

Greenland temperature variability over the past 2000 years inferred from NGRIP and GISP2 ice cores

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We reconstructed Greenland temperature change for the past 2000 years using argon and nitrogen isotopes in trapped air in NGRIP and GISP2 ice cores. To identify true variability of temperature, we also applied various methods such as borehole temperature inversion, Monte Carlo inversion of borehole temperature, oxygen isotopes of ice, forward and inverse methods for argon and nitrogen isotopes with borehole temperatures. We will present the results of analyses and implications.

Keywords: Greenland, temperature, ice core, GISP2, NGRIP, 2000 years