

IsoTrace Radiocarbon Laboratory

Accelerator Mass Spectrometry Facility
at the University of Toronto

60 St. George Street
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*Creepele Block D occupation surrounding
intrusive bison skull feature*

Radiocarbon Analysis Report

February 24, 2005

Submitter: B.A.Nicholson, Dept of Native Studies, Brandon Univ, Brandon MB

This result on the collagen fraction is the average of 2 separate analyses (normal precision) and is corrected for natural and sputtering isotope fractionation, using the measured $^{13}\text{C}/^{12}\text{C}$ ratio. The sample age is quoted as an uncalibrated conventional radiocarbon date in years before present (BP), using the Libby ^{14}C meanlife of 8033 years. The error represents the 68.3 % confidence limit.

Some prepared collagen has been sent out of a $\delta^{13}\text{C}$ measurement and this result will be reported as soon as it becomes available. This $\delta^{13}\text{C}$ should not be used for additional fractionation corrections as this Radiocarbon date has already been fully corrected for all isotopic fractionations.

Sample Identification	Description	Weight used (mg)	IsoTrace Lab number	Age (years BP)
CR-RC04-5	bison - humerus shaft	5400	TO-11881	1610 \pm 120

The purified collagen content of this sample was only 0.4%. As a result, this date may not be reliable if contamination was present.

Dr. R. P. Beukens

ISOTRACE RADIOCARBON CALIBRATION REPORT
Output by calibration program C14CAL98
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25-Feb-05

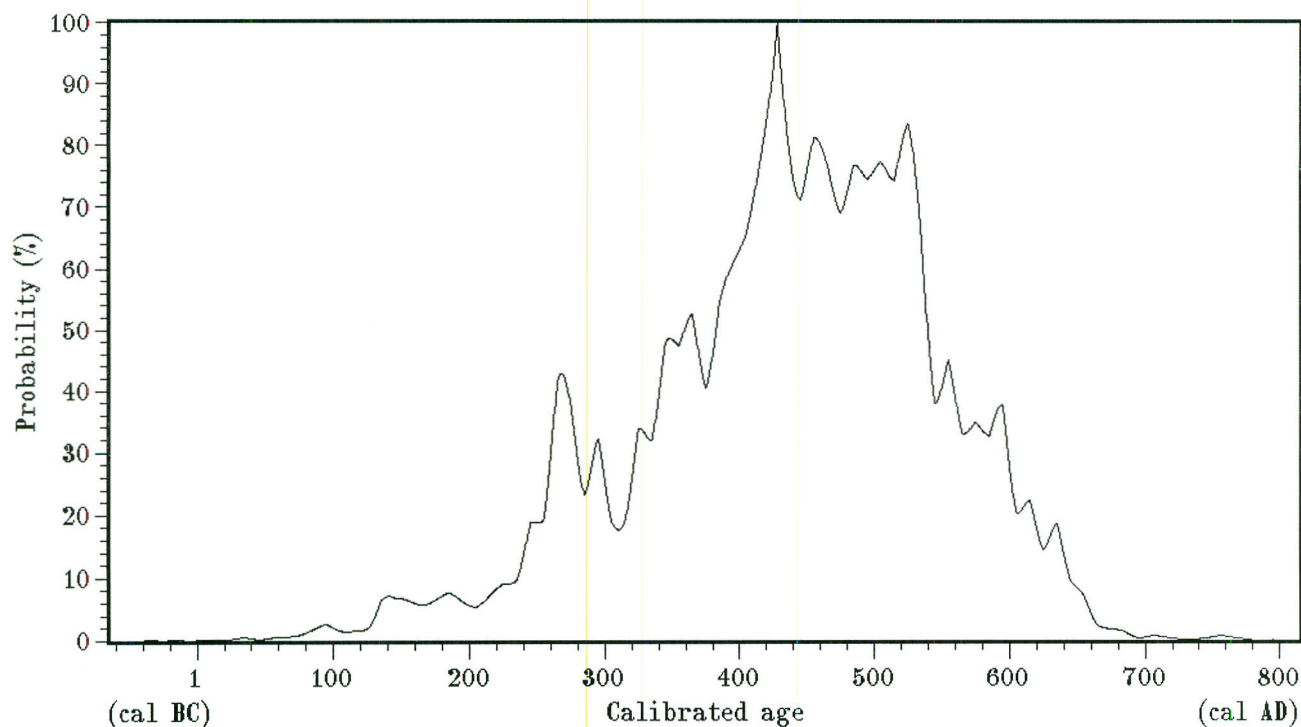
TO-11881 CR-RC04-5 bison - humerus shaft

Radiocarbon date : 1610 \pm 120 BP

All solutions, with a probability of 50% or greater for the calibrated age of this radiocarbon date, have been calculated from the dendro calibration data. The 68% and 95% confidence intervals, which are the 1σ and 2σ limits for a normal distribution, are also given. A probability of 100% means the radiocarbon date intersects the dendro calibration curve at this age. All results are rounded to the nearest multiple of 5 years.

Probability	cal Age	68.3 % c.i.	95.5 % c.i.
100 %	425 cal AD	320 AD - 595 AD	130 AD - 660 AD

Calibrated with the standard data set INTCAL98 from:
M.Stuiver et al.; Radiocarbon 40#3 (1998) p1041



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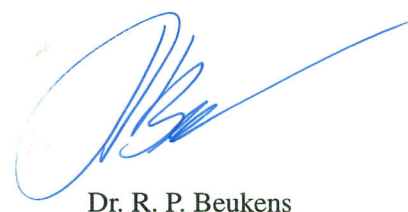
Stable Isotope Analysis Report

April 7, 2005

Submitter: B.A.Nicholson, Dept of Native Studies, Brandon Univ, Brandon MB

Sample Identification	Description	Waterloo Lab number	$\delta^{13}\text{C}$ (‰)
CR-RC04-5	bison - humerus shaft	100432	-25.53

The purified collagen content of this sample was only 0.4% and the $\delta^{13}\text{C}$ out of range for pure collagen. Therefore, the associated Radiocarbon date is probably not reliable.



Dr. R. P. Beukens