

Paleo influence of ocean temperatures on southwest Greenland Ice-Sheet margins

Geologic record can be used to test the response of ice to past variations in ocean temperatures at centennial timescale, moving beyond ice-sheet 'weather'

That said, we don't know the paleo record that well!

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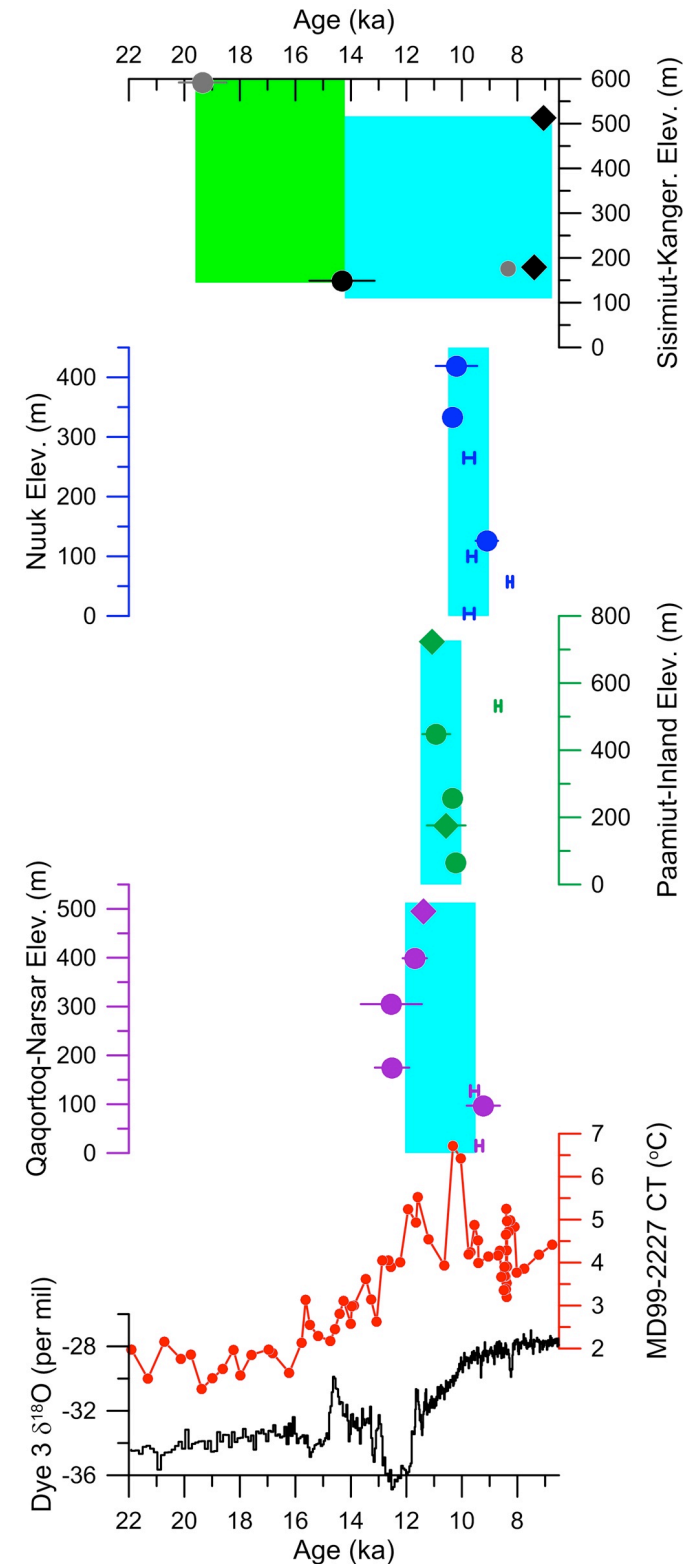
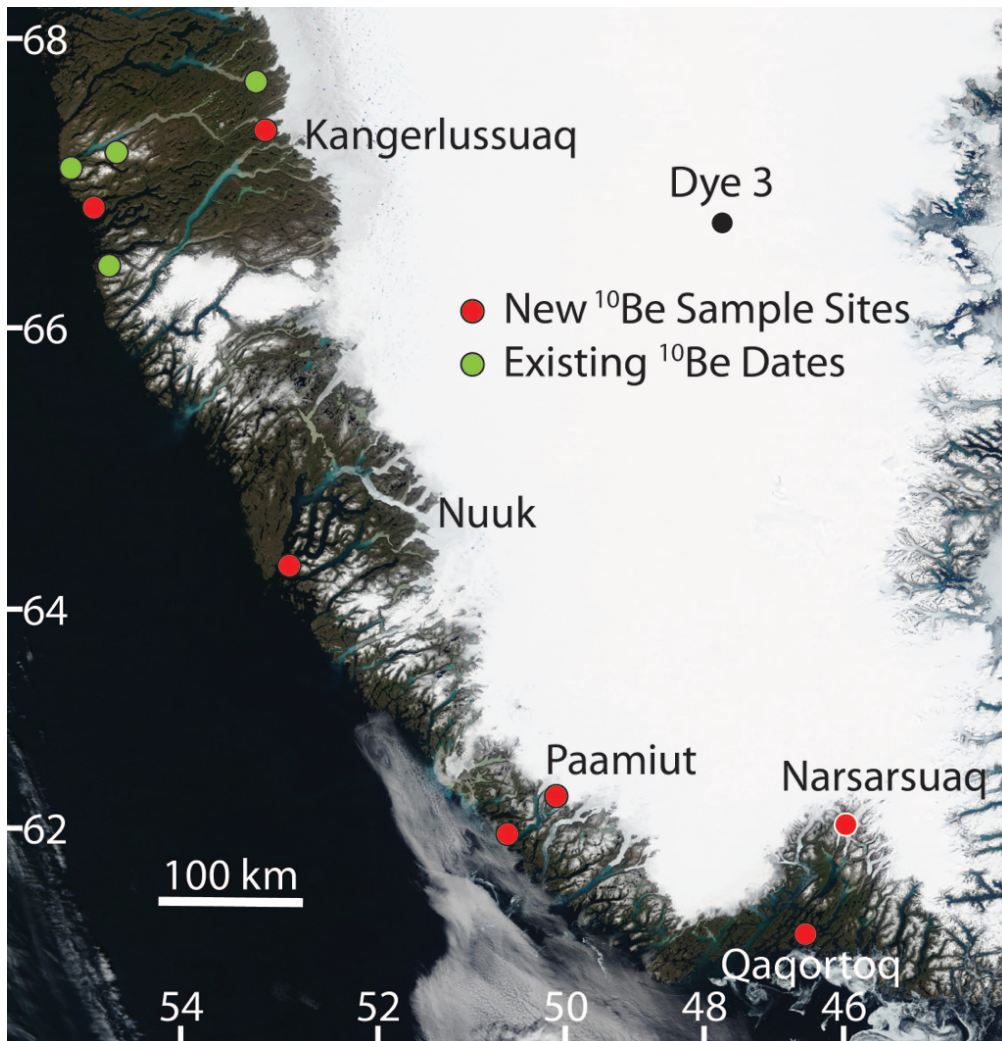
Geoscience, University of Wisconsin-Madison

SUERC, University of Glasgow

PRIME, Purdue University

Deglaciation

Land-based retreat occurred in millennia while marine-based retreat occurred in centuries, concurrent with peak Lab Sea SST



Late Holocene

Retreat from Narsarsuaq Moraine
 ~1.5 ka concurrent with late
 Holocene arrival of warm Atlantic
 waters in south Greenland fjords

