

[Supplementary material]

Radiocarbon-dating an early minting site: the emergence of standardised coinage in China

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Figure S1. Charred foxtail millet seeds from sublayer-1 of pit H2032; they were used for the radiocarbon-dating assay (photograph by H. Zhao).

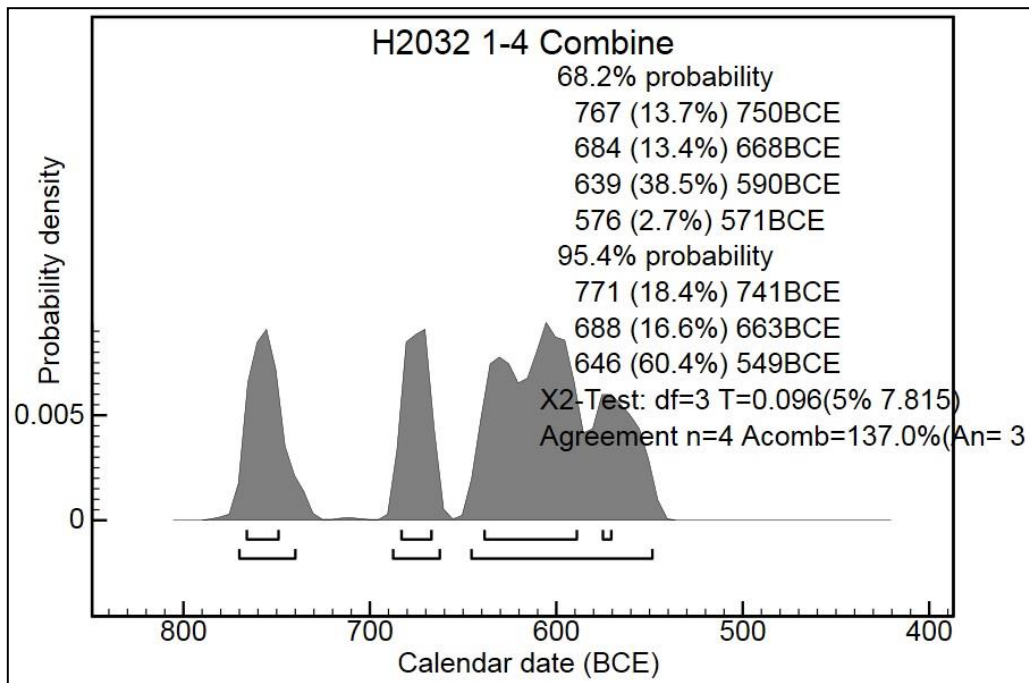


Figure S2. Modelled radiocarbon date of Sublayers 1–4 of Pit H2032, using OxCal 4.3, and the IntCal13 calibration curve (figure by H. Zhao; Reimer et al. 2013; Bronk Ramsey 2017).

Table S1. Measurement of clay cores and the related coefficient of variance.

No.	Context	CB top width (mm)	CB top thickness (mm)	Batch mark type
C1	T1611-1-3	14.18	12.46	A
C2	H2032-3	15.15	13.08	A
C3	T1611-1-3	14.43	13.01	A
C4	H2032-1	14.58	12.90	B
C5	H2019-3	14.86	12.55	B
C6	H2032-3	14.89	12.80	C
C7	H2032-1	14.56	13.05	C
C8	H2032-3	14.16	12.49	C
C9	H2028-1	14.65	12.57	D
C10	H1790	14.91	13.13	E
C11	H2032-1	14.84	13.11	E
C12	T1611-1-3	14.12	12.45	E
C13	H2032-3	14.90	12.29	F
C14	T1611-1-3	14.72	12.54	G
C15	H2032-3	14.52	12.08	G
C16	T1612-2-3	14.22	12.44	H
C17	H2030	14.38	12.91	
C18	H2032-1	NA	NA	
C19	H2032-3	NA	NA	
C20	H2032-3	NA	NA	
C21	H2032-3	NA	NA	
C22	H2032-3	NA	NA	
C23	H2032-3	NA	NA	A
C24	H2032-3	NA	NA	A
C25	H2032-3	NA	NA	A
C26	H2032-3	NA	NA	A
C27	H2032-3	NA	NA	A
C28	H2032-3	NA	NA	A

C29	H2032-3	NA	NA	
C30	H2032-2	NA	NA	B
C31	H2032-4	NA	NA	B
C32	H2032-3	NA	NA	B
C33	T1611-1-3	NA	NA	B
C34	H2032-3	NA	NA	
C35	H2032-1	NA	NA	
C36	H2032-1	NA	NA	
C37	H2032-3	NA	NA	C
C38	H2032-3	NA	NA	C
C39	H2032-3	NA	NA	C
C40	H2032-3	NA	NA	C
C41	H2032-3	NA	NA	C
C42	H2032-2	NA	NA	
C43	H2032-2	NA	NA	D
C44	T1611-3-3	NA	NA	D
C45	H2032-3	NA	NA	D
C46	H2032-3	NA	NA	
C47	H2032-3	NA	NA	
C48	H2032-3	NA	NA	
C49	H2032-3	NA	NA	I
C50	H2032-3	NA	NA	I
C51	H2032-1	NA	NA	
C52	H2032-2	NA	NA	
C53	H2032-2	NA	NA	
C54	H2032-2	NA	NA	
SD		0.31	0.32	
Average		14.59	12.7	
CV		2.13%	2.54%	

Table S2. Conventional and calibrated ¹⁴C dates of all the samples analysed.

Lab no.	Context	Material	Radiocarbon age (BP)	Calibrated age 1σ±year BC (68.2%)	Calibrated age 2σ±year BC (95.4%)
Beta-541066	H2193	Millet seeds	2490±30	762–734 (11.6%)	781–510
				689–662 (11%)	
				648–546 (45.6%)	
	Combined H2032-1 to 4			767–750 (13.7%)	771–741 (18.4%)
			684–668 (13.4%)	688–663 (16.6%)	
			639–590 (38.5%)	646–549 (60.4%)	
			576–571(2.7%)		
Beta-541069	H2032-1	Millet seeds	2500±30	767–744 (11.1%)	788–537
				687–665 (10.8)	
				644–552 (46.4%)	
Beta-541065	H2032-2	Millet seeds	2500±30	767–744 (11.1%)	788–537
				687–665 (10.8)	
				644–552 (46.4%)	
Beta-541068	H2032-3	Millet seeds	2510±30	772–747 (13.4%)	791–701 (27.7%)
				685–666 (10.5%)	696–540 (67.7%)
				642–556 (44.3%)	
Beta-532506	H2032-4	Charcoal	2510±30	772–747 (13.4%)	791–701 (27.7%)
				685–666 (10.5%)	696–540 (67.7%)
				642–556 (44.3%)	
Beta-532508	H2032-5	Charcoal	2500±30	767–744 (11.1%)	788–537
				687–665 (10.8)	
				644–552 (46.4%)	
Beta-532505	H2032-6	Charcoal	2500±30	767–744 (11.1%)	788–537
				687–665 (10.8)	
				644–552 (46.4%)	
Beta-532507	H2223	Charcoal	2580±30	802–773(68.2%)	814–750 (86.8%)
					684–668 (3.2%)
					637–621 (1.4%)
					616–590 (4.0%)
Beta-541067	H2186	Millet seeds	2580±30	802–773(68.2%)	814–750 (86.8%)
					684–668 (3.2%)
					637–621 (1.4%)
					616–590 (4.0%)

References

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REIMER, P.J. *et al.* 2013. IntCal13 and Marine13 radiocarbon age calibration curves 0–50 000 years cal BP. *Radiocarbon* 55: 1869–87. https://doi.org/10.2458/azu_js_rc.55.16947