Appendix S2: Supplementary Data

The file bp\_fossils.csv contains the *Bison priscus* fossil data used in our analysis. Here we describe the columns in the dataset.

**long**: Longitude of the fossil site, in decimal degrees.

**lat**: Latitude of the fossil site, in decimal degrees.

**lab.no**: The laboratory number of the radiocarbon-dated sample.

**Error**: The error of the uncalibrated radiocarbon date, in radiocarbon years before present.

**Age**: The uncalibrated radiocarbon date, in radiocarbon years before present.

**Site**: The name of the fossil site, or its nearest town or geographical feature.

**State**: State where the fossil site is located.

**Country**: Country where the fossil site is located.

**Continent**: Continent where the fossil site is located.

**Geo\_comments:** Notes on the geocoding of the fossil location.

**DNA\_AN**: The DNA accession number in GenBank.

**Dating\_Method**: The carbon-14 dating method, either C14 for conventional carbon-14 dating or AMS-C14 for accelerator mass spectrometer carbon-14 dating.

**CN\_ratio\_val**: The carbon/nitrogen ratio in the dated sample.

**Material**: The material that was radiocarbon-dated.

**yr\_dating**: The year when the radiocarbon date was measured.

**post.1980**: Was the radiocarbon date measured after the year 1980?

**Pretreatment**: The pretreatment used on the radiocarbon sample before dating.

**Barnosky\_score**: The quality for the radiocarbon date according to the Barnosky and Lindsey criteria.

**Delta\_13C**: The ratio of 13C:12C in parts per thousand as a deviation from the PDB standard.

**OxCal\_error**: The error of the date calibrated in OxCal on the IntCal13 curve.

**OxCal\_age**: The date in cal yr BP, calibrated in OxCal on the IntCal13 curve.