

# Responses of terrestrial ecosystems to Dansgaard-Oeschger cycles and Heinrich-events: A 28,000-year record of environmental changes from SE Hungary.

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Quaternary International

Volume 293, 19 April 2013, Pages 34-50

## Responses of terrestrial ecosystems to Dansgaard-Oeschger cycles and Heinrich-events: A 28,000-year record of environmental changes from SE Hungary

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<https://doi.org/10.1016/j.quaint.2012.07.032>

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### Abstract

According to the findings of a complex sedimentological, geochemical, malacological and pollen study implemented on a core sequence of an alkaline lake (Fehér Lake), interstadials in the SE Great Hungarian Plain were characterized by increased boreal woodland cover during Marine Isotope Stage 2 (MIS 2: 29,700–14,500 cal BP). These interstadials were dated to 26,420–27,970, 23,185–24,880, and 18,810–20,770 cal BP, and correlate well with the Dansgaard-Oeschger (DO) interstadials 2 and 3 and the post LGM warm interval seen in the Greenland ice core oxygen isotope records. Intervening cold phases, on the other hand, were found

between 24,880±26,420 and 20,770±23,185A cal BP, correlating with Heinrich event 2 and the LGM. These data overall confirm that millennial scale climate variability during Marine Isotope Stage 2 had profound effect on the terrestrial ecosystems in the continental interior of SE Europe, leading to periodic boreal woodland expansions and contractions and wildfires.



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