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Result of ^{14}C dating of charcoal from Zomeren, Oost-Vlaanderen, Belgium. (p 2107)

Pre-treatment of charcoal and similar materials:

1. Visible root-fibres are removed.
2. 1 % HCl is added (8-10 hours, just below the boiling point) (carbonates are removed).
3. 1 % NaOH is added, (8-10 hours, just below the boiling point). The soluble part is precipitated by addition of concentrated HCl. The precipitate, which mainly consists of humus material, is washed, dried and referred to as fraction SOL. The insoluble fraction, referred to as INS, is mainly consisting of the original organic material, and should therefore provide the most reliable age. Influence of contaminants could be obtained from the SOL fraction.

Prior to the accelerator determination of the ^{14}C -content, the washed and dried material, acidulated to pH 4, is combusted to CO_2 which is graphitised using a Fe-catalyst reaction. In the present investigation fraction INS has been dated.

RESULT

Labnumber	Sample	$\delta^{13}\text{C}\text{‰}$ V-PDB	^{14}C age BP
Ua-61148	ZOMDE_S3032_M20	-20,9	1 982 \pm 31

Best regards

Göran Possnert / Lars Beckel

