

Supporting Information

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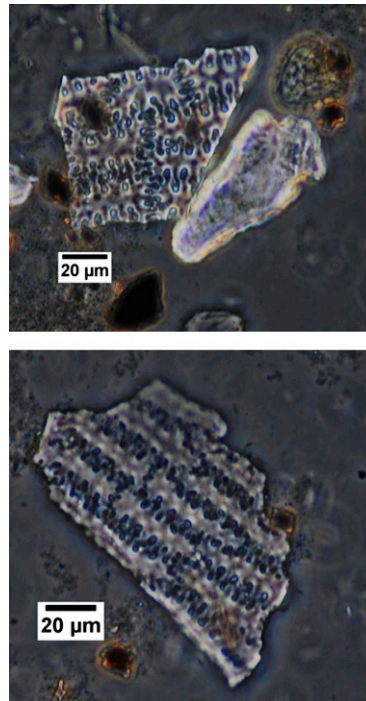


Fig. S1. Phytoliths of broomcorn millet recovered from the ash sample collected from a fireplace (field no. T4:HD8) of the late occupational phase of the Donghulin site.

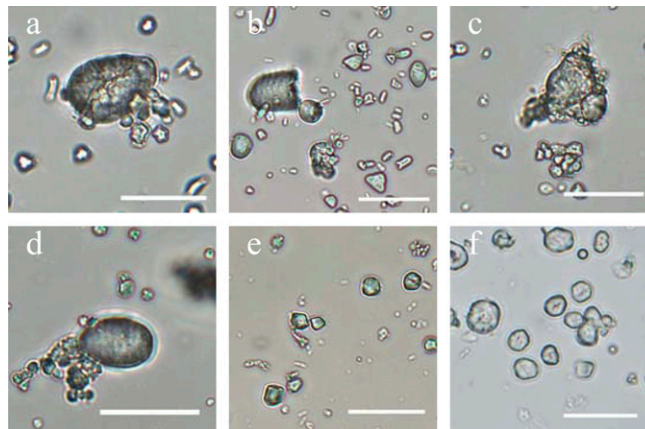


Fig. S2. Starch grains from some modern species within Poaceae. (A) *Lolium perenne*, simple and compound starch grains. Range, 2.8–8.0 μm ; mean, $4.8 \pm 0.8 \mu\text{m}$. (B) *Poa annua*, simple and compound starch grains. Range, 2.6–5.3 μm ; mean, $4.1 \pm 0.9 \mu\text{m}$. (C) *Milium effusum*, simple and compound starch grains. Range, 2.6–5.3 μm ; mean, $3.7 \pm 0.5 \mu\text{m}$. (D) *Alopecurus aequalis*, simple and compound starch grains. Range, 2.2–4.2 μm ; mean, $3.3 \pm 0.6 \mu\text{m}$. (E) *Digitaria sanguinalis*, range, 4.0–8.3 μm ; mean, $5.8 \pm 1.0 \mu\text{m}$. (F) *Echinochloa colonum*, range, 5.6–14.0 μm ; mean, $8.9 \pm 1.6 \mu\text{m}$. (Scale bar: 10 μm .)

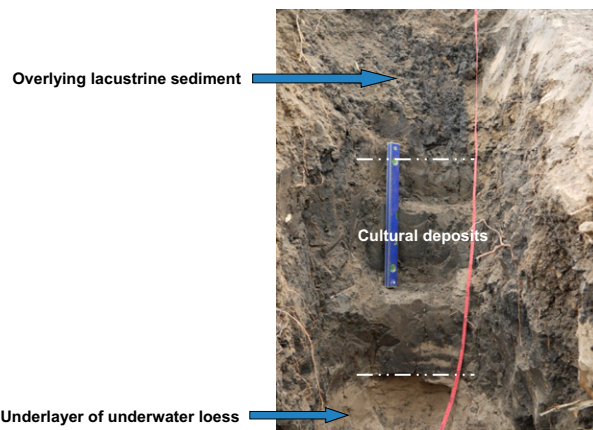


Fig. S3. Strata from which the control samples were collected at the Nanzhuangtou site. The length of blue leveling rod is 50 cm.

Table S1. Dates from the Nanzhuangtou site

Lab no.	Sample	^{14}C , y B.P., uncalibrated	Calibrated dates, y B.P., 68%	Calibrated dates, y B.C.
BK87086	Organic silt	9,980 \pm 100	11,512 \pm 185	9,562 \pm 185
BK87088	Organic silt	10,815 \pm 140	12,798 \pm 134	10,848 \pm 134
BK86120	Wood	9,875 \pm 160	11,411 \pm 261	9,461 \pm 261
BK86121*	Wood	9,690 \pm 95	11,018 \pm 163	9,068 \pm 163
BK87093	Wood	9,810 \pm 100	11,248 \pm 129	9,298 \pm 129
BK87075*	Charcoal	10,510 \pm 110	12,408 \pm 211	10,458 \pm 211
BK89064	Wood	9,850 \pm 90	11,337 \pm 122	9,387 \pm 122

*Samples were collected from zone 5. Dates were calibrated by online Calpal software (<http://www.calpal-online.de/>).