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Rif.CEDAD: 20206 0014

Results of Radiocarbon Dating

Dear sir, please find enclosed the results of the radiocarbon dating of the samples you submitted to CEDAD (AMS and radiocarbon dating facility, University of Lecce, Italy) and listed in Table 1.

Sample ID	CEDAD Code	Provenance
25073 P 3	LTL 34773	
25073 P 12	LTL 34774	
25073 P 17	LTL 34775	
25073 P 18	LTL 34776	

TABLE 1. SUMMARY OF THE DATED SAMPLES.

Macro contaminants were removed from the samples by mechanical handpicking under optical microscope. The selected portion of the samples was treated in order to chemically remove any possible source of contamination.

The purified sample material was then converted to carbon dioxide by combustion in sealed quartz tubes. The obtained carbon dioxide was converted at 550°C into graphite by using ultrahigh purity Hydrogen as reducing medium and 2 mg iron powder as catalyst. The sample yielded enough graphite to allow an accurate determination of the radiocarbon age by the accelerator mass spectrometer.

The radiocarbon concentrations have been determined in the accelerator mass spectrometer by comparing the ^{12}C , ^{13}C currents and the ^{14}C counts obtained from the



samples with those obtained from standard materials supplied by IAEA (International Atomic Energy Agency) and NIST (National Institute of Standard and Technology).

The "conventional radiocarbon age" was calculated with a $\delta^{13}\text{C}$ correction based on the $^{13}\text{C}/^{12}\text{C}$ ratio measured directly with the accelerator. For the estimation of the measurement uncertainty (standard deviation) both the radioisotope counting statistics and the scattering of the data have been taken into account. The larger of the two is given as final error in Table 2.

The conventional radiocarbon ages have been calibrated, when possible, in calendar ages by using the last internationally accepted calibration curva (INTCAL2020) for atmospheric data.

<i>Sample</i>	<i>Radiocarbon Age (BP)</i>	<i>Notes</i>
LTL 34773	3160 $\pm$ 30	
LTL 34774	4523 $\pm$ 30	
LTL 34775	819 $\pm$ 30	
LTL 34776	3892 $\pm$ 30	

TABLE 2. MEASURED VALUES.

The conventional radiocarbon ages of the samples were converted into calendar years by using the software OxCal Ver. 3.5 based on the last atmospheric dataset [Reimer PJ, et al. 2013 *Radiocarbon* 55 No. 4-1869-1887 (]. The results of the calibration are reported in the following figures.

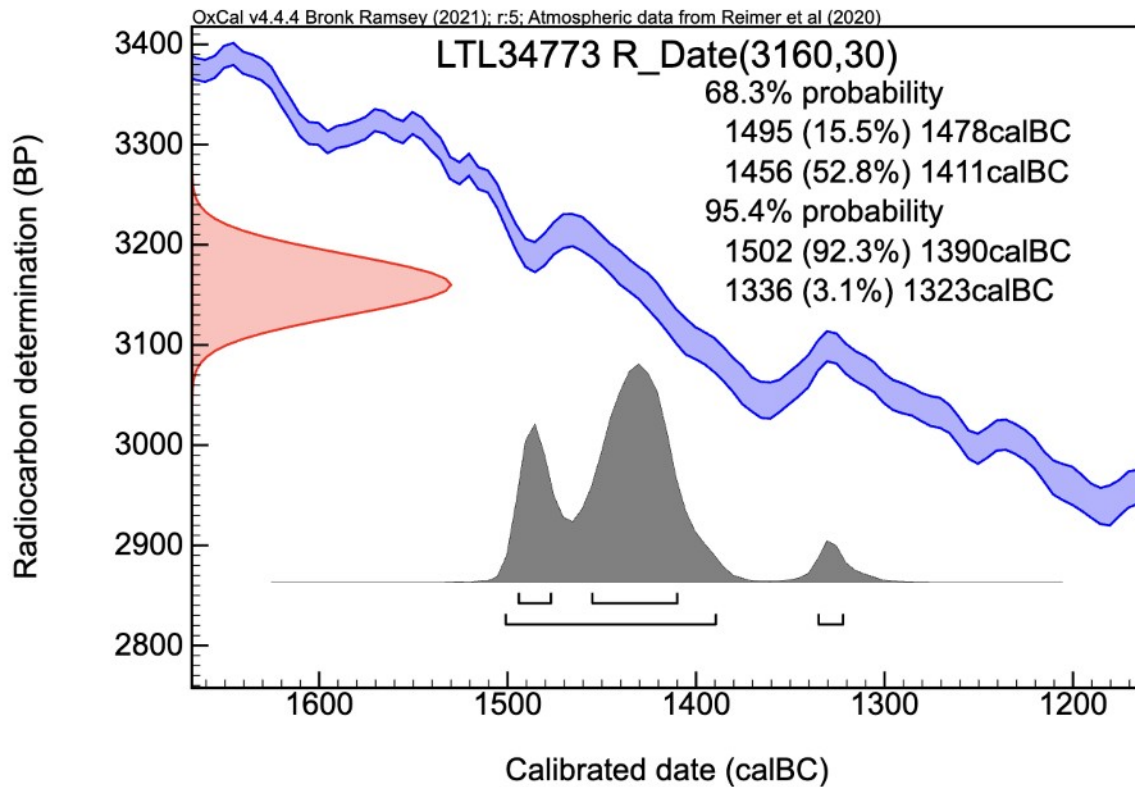


Figure 1. Calibration of the radiocarbon age of the sample LTL34773.

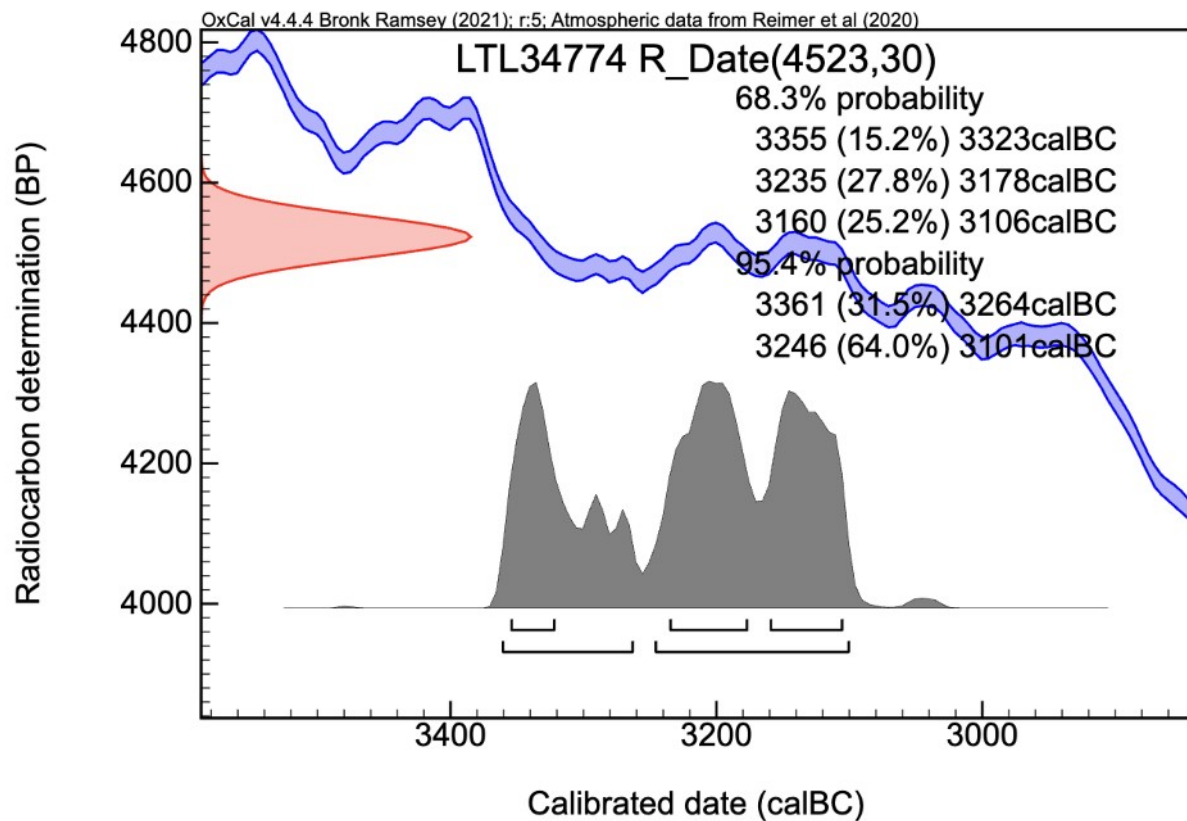


Figure 2. Calibration of the radiocarbon age of the sample LTL34774.

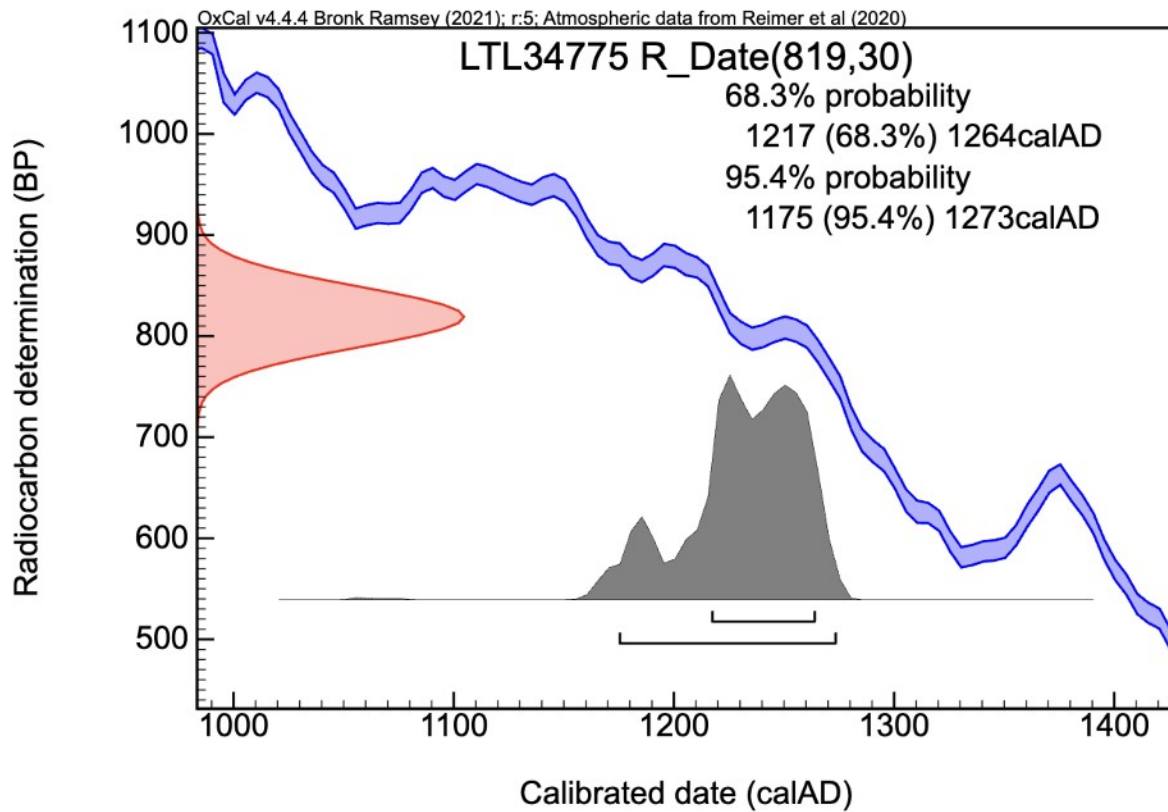


Figure 3. Calibration of the radiocarbon age of the sample LTL34775.

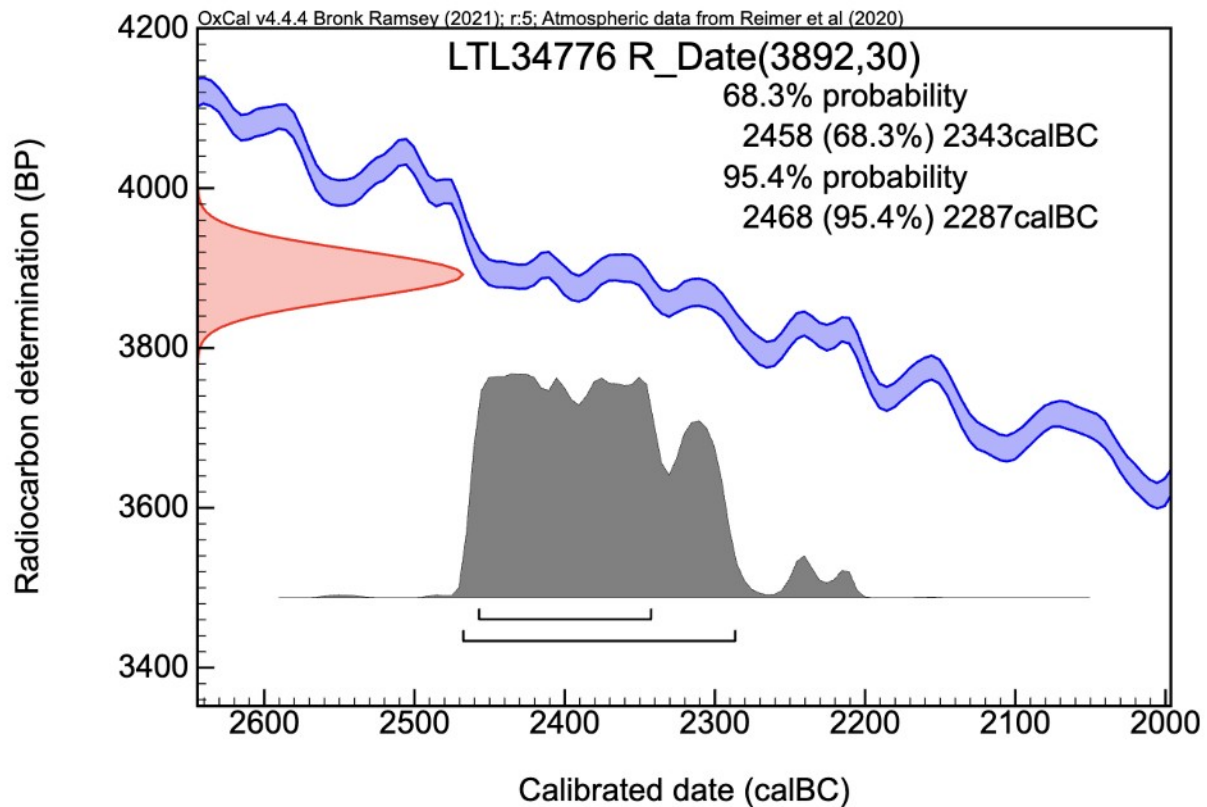


Figure 4. Calibration of the radiocarbon age of the sample LTL34776.

Best Regards,

Prof. Dr. Lucio Calcagnile

Director, Centro di Datazione e Diagnostica dell'Università del Salento