

Geocryology

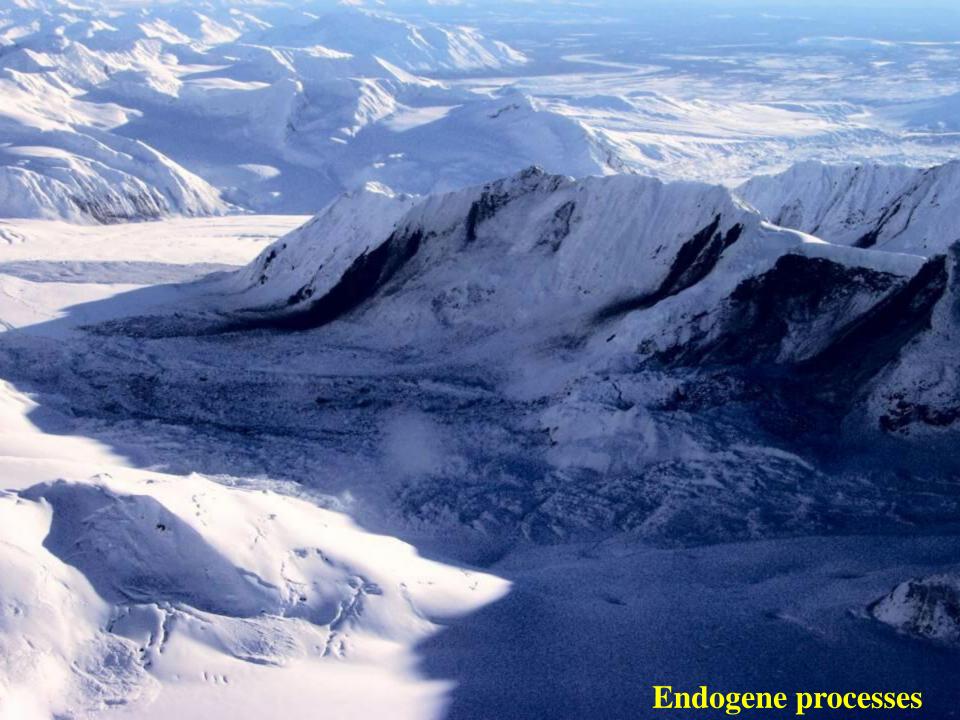






Processes











Landforms and and processes





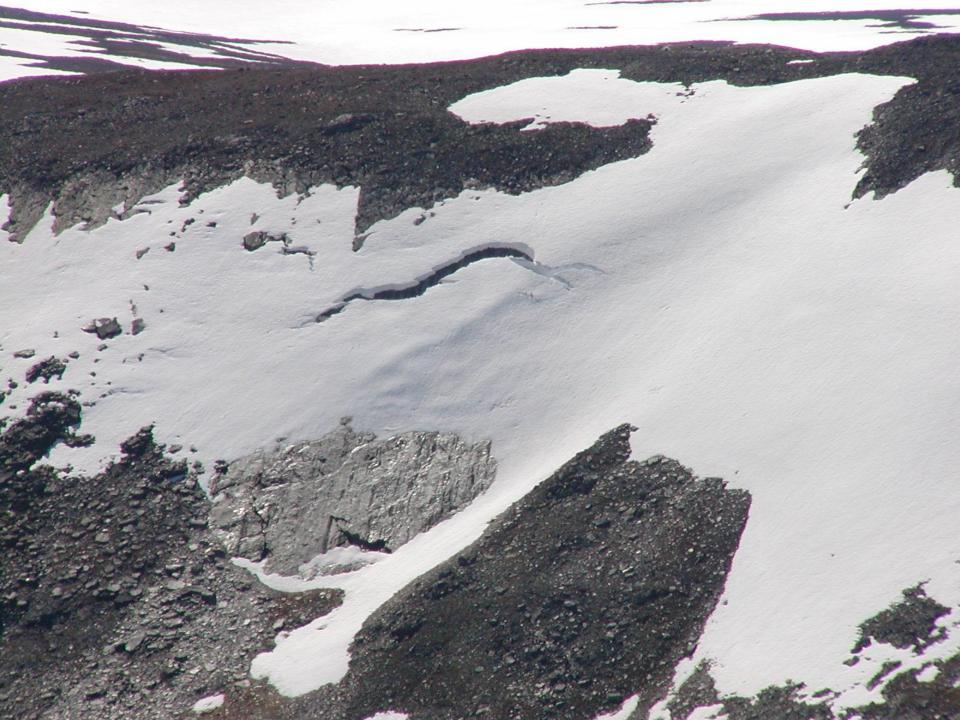




Periglacial processes

















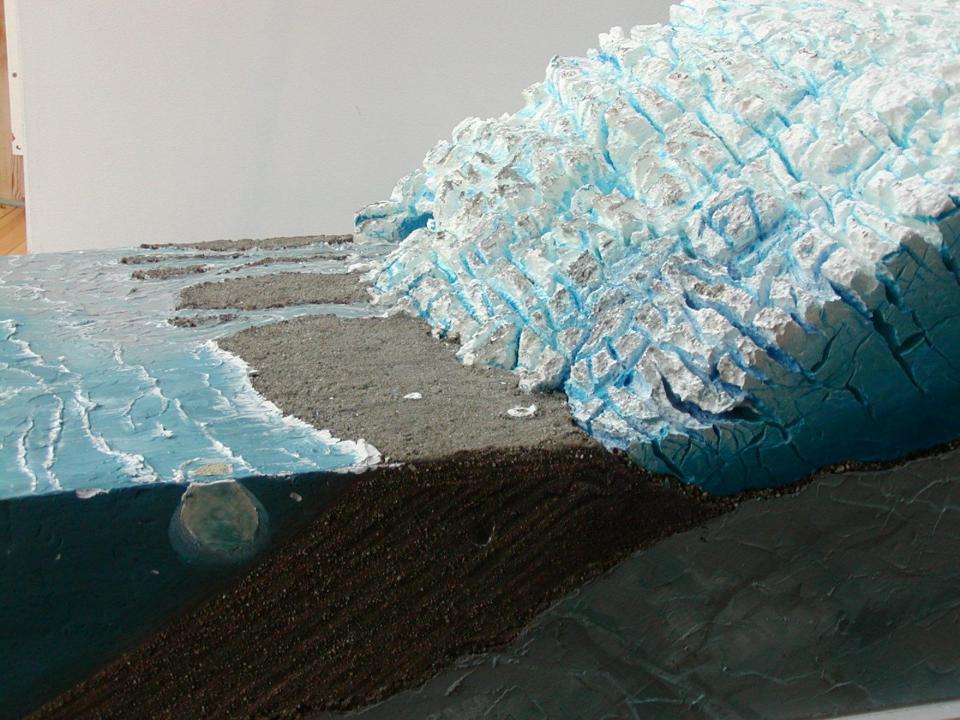






Glacial processes



















Fluvial processes









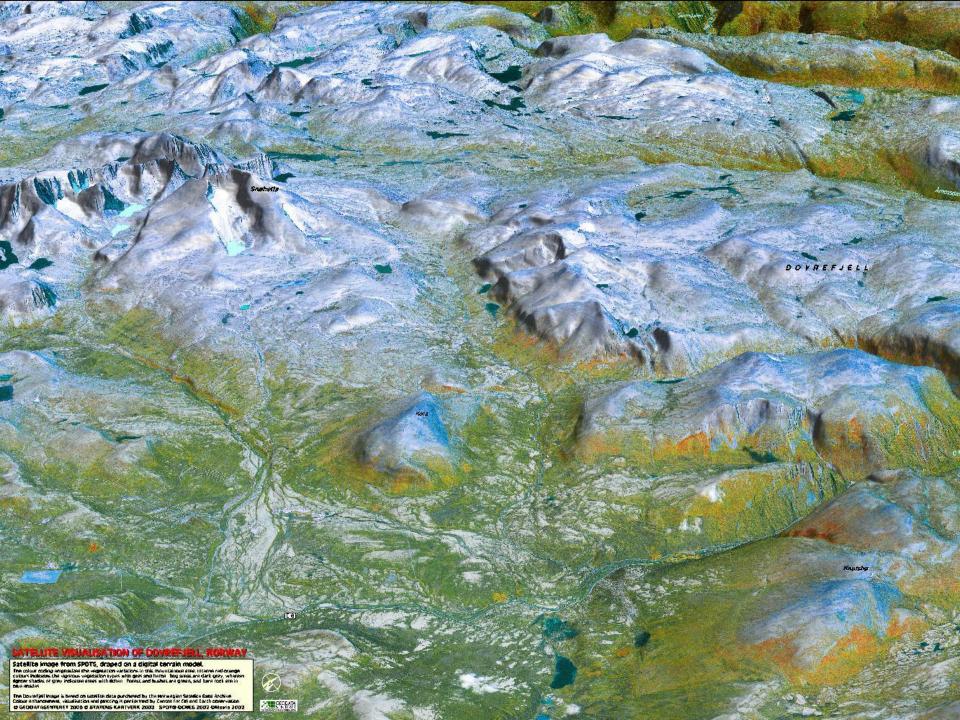
Glacial versus periglacial



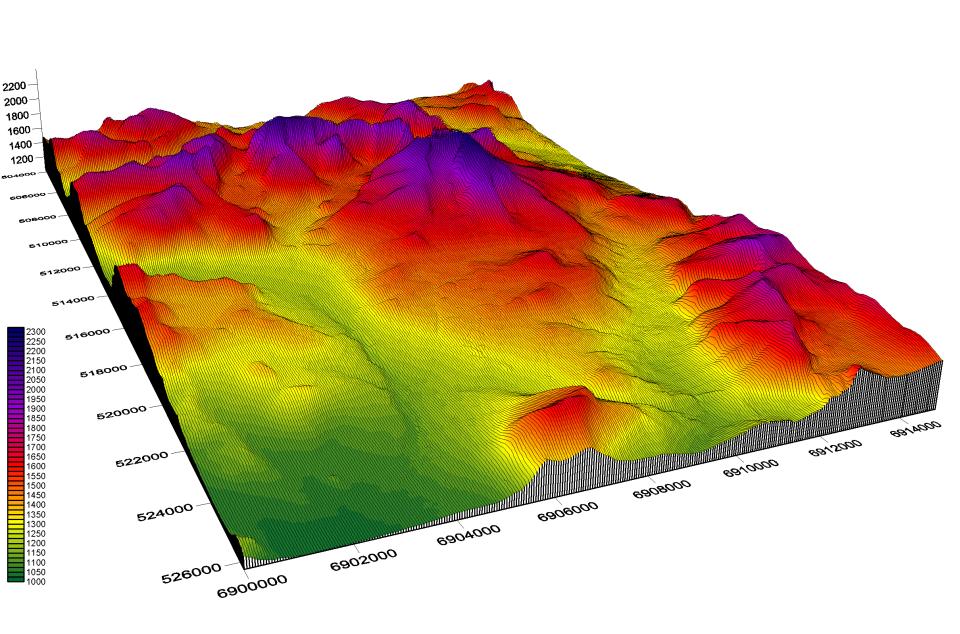


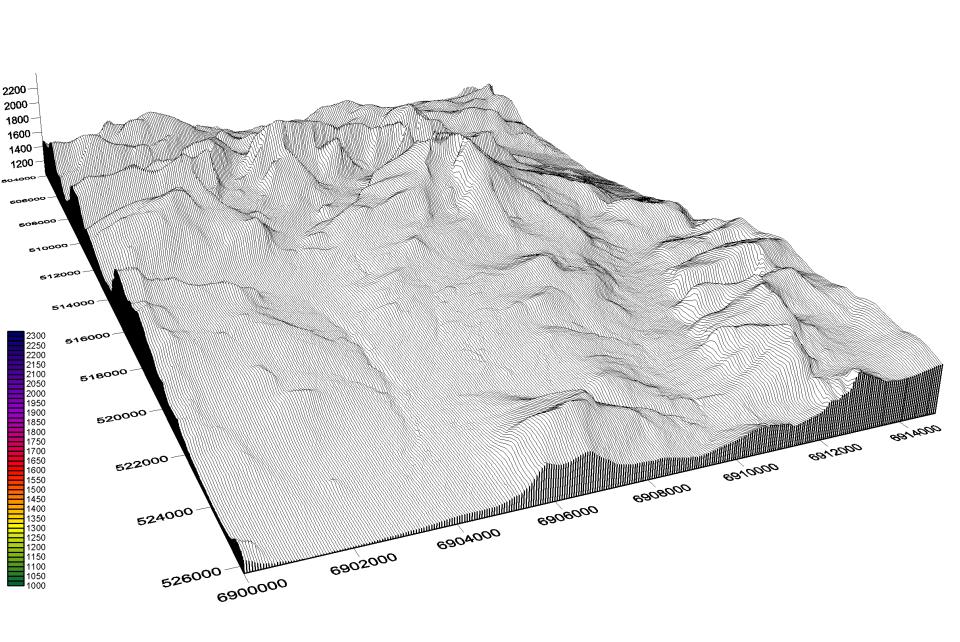
Glaciation, periglaciation and permafrost

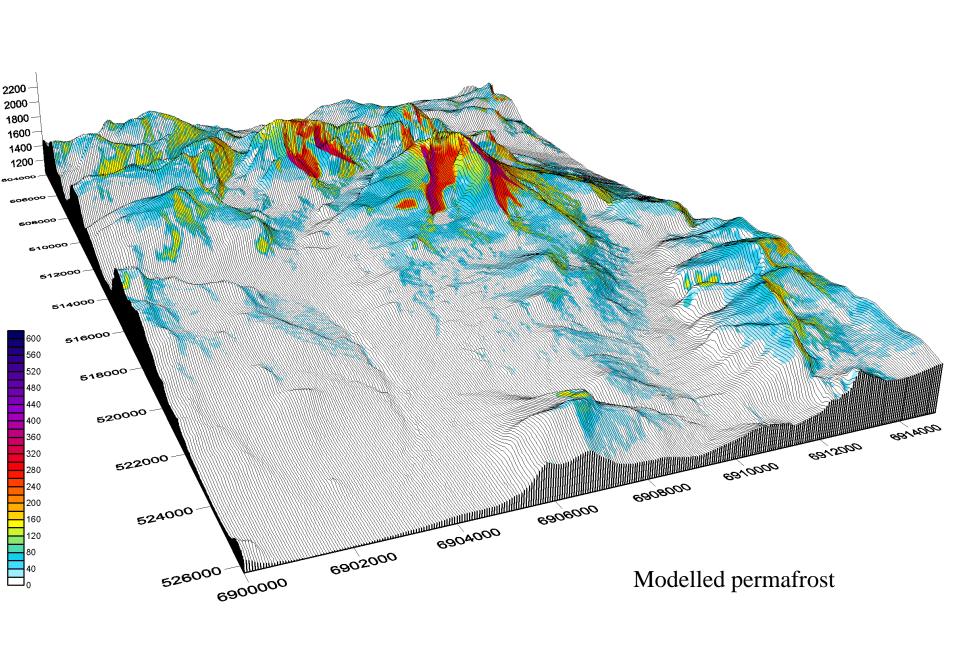












Knowledge on geomorphic processes:

- 1: Background for interpreting landforms
 - 2: Background for interpreting climate

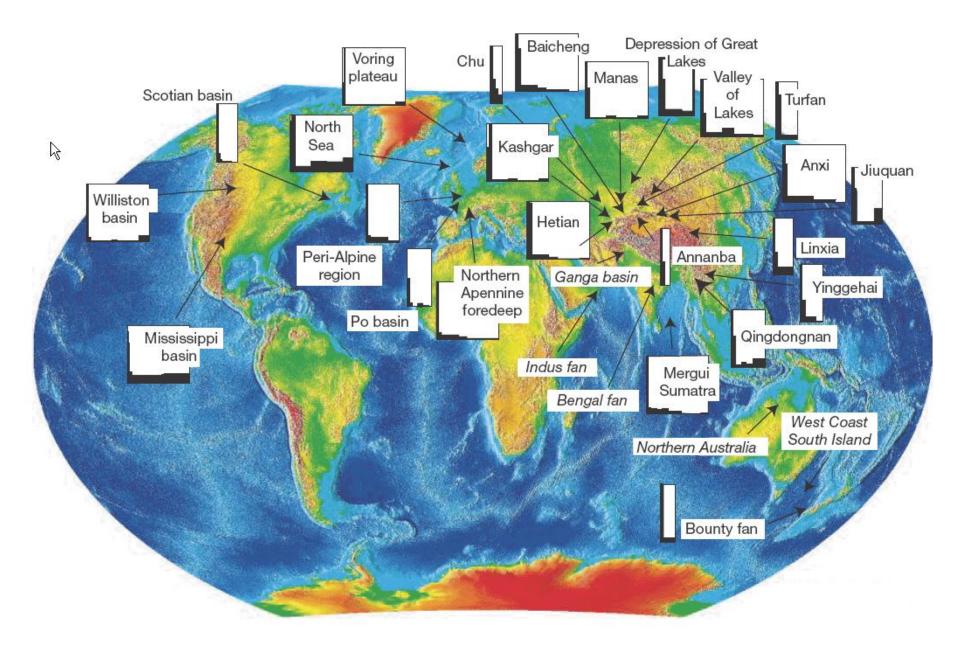
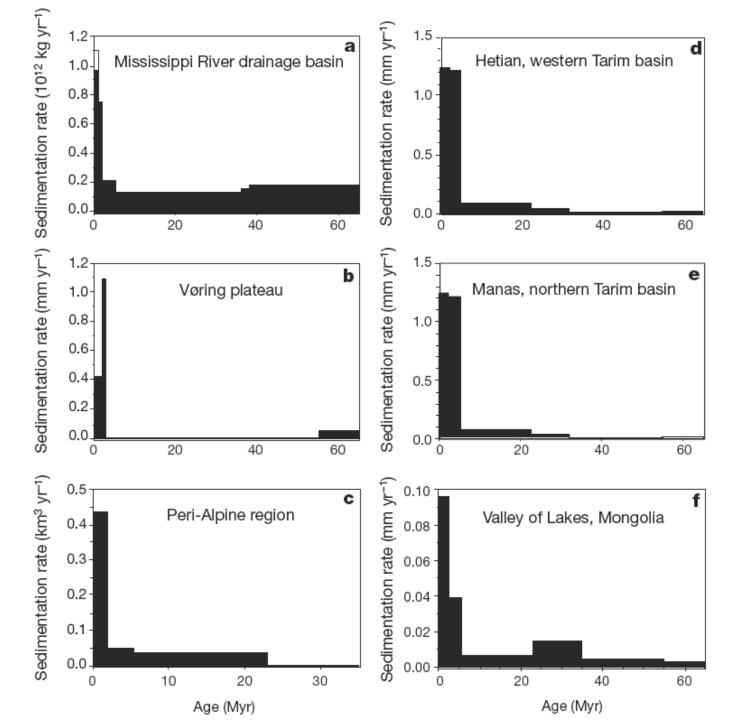
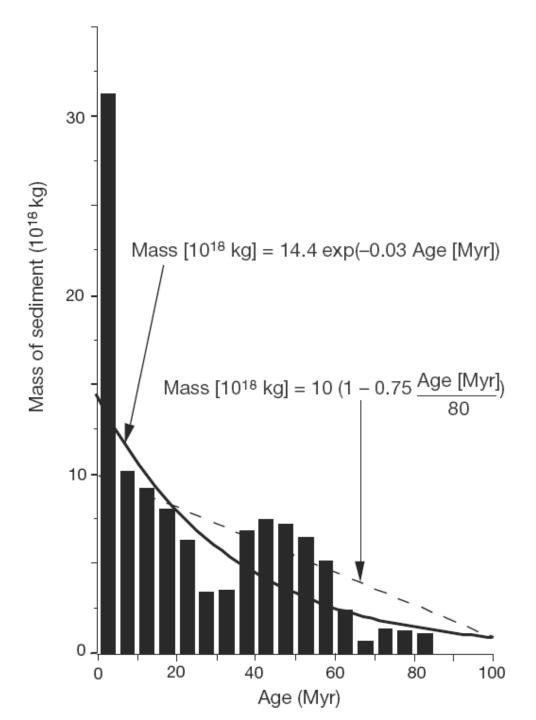


Figure 2 Map of the Earth showing selected areas where sedimentation rates have increased substantially since 2–4 Myr ago. (Details are given in Fig. 4 and Supplementary Information.) For each area, a small histogram is shown. The vertical scale is normalized to

the maximum sedimentation rate in that area, and all horizontal axes are plotted at the same timescale; the longest records extend to 65 Myr ago. We show only the part of the Cenozoic for which there are measurements.





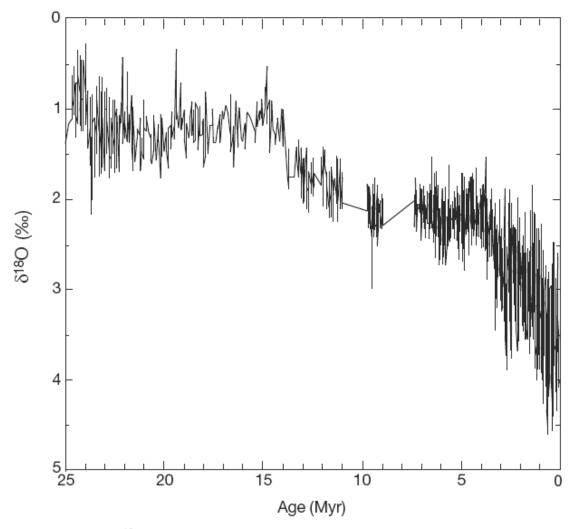
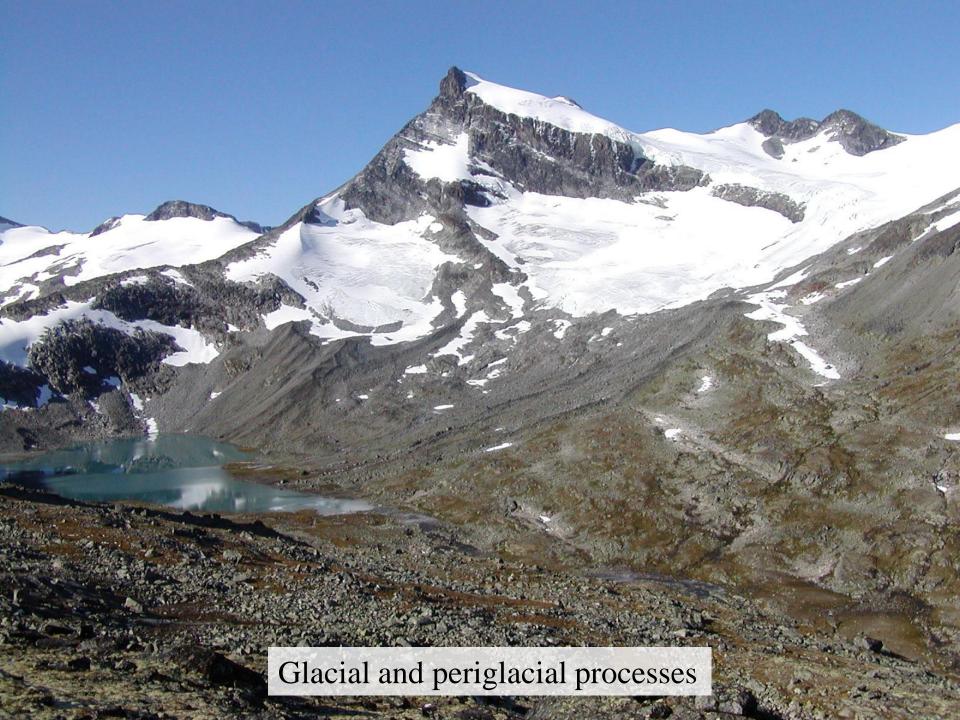


Figure 1 Plot of δ^{18} O from benthic foraminifers since 25 Myr ago, showing increases in mean values and in variability since \sim 4 Myr ago. The former increases imply cooling, and the latter increases imply an increasingly variable climate. Values (in ‰) have been measured largely (\sim 95%) from fossil tests of *Cibicoides* spp., or adjusted to be equivalent to those of *Cibicoides* (ref. 63), from the Ceara rise in the eastern equatorial Atlantic Ocean (Ocean Drilling Project sites 925, 926 and 926). Values are plotted increasing downwards to reflect cooling. Data are from refs 62–66, and from T. Bickert and W. B. Curry, personal communication.



Next: Climatic background