Accelerated Mass Spectrometry Radiocarbon Determination of Papyrus Samples

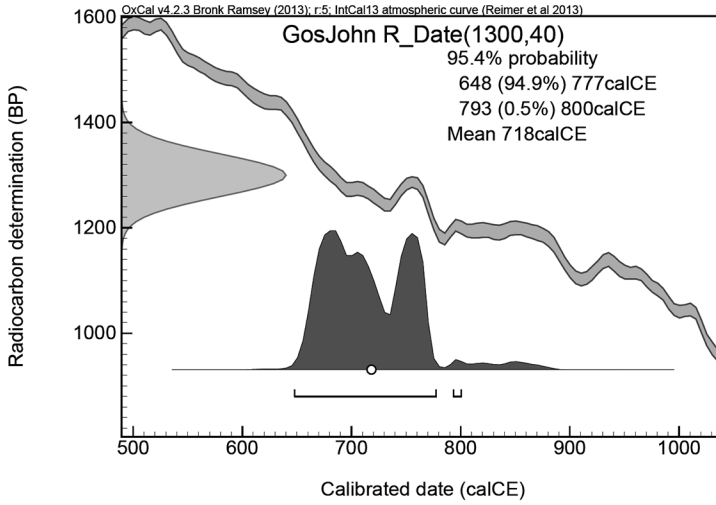
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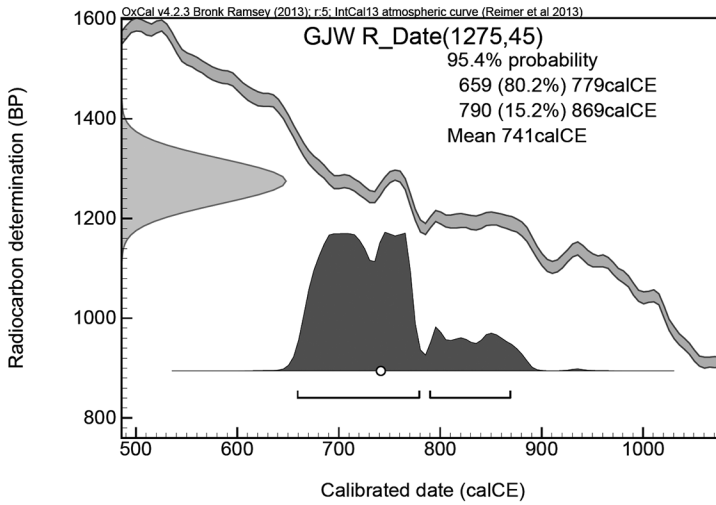
Date of Study: March 8, 2014

Date no.:	OS-108802	OS-108803
Sample	Gospel of John	*Gospel of Jesus's Wife*
$\delta^{13}C$:	–9.0‰	–12.0‰
Fraction of modern carbon:	0.85030±0.00410	0.85670±0.00500
2 sigma,		
95.4% calibrated age ranges:	648 cal C.E. to 800 cal C.E.	659 cal C.E. to 869 cal C.E.
Median date:	718 cal C.E.	741 cal C.E.

The calibrated ages are calculated using known-age tree ring radiocarbon measurements (INTCAL13) utilizing the OxCal program Version 4.2 (http://c14.arch.ox.ac.uk). Samples were prepared at the Tuross Laboratory at Harvard University, and the $\delta^{13}C$ values were measured in continuous flow using a Costech ECS 4010 elemental analyzer coupled to a Thermo Delta Plus XP mass spectrometer and reported in ‰ relative to PDB. Accelerator mass spectrometry was performed at the National Ocean Sciences Accelerator Mass Spectrometry Facility (NOSAMS) at the Woods Hole Oceanographic Institute in Woods Hole, Massachusetts.

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