

Development of a sampling technique for gases dissolved in pore waters of lake sediments

Martin Stute

Introduction

Glacial paleoclimate in low latitudes is still a hot issue. Have the tropics been considerably cooler, as suggested by changes in snowlines and vegetation zones, groundwater noble gas temperatures, high resolution marine isotope records, Sr/Ca ratios in corals, or was the tropical climate fairly unchanged as suggested by some paleoceanographic reconstruction. Because the tropics do cover a large percentage of the globe, the resolutions of this question is essential for a better estimate of the sensitivity of the Earth's climate as well as for a better understanding of the climate processes.