

Table S1. Data relevant to the ratio of interior floor space to the total footprint area in the Shirenzigou structures.

Structures	Indoor area (m ²)	Footprint area (m ²)
F7(Upper level)	204,3	851,1
F7(Lower level)	189,5	348,6
F1	76,307	127,846
F2	111,6	177
F3	181,3	269,6
F4	178,3	278,3
F6	106,792	137.746

Table S2. Data relevant to the density of the features, ceramics and other artifacts (pottery, stone and metal items) in the Shirenzigou structures.

Structure	Max stove area (m ²)	Max ash pit area (m ²)	Total area of stove and ash pit (m ²)	Pottery shard/m ²	Artifact/m ²
F7(Upper level)	2,13	6,97	15,9	41,7	0,8
F7(Lower level)	1,8	4,23	11	121,9	1,4
F1(Lower level)	1,09	2,28	4,8	2	0,4
F2(Upper level)	Unclear	1,41	3,1	3,4	0,3
F2(Lower level)	0,83	1,48	4,7	Unclear	Unclear
F3(Upper level)	0,66	3,46	9,8	Unclear	Unclear
F3(Lower level)	0,6	0,95	6,6	21,5	0,4
F4(Upper level)	0,92	1,4	8,5	5,5	0,3
F6(Upper level)	1,23	Unclear	Unclear	Unclear	Unclear

Table S3. Calibrated radiocarbon dates for Shirenzigou from the Accelerator Mass Spectrometry Dating Laboratory of Peking University and calibrated using OxCal and IntCal20 [64,65].

Context	Laboratory number	Testing Institution	Material	Uncalibrated Date BP	Error	Calibrated Age BCE at 95.4%	Reference
F7-H1	BA061060	Peking University	Charcoal	2801	50	1109-828	[122]
F7-Y1	BA061058	Peking University	Charcoal	2762	45	1009-815	[122]
F7-Z2	BA061062	Peking University	Charcoal	2767	40	1008-824	[122]
DM5JM	BA110577	Peking University	Caprine bone	2748	30	979-817	This study
F3DM7JM	BA110579	Peking University	Caprine bone	2709	25	904-810	This study

F7-H11	BA110571	Peking University	Caprine bone	2743	25	967-818	[61]
F7-H19	BA110575	Peking University	Caprine bone	2840	25	1108-917	This study
F7-H19	Beta-497972	Beta	Highland Barley	2796	30	1043-838	[32] [61]
F7-H19	Beta-497973	Beta	Wheat	2825	30	1107-901	[32] [61]
F2-H57	BA110572	Peking University	Caprine bone	2835	30	1109-908	This study
F7-H25	BA110574	Peking University	Caprine bone	2811	25	1046-901	[61]
F1-H39	BA110573	Peking University	Caprine bone	2743	25	967-818	This study
F1-H31	BA110568	Peking University	Horse bone	2913	25	1204-1016	[61]