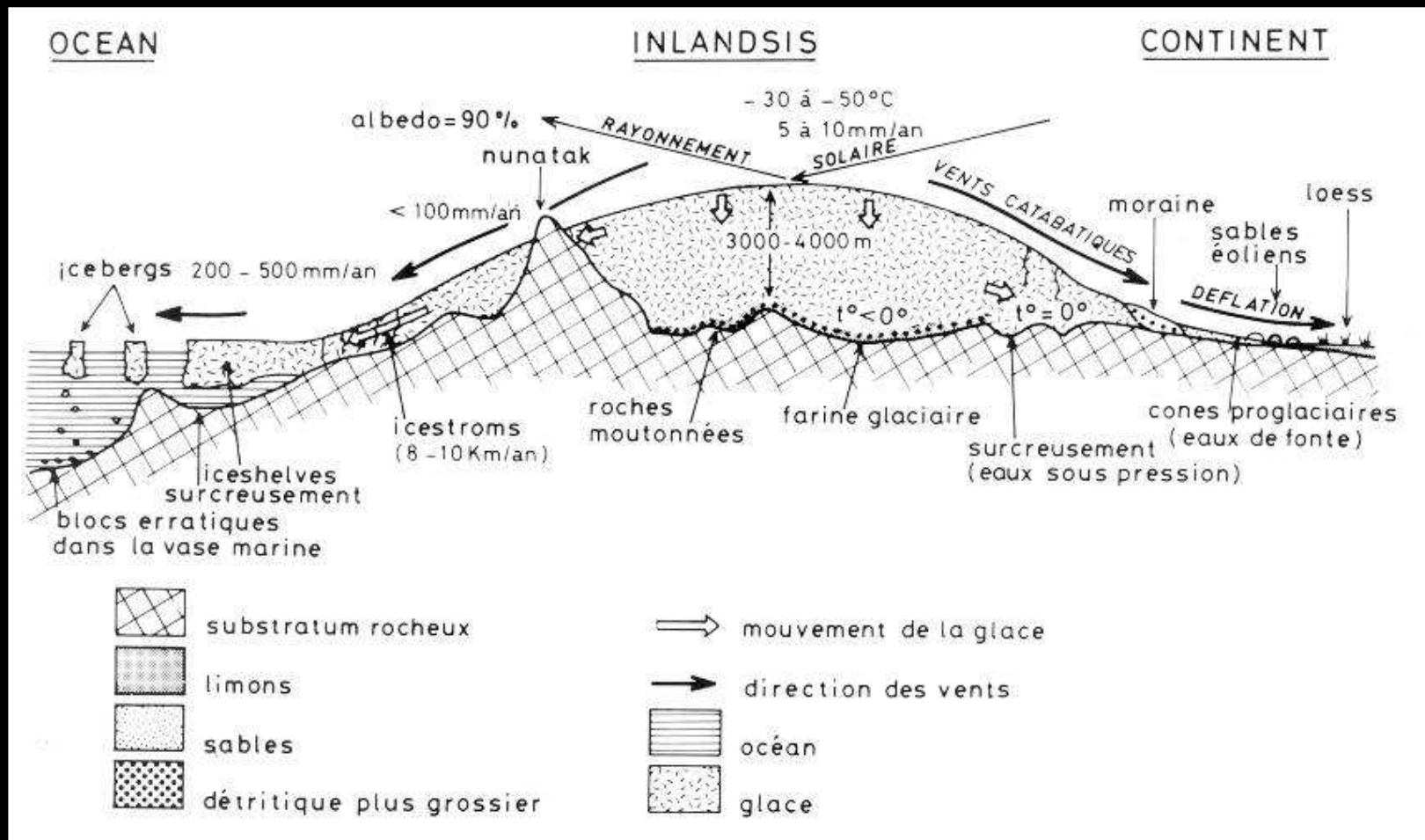
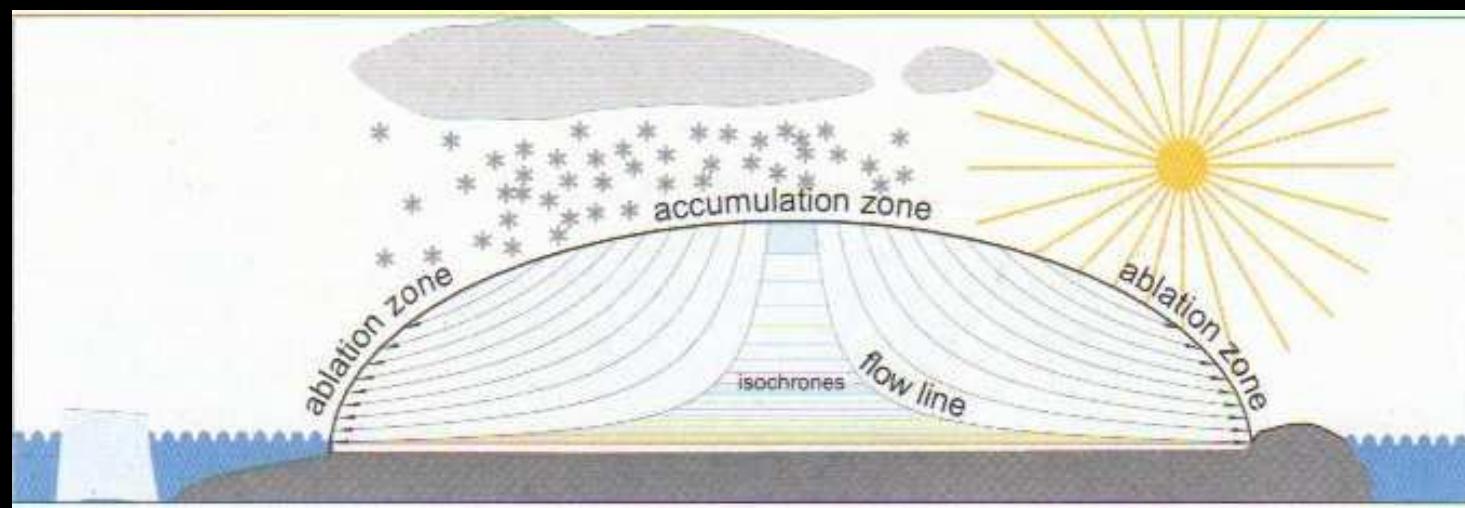
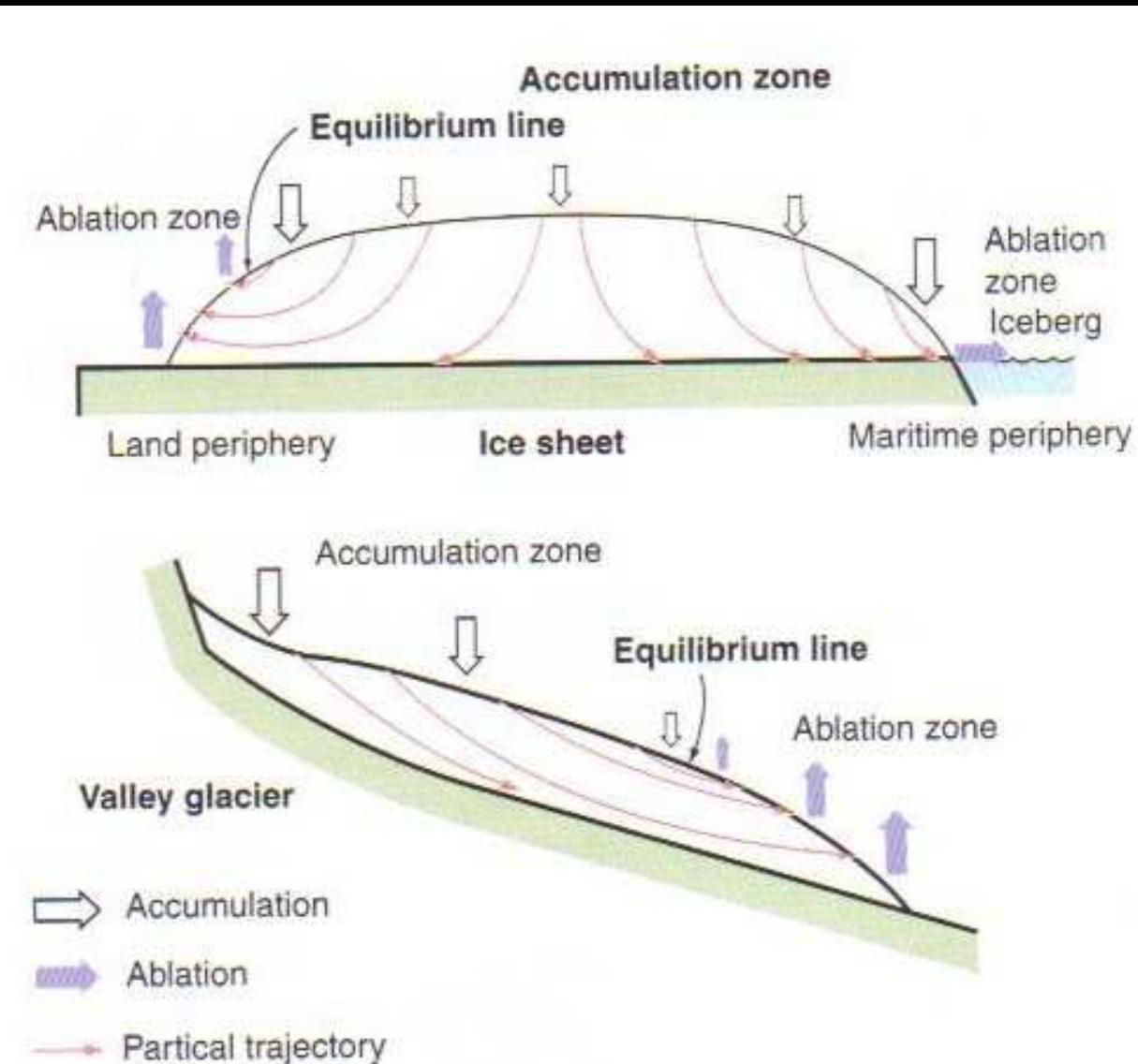
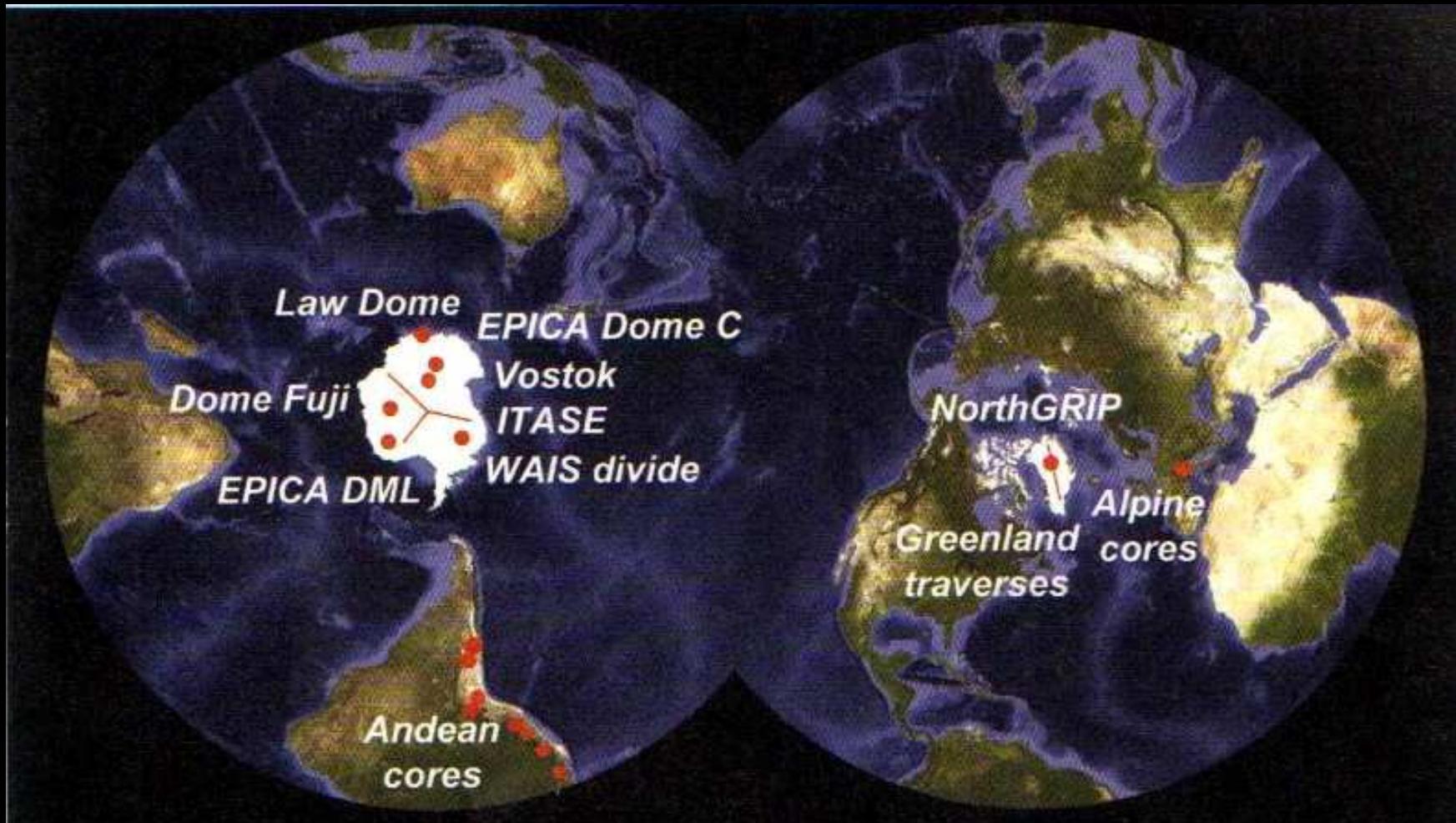


Figure 1 History of entrapped particles in glacial ice and the present-day distribution of glaciers. (A) Schematic illustrating the range of source environments that contribute particles to the atmosphere. (B) Advective currents, created by solar generated infrared radiation, inject surface derived aerosols high in the atmosphere. Such aerosols (red dots) may serve as primary ice nuclei in clouds, and are subsequently precipitated in snowfall or rain. (C) In geographical locations where the annual temperature remains cold enough for snowfall to accumulate annually, particles from the atmosphere are archived in a chronological sequence in firm and glacial ice. (D) Global locations of present-day ice sheets and mountain glaciers (in blue). Each glacial environment is unique, as the nearest ecosystems that would most likely contribute the majority of airborne biological particles are very different. Distribution data based in part on Satellite Image Atlas of Glaciers of the World (US Geological Survey, (2002) Satellite Image Atlas of Glaciers of the World).









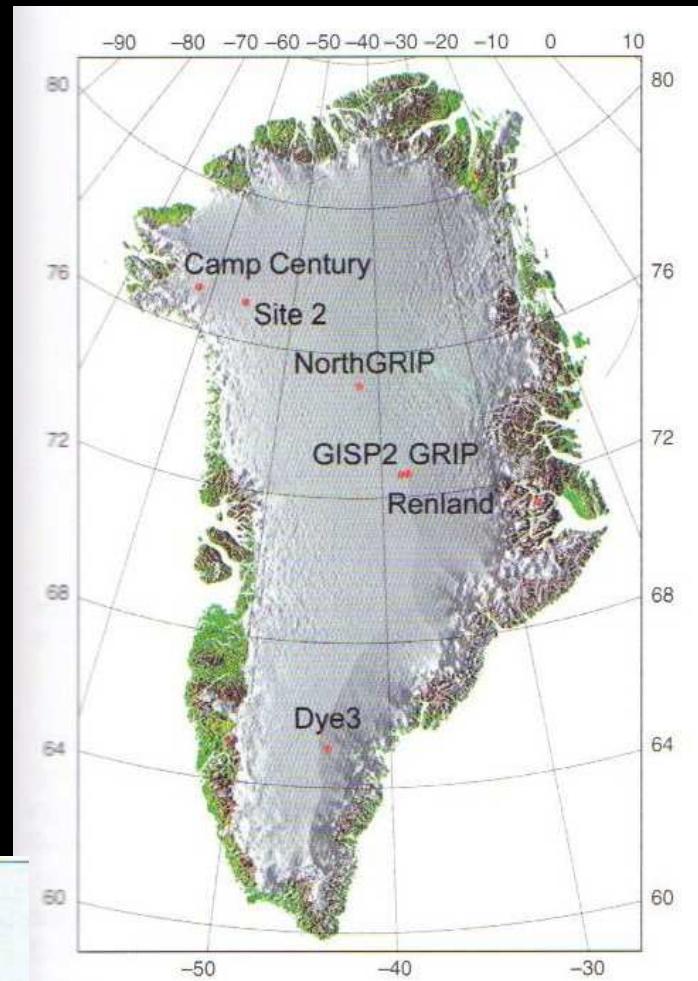
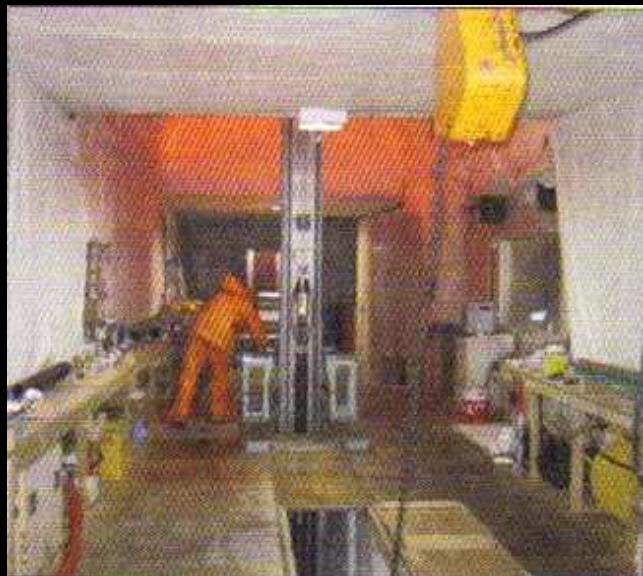
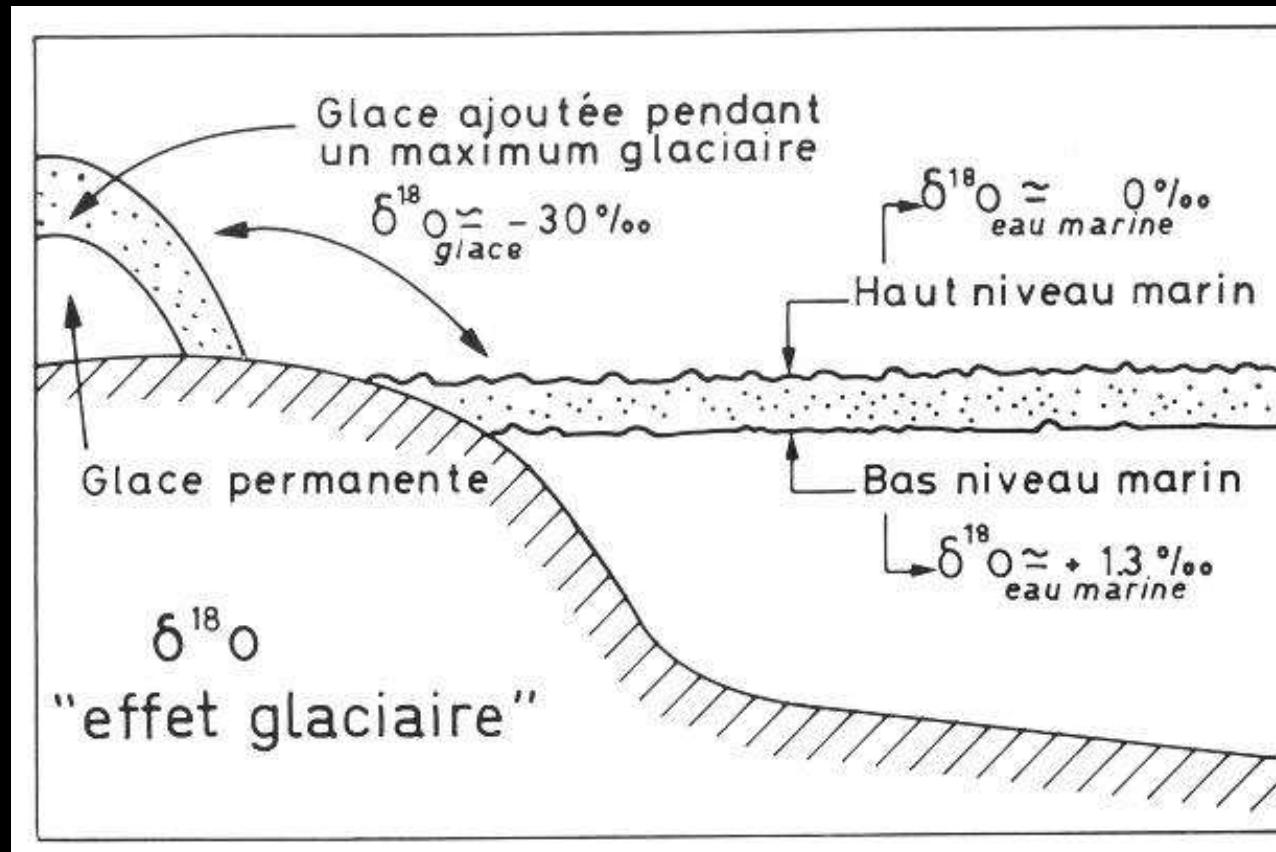


Figure 1 Locations of selected Greenland ice cores. The Site 2 core was the first ice core drilled in Greenland. The Camp Century, Dye-3, GISP2, GRIP, NGRIP, and Renland cores all contain ice from the Holocene, Glacial, and Eemian periods.

Effetto glaciale



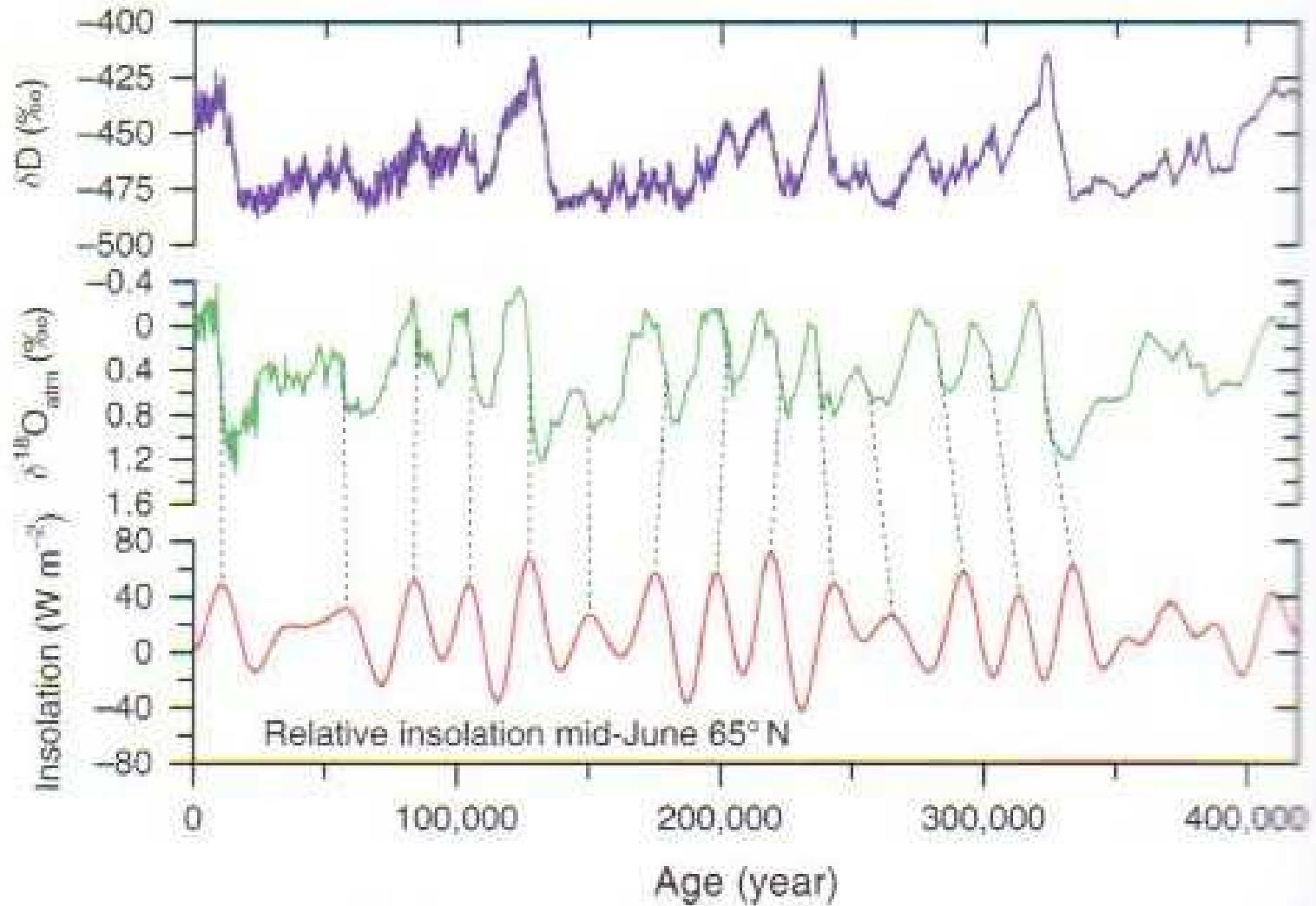


Figure 6 The $^{18}\text{O}/^{16}\text{O}$ isotope ratio of the air in the Vostok ice core correlates with the insolation at 65°N. The stable isotope ratio of the ice (δD) is a proxy for local temperature.

