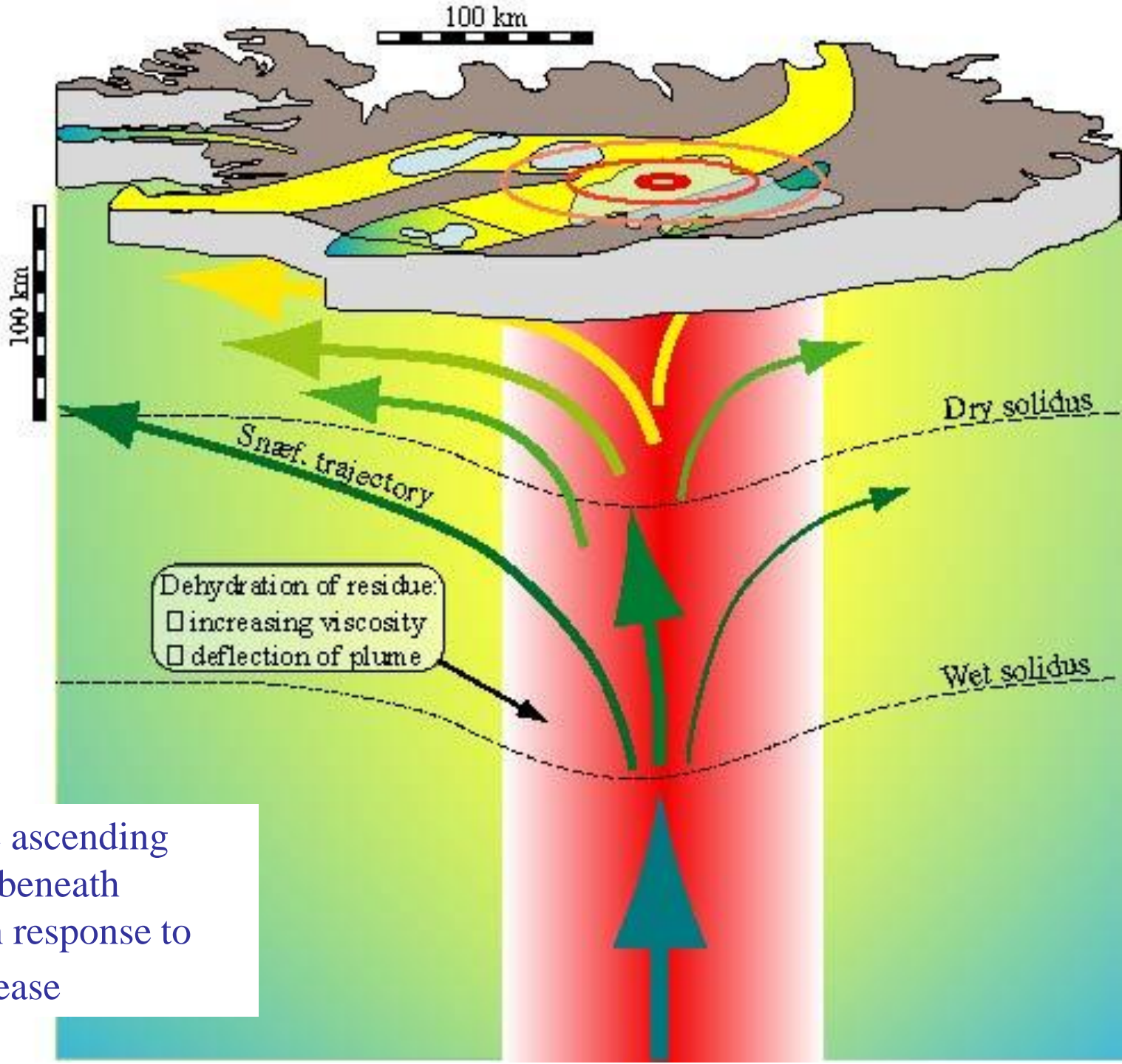
West

24°32'12'' W

Geological background



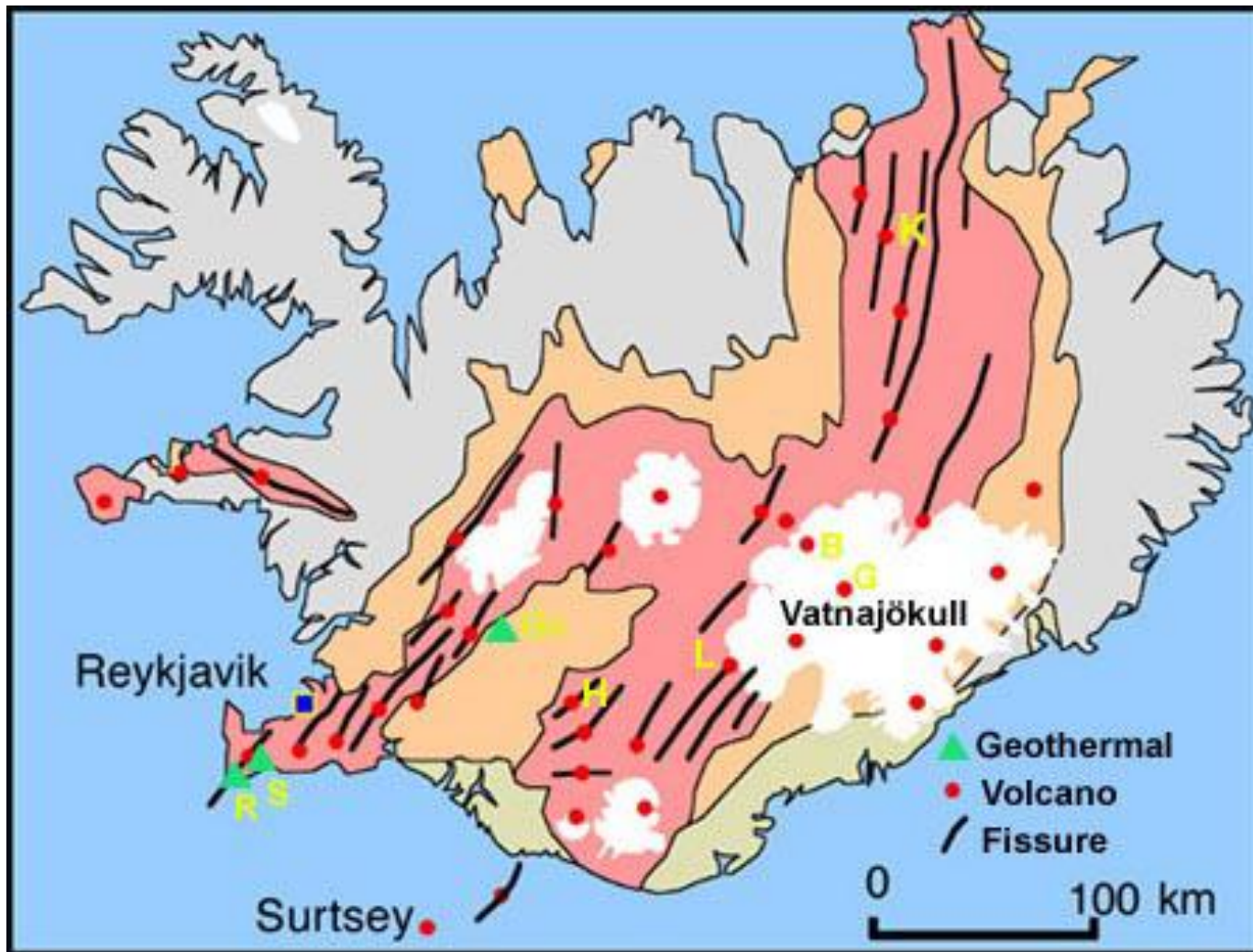




Hot plume; The ascending mantle column beneath Iceland melts in response to the pressure release







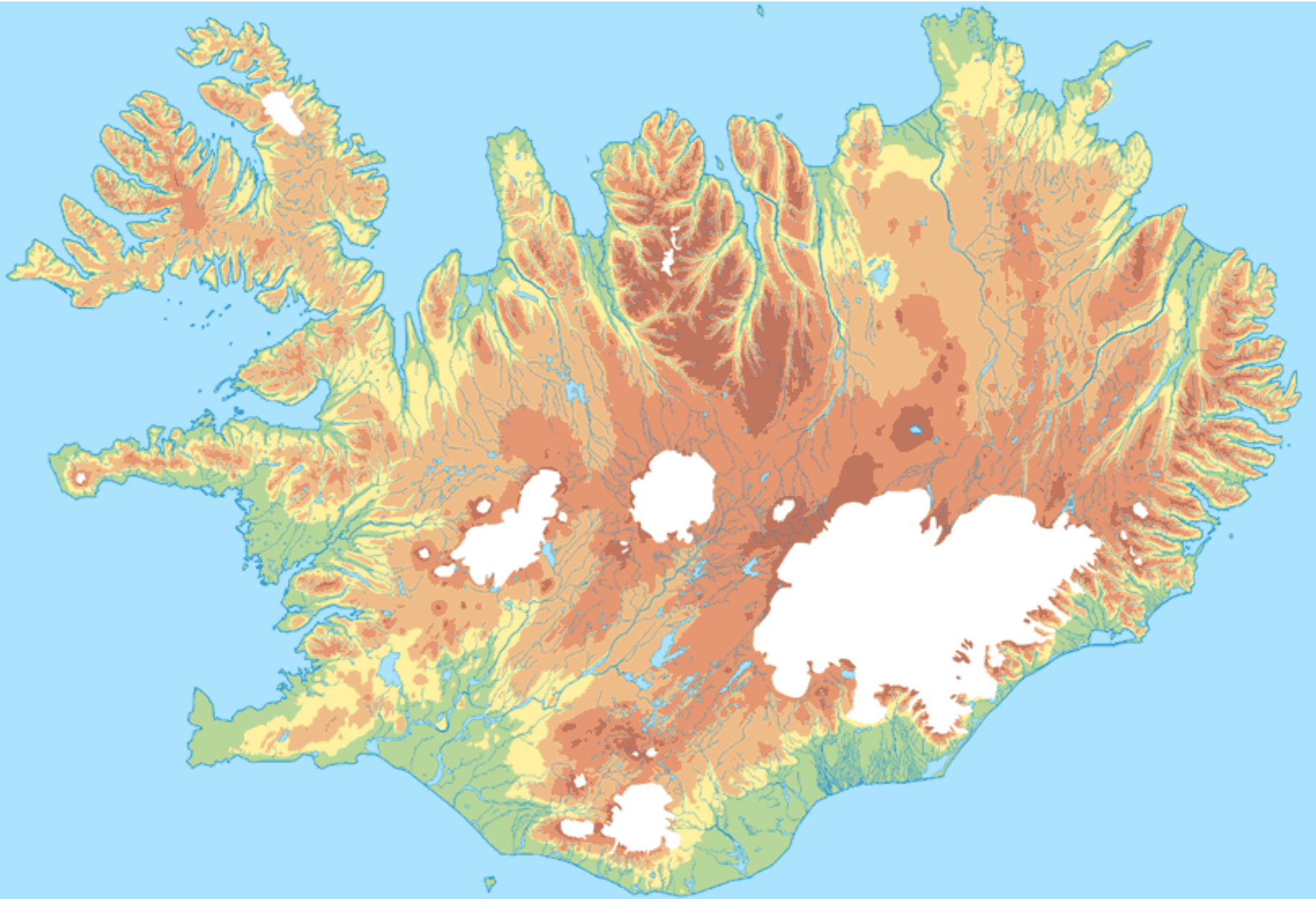
Historically active volcanoes, fissures related to rifting, geothermal systems, and basic and intermediate lavas and associated sediments less than 700,000 years old (pink). The younger volcanism and rifting are confined to the active volcanic zone (northern, western, eastern) and three off-ridge areas. High-temperature geothermal systems ($>200^{\circ}\text{C}$) like Svartsengi and Reykjanes are associated with the active volcanic zone. Orange and gray indicate progressively older igneous rocks and associated sediments. Low-temperature geothermal systems ($<150^{\circ}\text{C}$) are found on the flanks of the active volcanic zone in older rocks. The white areas are glaciers and ice caps.

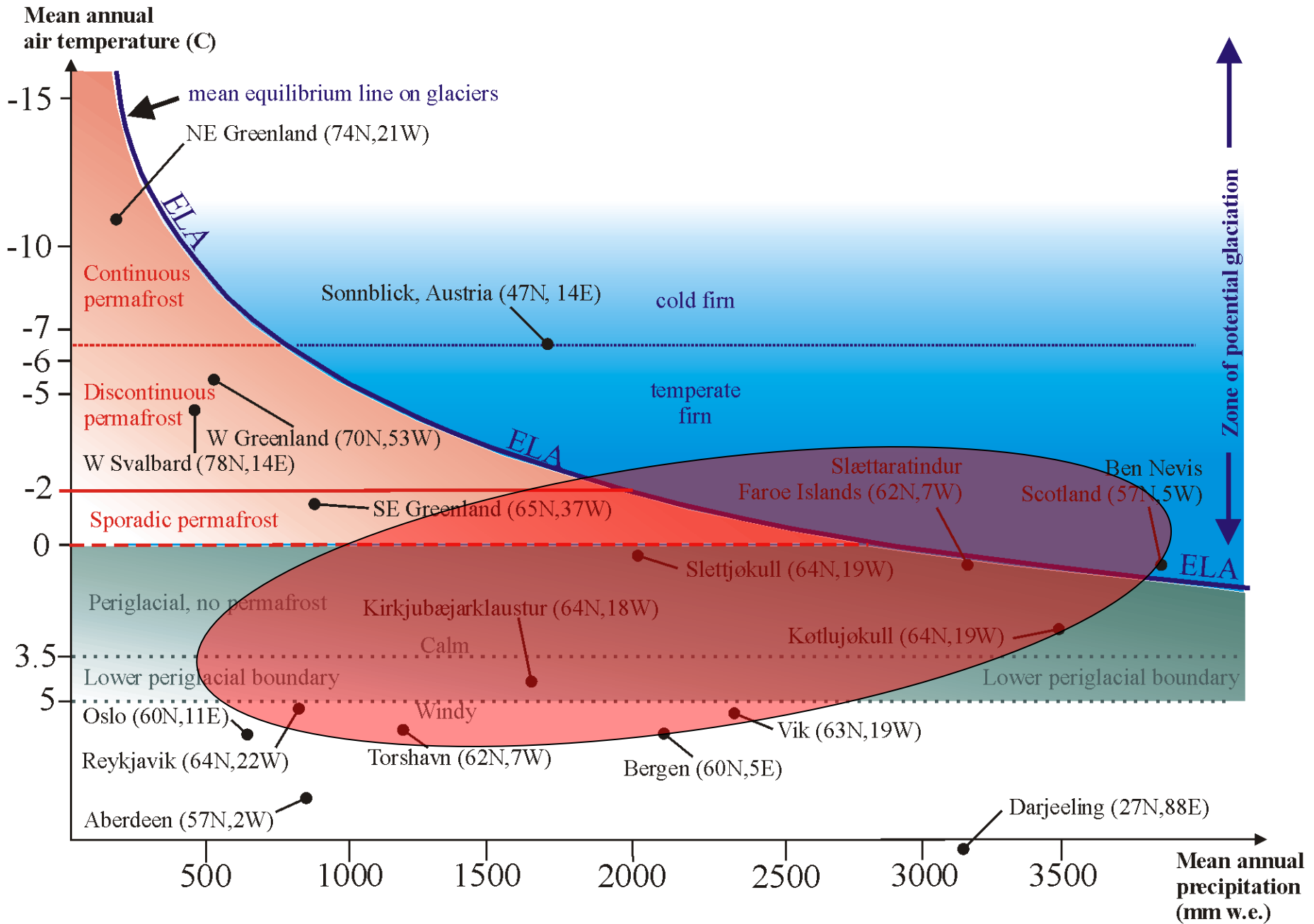


Eyjafjallajökull eruption March-April 2010



Topography and climate



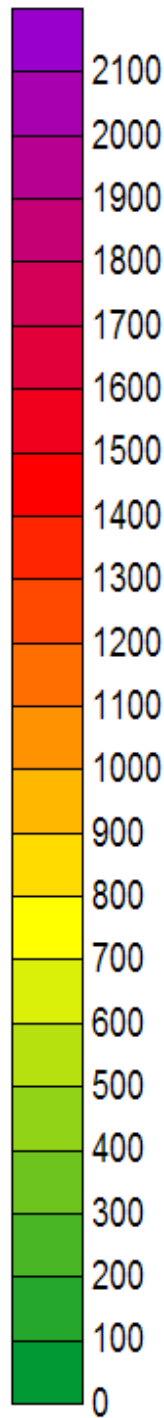
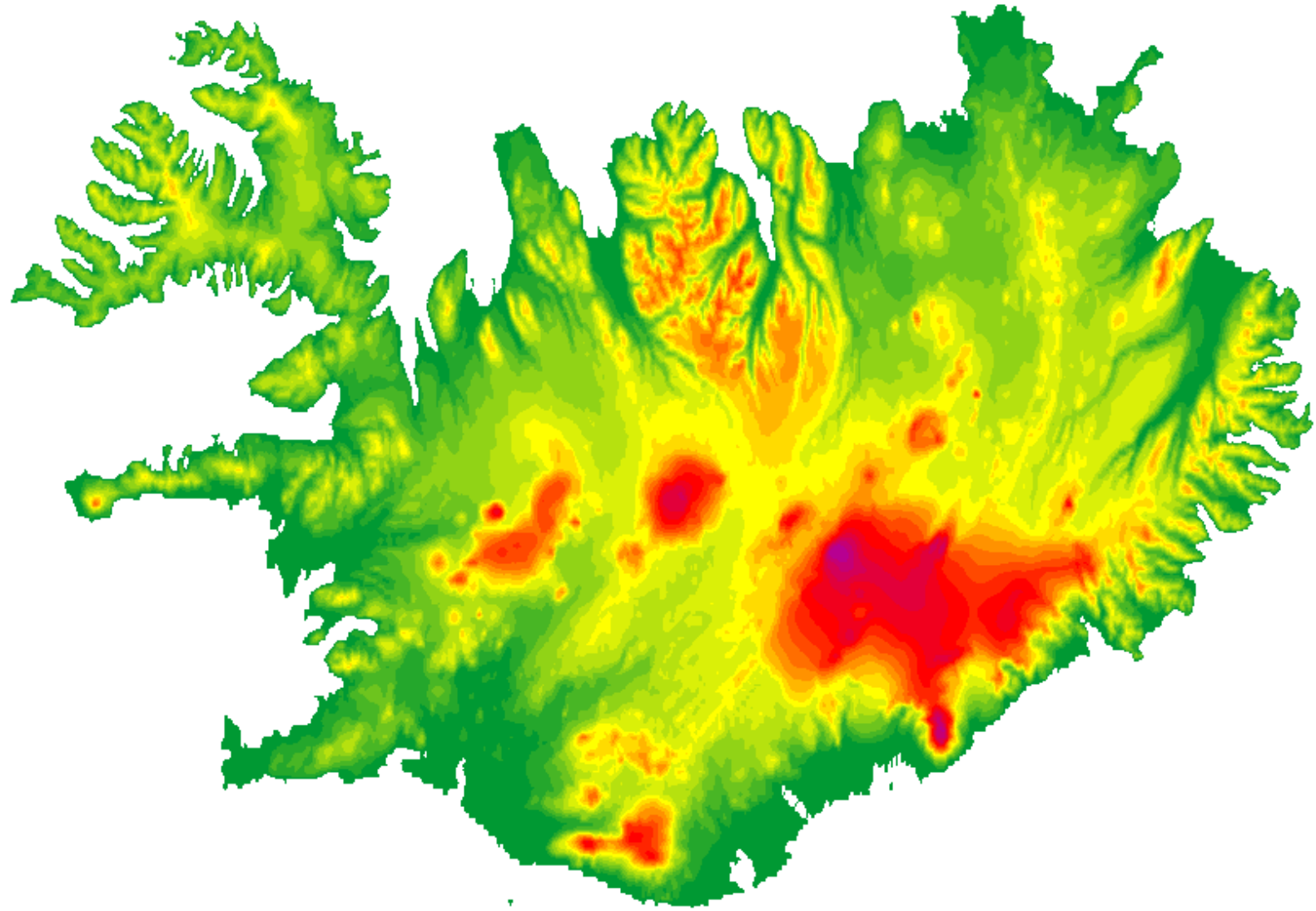


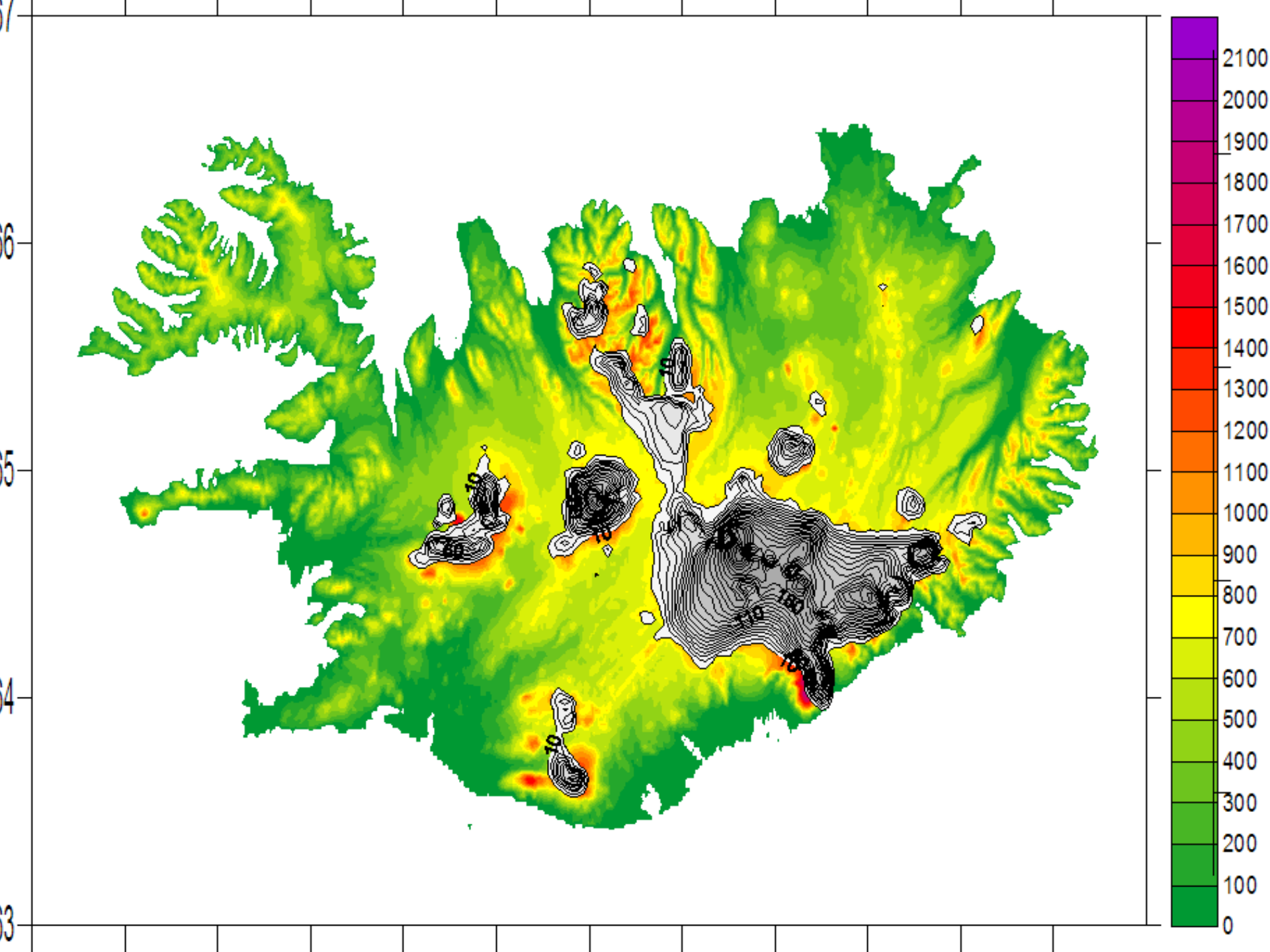






Permafrost in Iceland



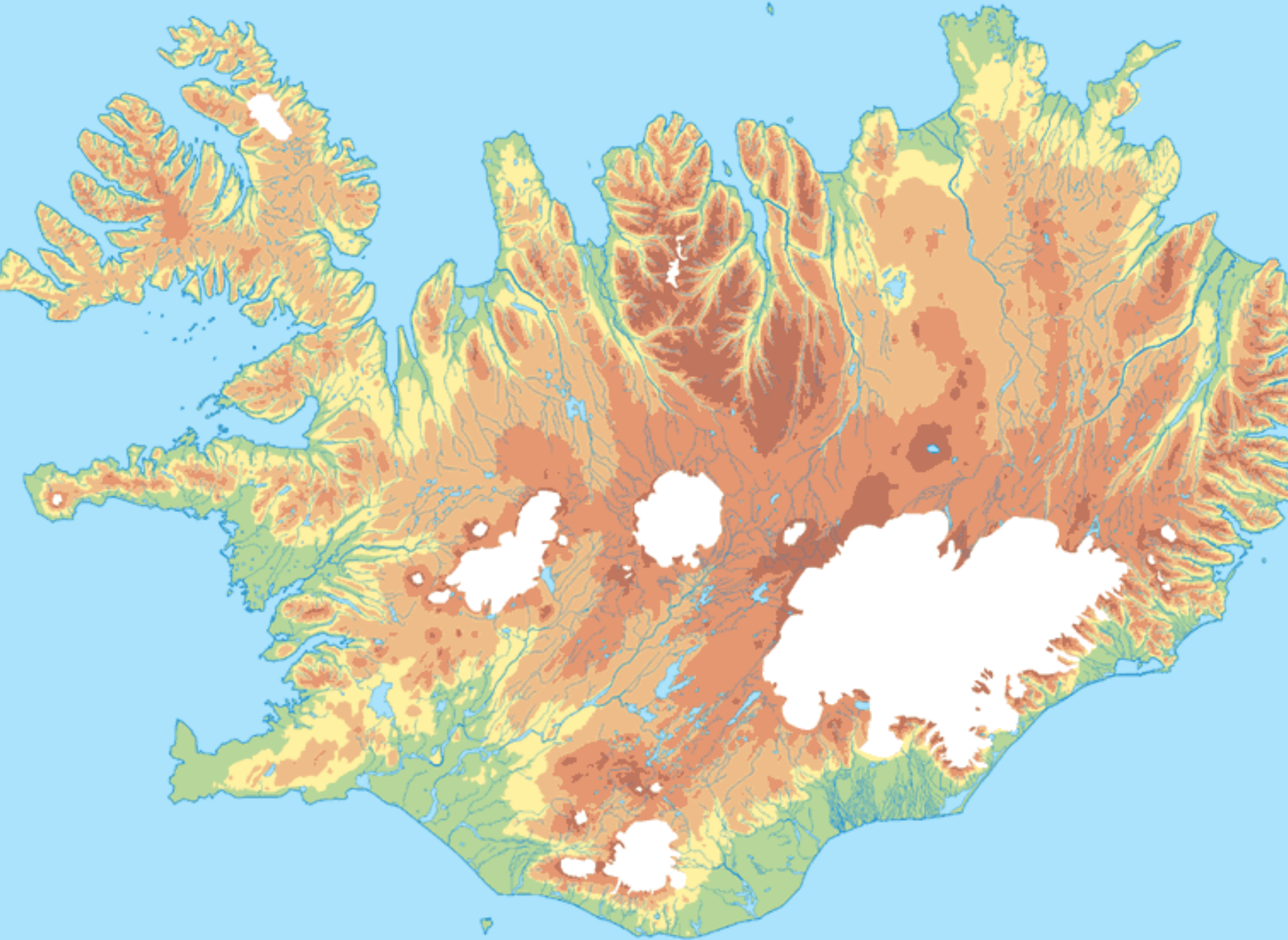


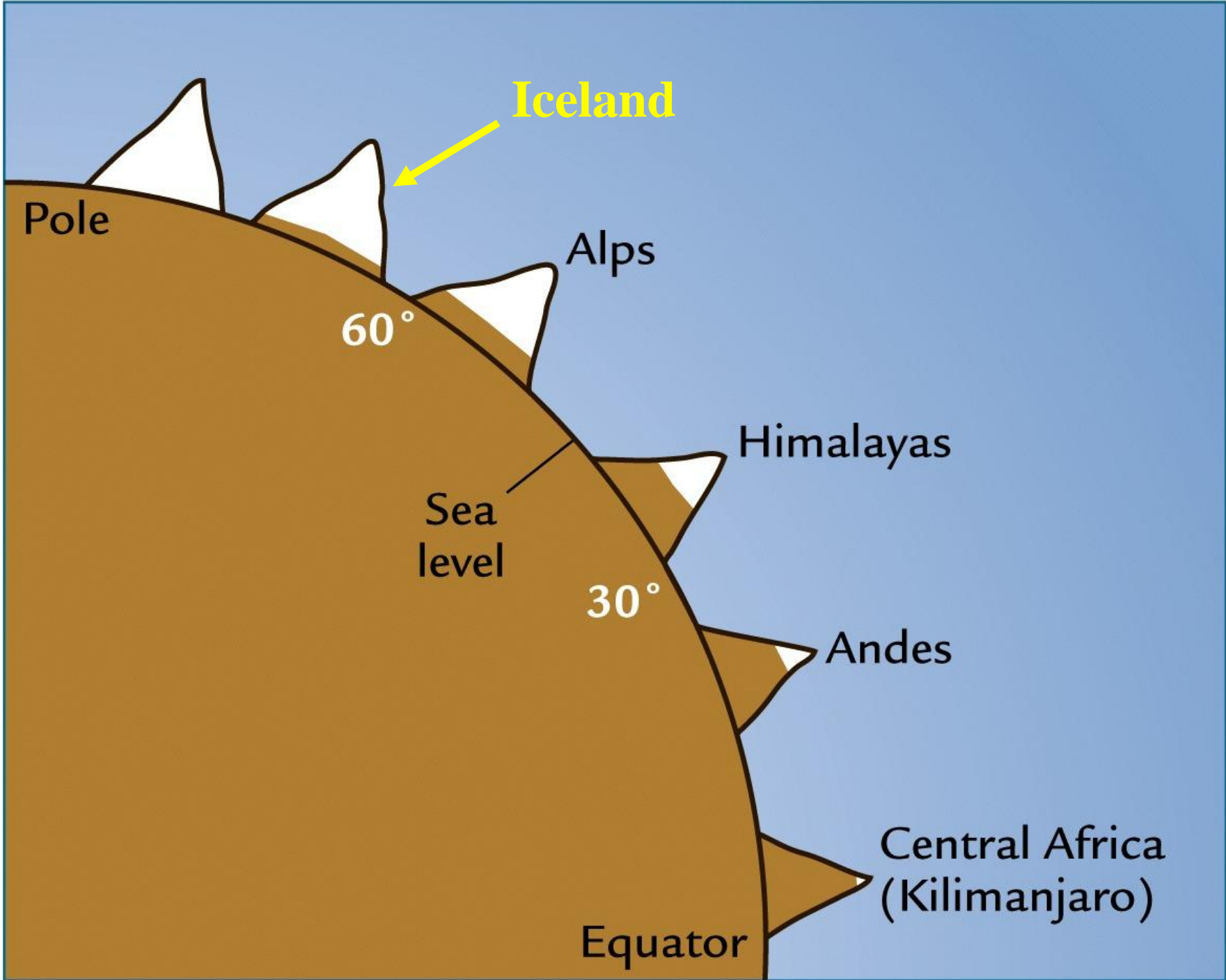






Glaciers





Iceland



Pole

Alps

60°

Himalayas

Sea level

30°

Andes

Central Africa
(Kilimanjaro)

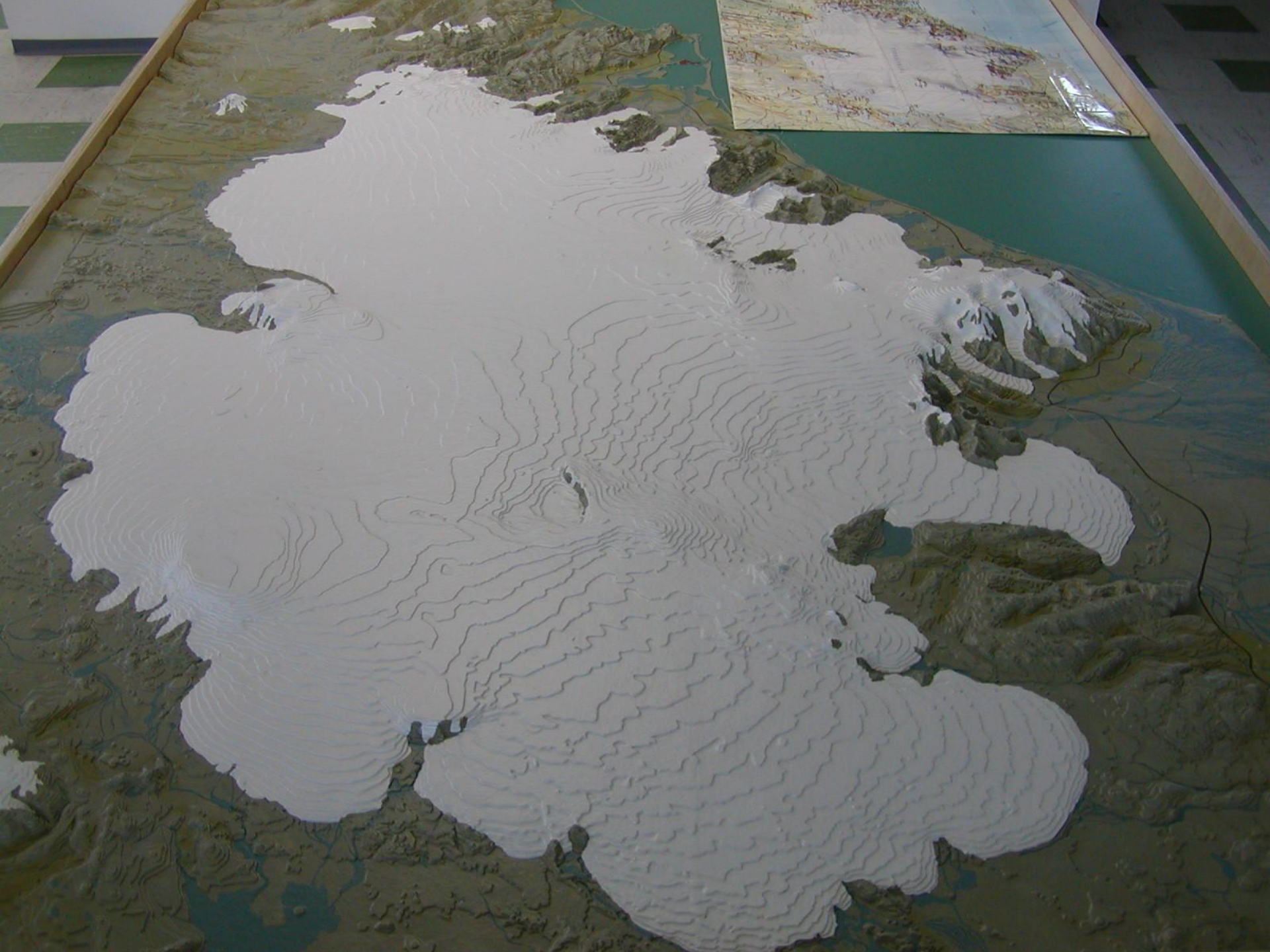
Equator










Subglacial volcanoes

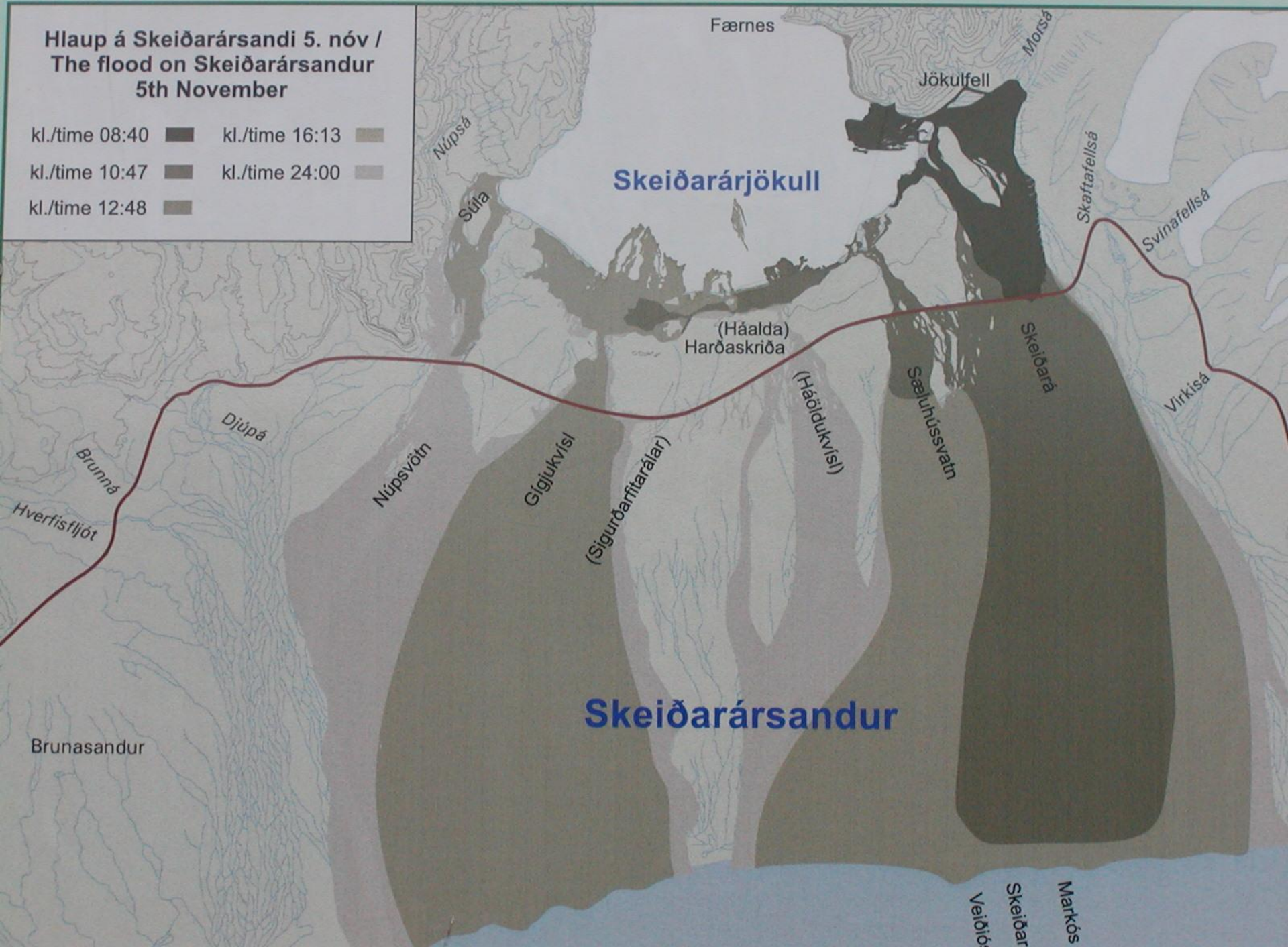




ays after it began.

Hlaup á Skeiðarársandi 5. nóv / The flood on Skeiðarársandur 5th November

kl./time 08:40		kl./time 16:13	
kl./time 10:47		kl./time 24:00	
kl./time 12:48			









Periglacial landforms



OLYMPUS















Eolian landforms













Fluvial landforms













Coastal landforms





