

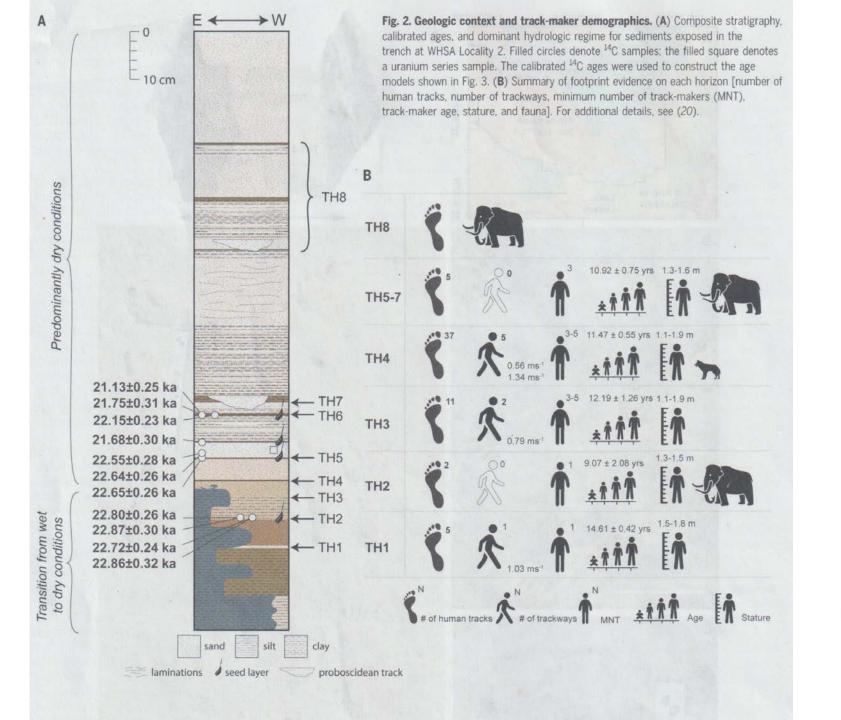
Fig. 1. Study area and ancient footprints found at WHSA Locality 2.

(A) Map showing approximate location of the study site. In accordance with the Archaeological Resources Protection Act of 1979, the National Parks Omnibus Management Act of 1998, and the Paleontological Resources Preservation Act of 2009, the precise location of the site is withheld. Interested parties may contact

the National Park Service for this information, given a legitimate reason.

(B) Human footprints on track horizon 4 (TH4). (C) Human footprint on TH5, located in the base of the main trench. (D) Surfaced 3D model of part of the main trench showing three human footprints on different surfaces on the trench floor. (E) Human trackways on TH4.

Bennet et al. Science 373, 1528-1531, 24 Sept 2021



Bennett et al. Science 373, 1528-1531, 24 Sept 2021

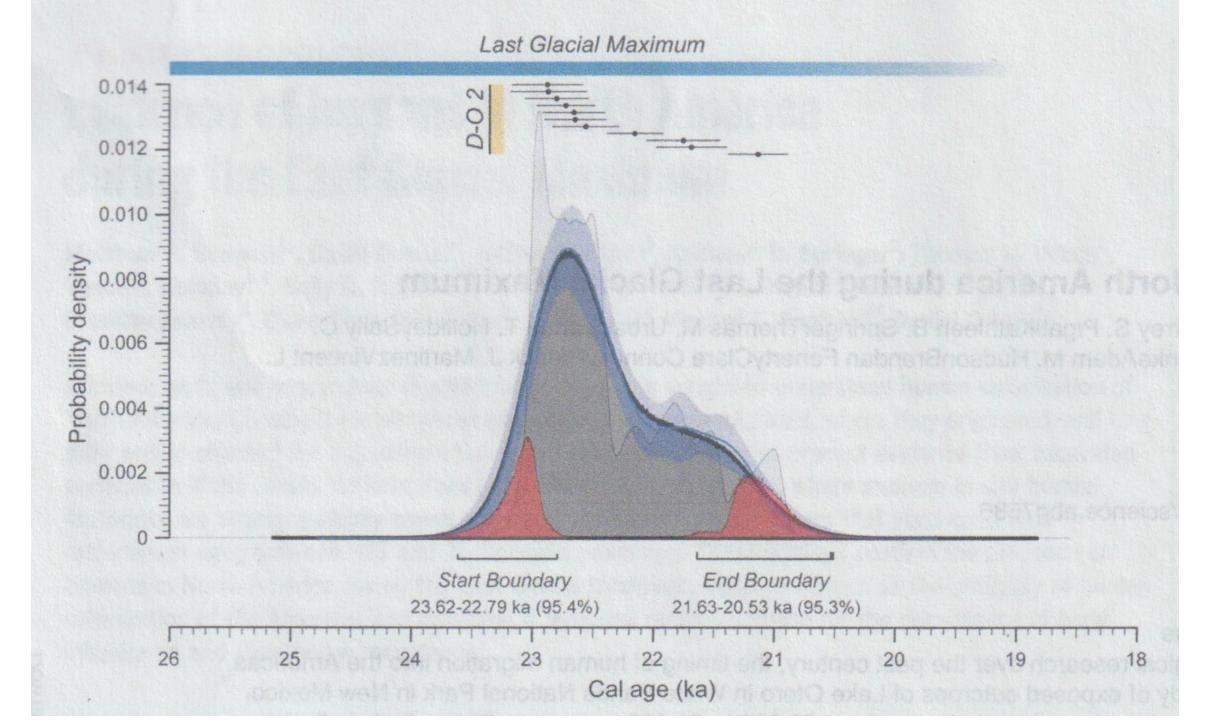




Fig. 1. North American Ice Sheet extents and potential colonization pathways. Extent of the Cordilleran and Laurentide ice sheets at 19 ka ago (white) and 15.5 ka ago. Areas of exposed continental shelf at 19 ka ago are shown in brown (6). Yellow stars indicate locations of offshore marine data discussed in the main text.

Lesnek et al., Sci. Adv., 2018, 4, 30 May

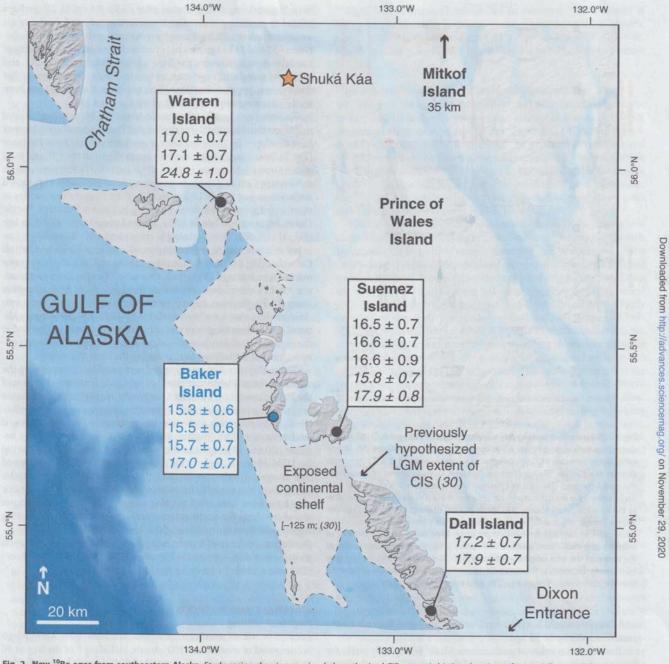


Fig. 2. New ¹⁰Be **ages from southeastern Alaska.** Study region showing previously hypothesized CIS extent (white) and regions of potentially exposed continental shelf (solid gray; determined by subtracting 125 m from modern sea level) during the LGM (*30*). Sampling sites for ¹⁰Be dating were selected within areas hypothesized by Carrara *et al.* (*30*) to have been ice-free during the LGM. Boulder (normal text) and bedrock (italicized text) ¹⁰Be ages (thousand years; 1 SD external uncertainty) constrain CIS (black) and local deglaciation (blue) and demonstrate that sampling sites were not ice-free refugia. The location of Shuká Káa cave on Prince of Wales Island is marked with an orange star.

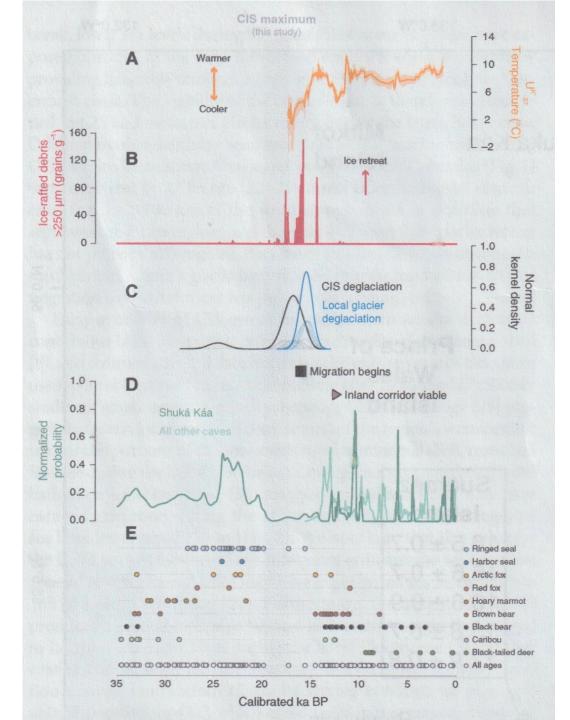


Fig. 3. Climate records and key chronologies along the Pacific coast. (**A**) Alkenone-derived sea surface temperature reconstruction from the Gulf of Alaska (*36*). (**B**) Icerafted debris from core MD0299, collected near Vancouver Island (*23*). (**C**) Composite diagram of individual ¹⁰Be ages from southeastern Alaska (gray and light blue lines; this study), summed ¹⁰Be ages for CIS deglaciation (black lines; this study), and local deglaciation (blue lines; this study). (**D**) Timing of the first pulse of human migration to the Americas [black square; (*13*)], the ecological opening of the inland corridor [purple triangle; (*8*)], and ¹⁴C ages from Shuká Káa (dark green lines; this study) and other caves in southeastern Alaska (light green lines; this study). (**E**) Timeline of selected cave fauna from southeastern Alaska [(*29*); this study]. Dots represent the means of the total range of each calibrated ¹⁴C age (this study). Vertical gray bar denotes the timing of maximum CIS extent in southeastern Alaska determined from the cave fauna ¹⁴C ages and ¹⁰Be ages reported in this study.



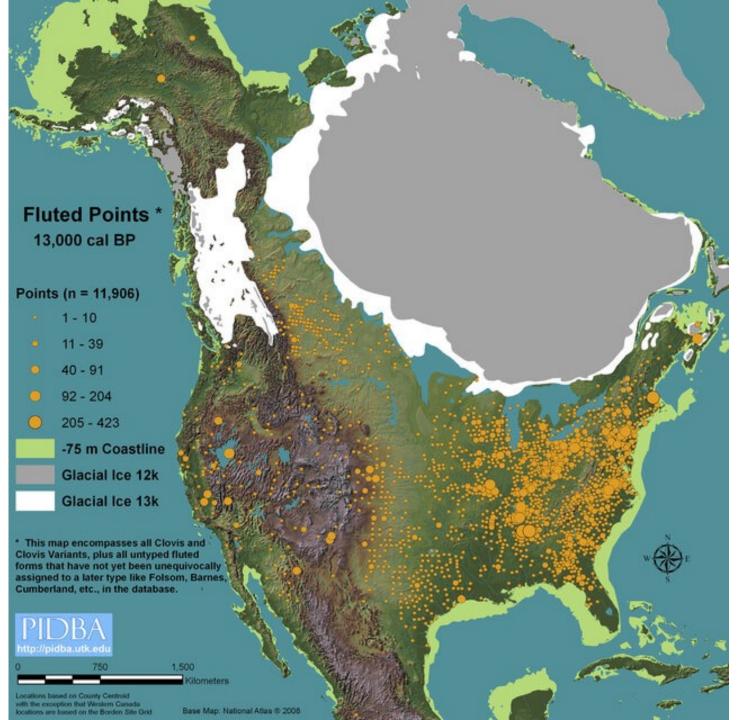
Lake Winnemucca Petroglyphs



Bisected chevron design. The tree form is 70 cm tall.

"The lake in the Winnemucca Lake subbasin fell beneath its spill point between 14.8 and 13.2 ka and also between 11.3 and 10.5 ka (or between 11.5 and 11.1 ka), exposing the base of the collapsed tufa mound to petroglyph carving."

L.V. Benson, E.M. Hattori, J. Southon, B. Aleck, 2013: Dating North America's oldest petroglyphs, Winnemucca Lake subbasin, Nevada. *Journal of Archaeological Science*, 40.



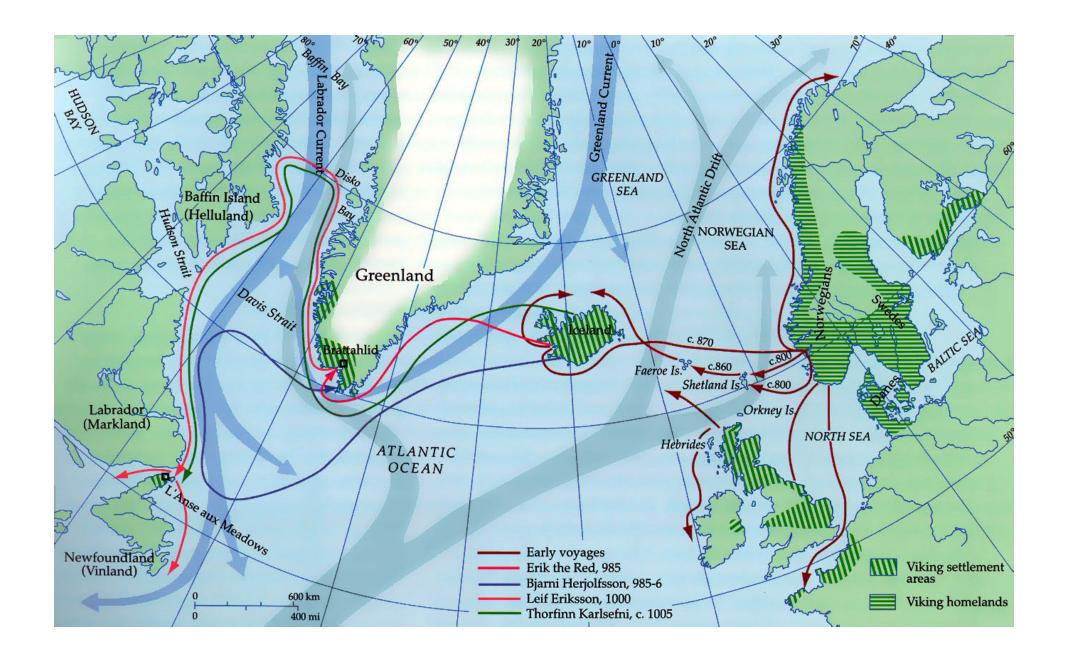
Charismatic megafauna Glyptodont Mastodon Mammoth

Left relict pairs
Catalpa
Osage orange













Vinland Map ~1400 or 1956?

Bright Bright or leutro food These decouvers 0 Magne Dandani
Brandani
Brandani
Pramilae
Pictor hipanoni Crinefie Mare Deraining

The same particular of the first particular particular and the same particular Decidentes Justin Thurso mp er trube found Muse Decommen