

The University of Waikato
Radiocarbon Dating Laboratory



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Report on Radiocarbon Age Determination for Wk- 12978

(AMS measurement by IGNS [NZA-18067])

Submitter M Ciaraldi
Submitter's Code BCD03 F65 bottom
Site & Location Balby Carr, Doncaster,
Sample Material wood twig, possibli alder (Alnus sp.)
Physical Pretreatment Washed in ultrasonic bath.
Chemical Pretreatment Sample was washed in hot 10% HCl, rinsed and treated with hot 1% NaOH. The NaOH insoluble fraction was treated with hot 10% HCl, filtered, rinsed and dried.

$\delta^{14}\text{C}$	-217.6 ± 3.9	‰
$\delta^{13}\text{C}$	-27.6 ± 0.2	‰
D^{14}C	-217.3 ± 4.2	‰
% Modern	78.3 ± 0.4	%
Result	1968 \pm 43 BP	

Comments

20/8/03

- Result is *Conventional Age or % Modern* as per Stuiver and Polach, 1977, Radiocarbon 19, 355-363. This is based on the Libby half-life of 5568 yr with correction for isotopic fractionation applied. This age is normally quoted in publications and must include the appropriate error term and Wk number.
- Quoted errors are 1 standard deviation due to counting statistics multiplied by an experimentally determined Laboratory Error Multiplier of 1.
- The isotopic fractionation, $\delta^{13}\text{C}$, is expressed as ‰ wrt PDB.
- Results are reported as *% Modern* when the conventional age is younger than 200 yr BP.

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Report on Radiocarbon Age Determination for Wk- 12979

(AMS measurement by IGNS [NZA-18068])

Submitter	M Ciaraldi
Submitter's Code	BCD03 F65 - top
Site & Location	Balby Carr, Doncaster,
Sample Material	fragmented pieces of wood
Physical Pretreatment	Removed physical contaminants. Washed in ultrasonic bath.
Chemical Pretreatment	Sample was washed in hot 10% HCl, rinsed and treated with hot 1% NaOH. The NaOH insoluble fraction was treated with hot 10% HCl, filtered, rinsed and dried.

$\delta^{14}\text{C}$	-221.5 ± 3.9	‰
$\delta^{13}\text{C}$	-28.8 ± 0.2	‰
D^{14}C	-219.3 ± 4.2	‰
% Modern	78.1 ± 0.4	%
Result	1989 \pm 43 BP	

Comments

20/8/03

- Result is *Conventional Age or % Modern* as per Stuiver and Polach, 1977, Radiocarbon 19, 355-363. This is based on the Libby half-life of 5568 yr with correction for isotopic fractionation applied. This age is normally quoted in publications and must include the appropriate error term and Wk number.
- Quoted errors are 1 standard deviation due to counting statistics multiplied by an experimentally determined Laboratory Error Multiplier of 1.
- The isotopic fractionation, $\delta^{13}\text{C}$, is expressed as ‰ wrt PDB.
- Results are reported as *% Modern* when the conventional age is younger than 200 yr BP.