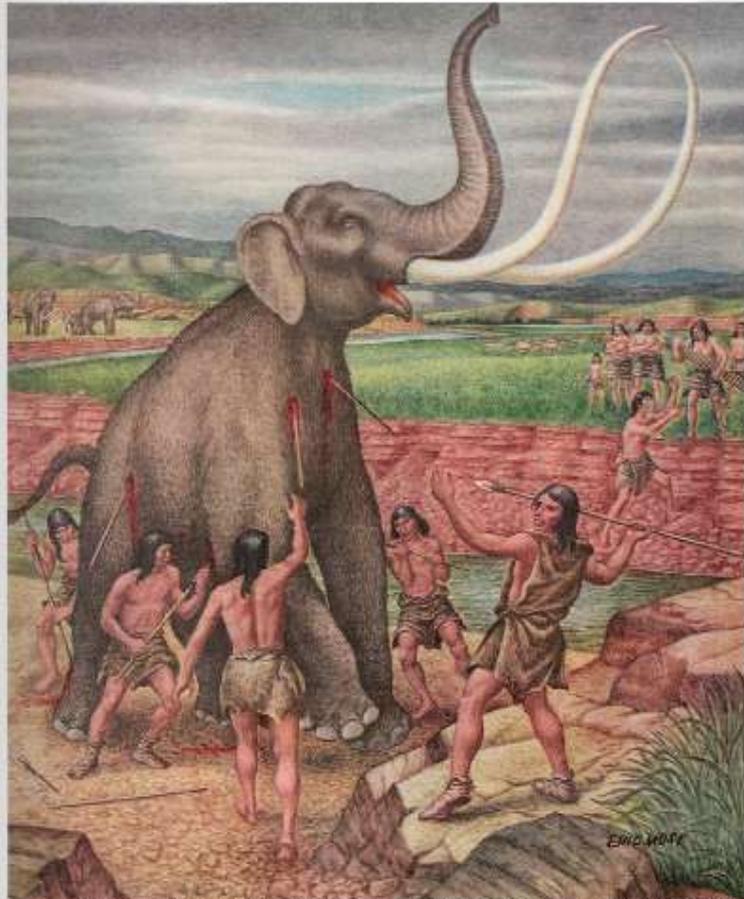


WHILE HUNTERS ATTACK A YOUNG COLUMBIAN MAMMOTH THEY HAVE CORNERED IN RIVER, OTHERS STRAY BEYOND FROM FALLS

# AN ARIZONA



BOY MANHOLD GUN TO HELP IN CATCHING THE MAMMOTH, OTHERS STRAY BEYOND FROM FALLS

# HUNT

A big, new prehistoric find reveals relics of the earliest hunt yet chronicled in America: a mammoth kill by Llano man 10,000 years ago, described for the first time on the following pages



## **Why hunt elephants?**

**Long pursuit**

**High risk**

**Labor-intensive processing**

**vs.**



# Proboscidean kill/scavenge sites



*Amante, C. and B. W. Eakins, ETOPO1 1 Arc-Minute Global Relief Model: Procedures, Data Sources and Analysis. NOAA Technical Memorandum NESDIS NGDC-24, 19 pp, March 2009. Modified from Surovell and Waguespack, Quaternary International 191 (2008) 82-97.*

# FLK North Oldupai Gorge, 1.75 Ma

carnivore – hominid – carnivore?

kill site?

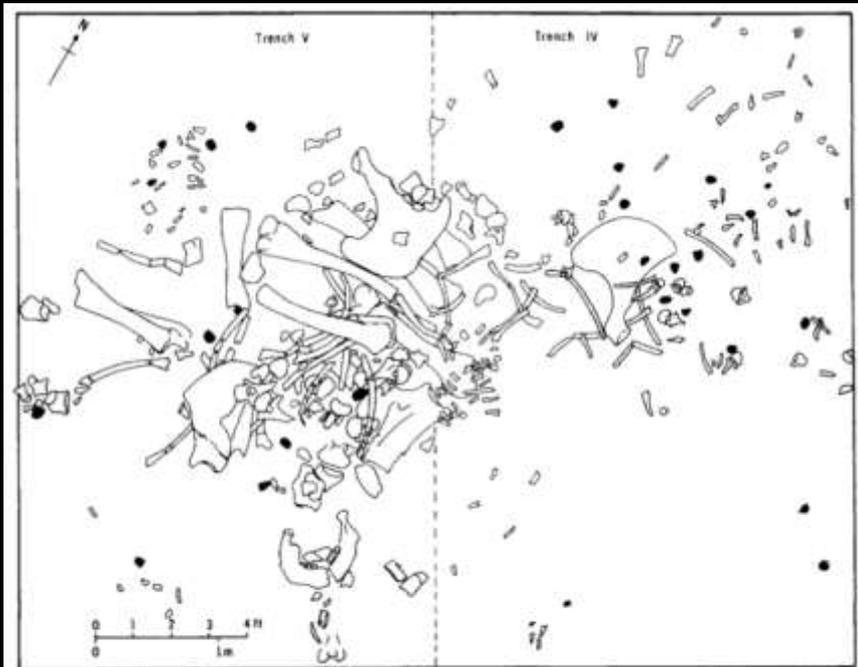
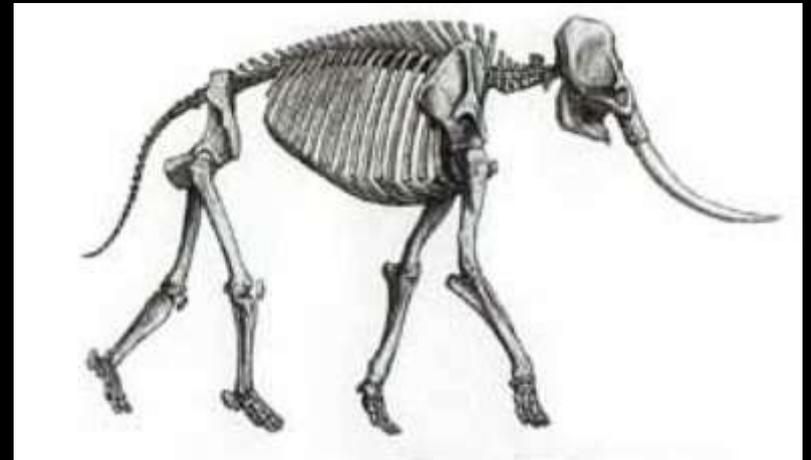


FIGURE 6.1. Site plan of FLK North-6, dominated by the partial skeleton of an elephant. Bones are shown in outline, stone artifacts are shown in black. Drawn from M. D. Leakey (1971).



Finished digital reconstruction of Turkana Boy

*Homo ergaster*,  
Viktor Deak, reconstruction of Turkana Boy



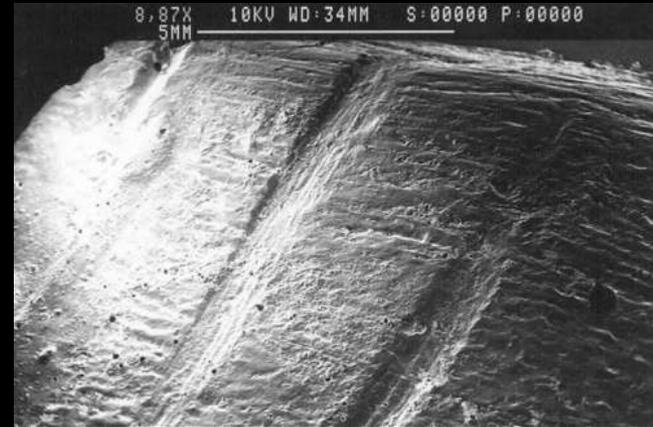
*Elephas recki*

# Ologesailie Basin, Kenya (990,000-year-old layer )

Elephant butchery site, where more than 2300 stone artifacts were found surrounding the bones of an extinct elephant, *Elephas recki*.



Excavation of the elephant butchery site. Image courtesy of Richard Potts, Smithsonian Institution.



SEM of cutmarks on *Elephas recki* rib from Site 15, Ologesailie Kenya. Image credit: Human Origins Program, Smithsonian Institution.

# Southfleet Road, Ebbsfleet, UK

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## Early signs of elephant butchers

**Bones and tusks dating back 400,000 years are the earliest signs in Britain of ancient humans butchering elephants for meat, say archaeologists.**



The tusks of the elephant stick out of the clay

Remains of a single adult elephant surrounded by stone tools were found in northwest Kent during work on the Channel Tunnel Rail Link.

Scientists believe hunters used the tools to cut off the meat, after killing the animal with wooden spears.

The find is described in the Journal of Quaternary Science.

The first signs of the Stone Age site were uncovered by constructors at Southfleet Road in Ebbsfleet, Kent.

Excavations revealed the skeleton of an extinct species of elephant (*Palaeoloxodon antiquus*) lying at the edge of what would once have been a small lake.

Flint tools lay scattered around, suggesting the animal had been cut up by a tribe of the early humans around at the time, known as *Homo heidelbergensis*.

"It is the earliest site of elephant butchery in Britain," Dr Francis Wenban-Smith of the University of Southampton told the BBC News website.

"In fact it is the only such site in Britain and it is very rare to find undisturbed evidence of this kind."

**Early hunting ground**

Dr Wenban-Smith believes the elephant, which was twice the size of those living today, was probably brought down by a pack of hunters armed with wooden spears.

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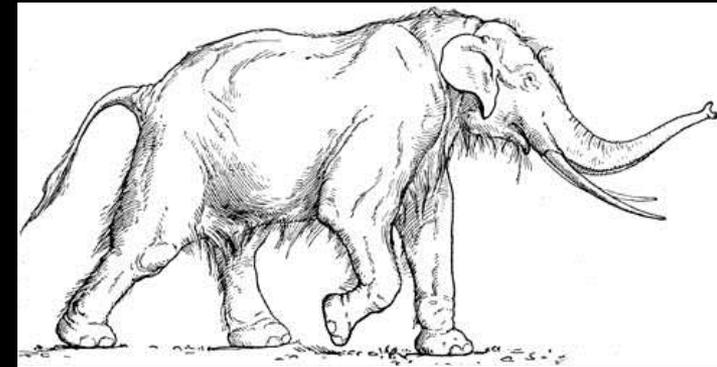
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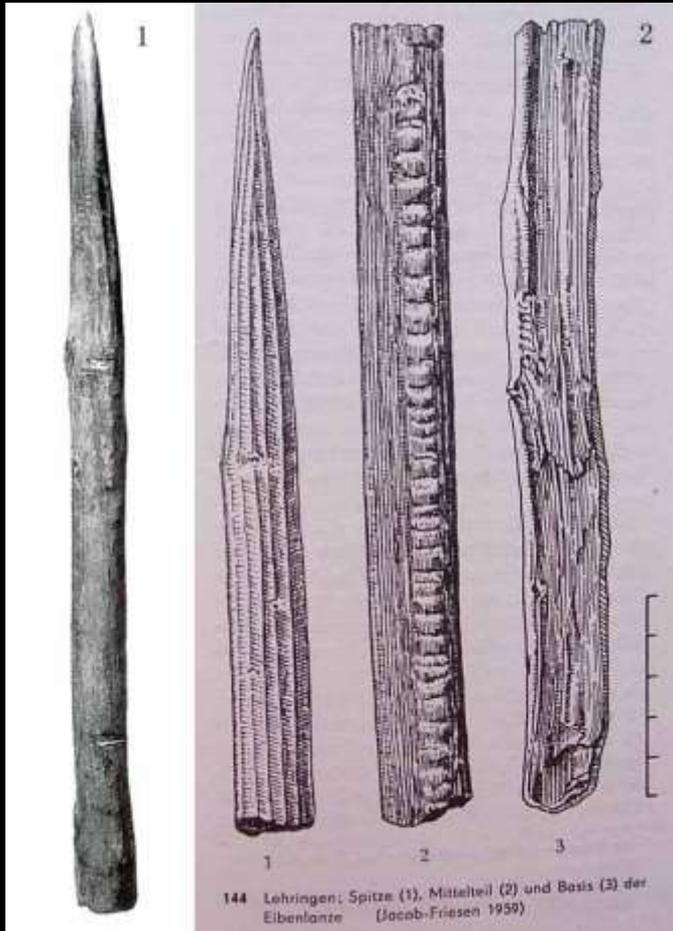
*Homo heidelbergensis*, (or proto Neanderthal) male. Reconstruction based on Kabwe by John Gurche for the Human Origins Program, NMNH; 3/4 view, left



*Elephas (Palaeoloxodon) antiquus*

# Lehringen, Germany

2.5 meter wooden thrusting spear found between the ribs of *Paleoloxodon antiquus*. ~125,000 yrs Old. Movius Jr., H.L., 1950. A wooden spear of the third interglacial age from lower Saxony. Southwestern Journal of Anthropology 6, 139-142.



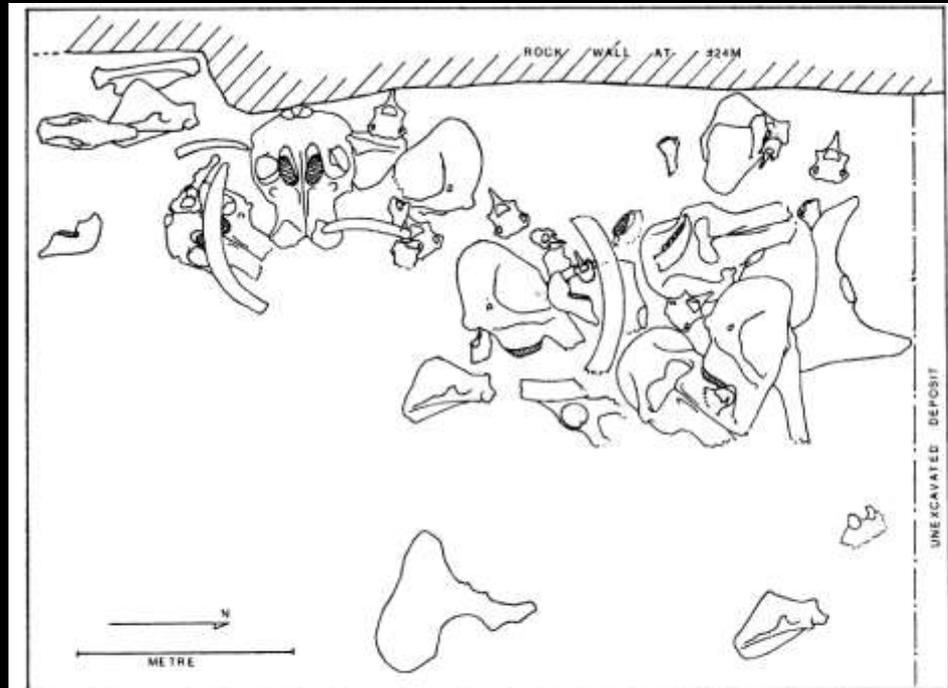
*Homo neanderthalensis*, adult male. Reconstruction based on Shanidar 1 by John Gurche for the Human Origins Program, NMNH; 3/4 view, left

# La Cotte de Saint-Brelade, Channel Islands, England

Mammoth driven over a cliff?

*Mammuthus primigenius*

>128,000 yrs old



*Figure 5* Schematic representation of the principal bones in Layer 3. Ribs, fragments of teeth and unidentifiable bone fragments are not illustrated. Shaded bones are those of rhinoceros; plain outlines are mammoth bones

Two Hunting Episodes of Middle Palaeolithic Age at La Cotte de Saint Brelade, Jersey (Channel Islands), Katharine Scott, *World Archaeology*, Vol. 12, No. 2, (Oct., 1980), pp. 137-152

# Lugovskoe, Central Siberia

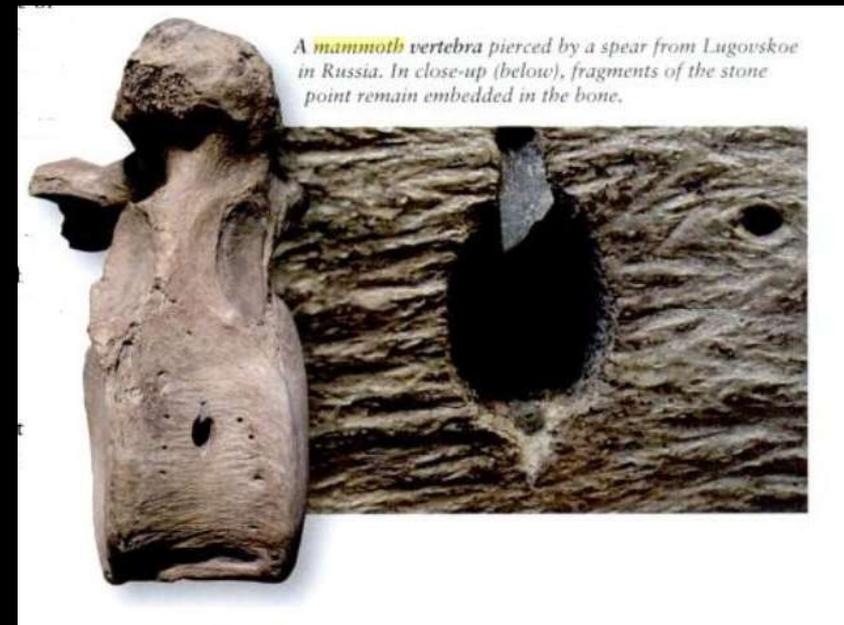
Accumulation of 27 mammoths

19,000 – 14,000 year ago

First/earliest direct evidence of mammoth hunting in Siberia



Mezherich, near Kiev in the Ukraine

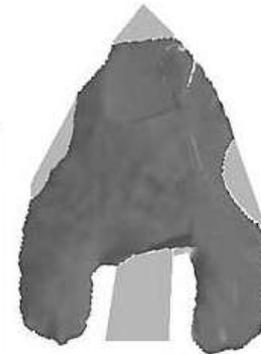
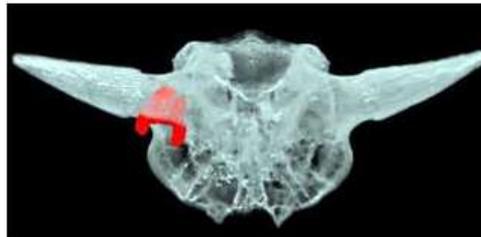


Driving Home a Point  
Point of No Return  
Get the Point?  
Pointing Out the Obvious  
Point Taken  
A Pointed Comment  
A Data Package from the Arkansas River

Leland Bement, Ernie Lundelius, Jr., and Richard Ketchum



**Calf Creek example:  
Compelling evidence for  
active killing with projectile  
point**



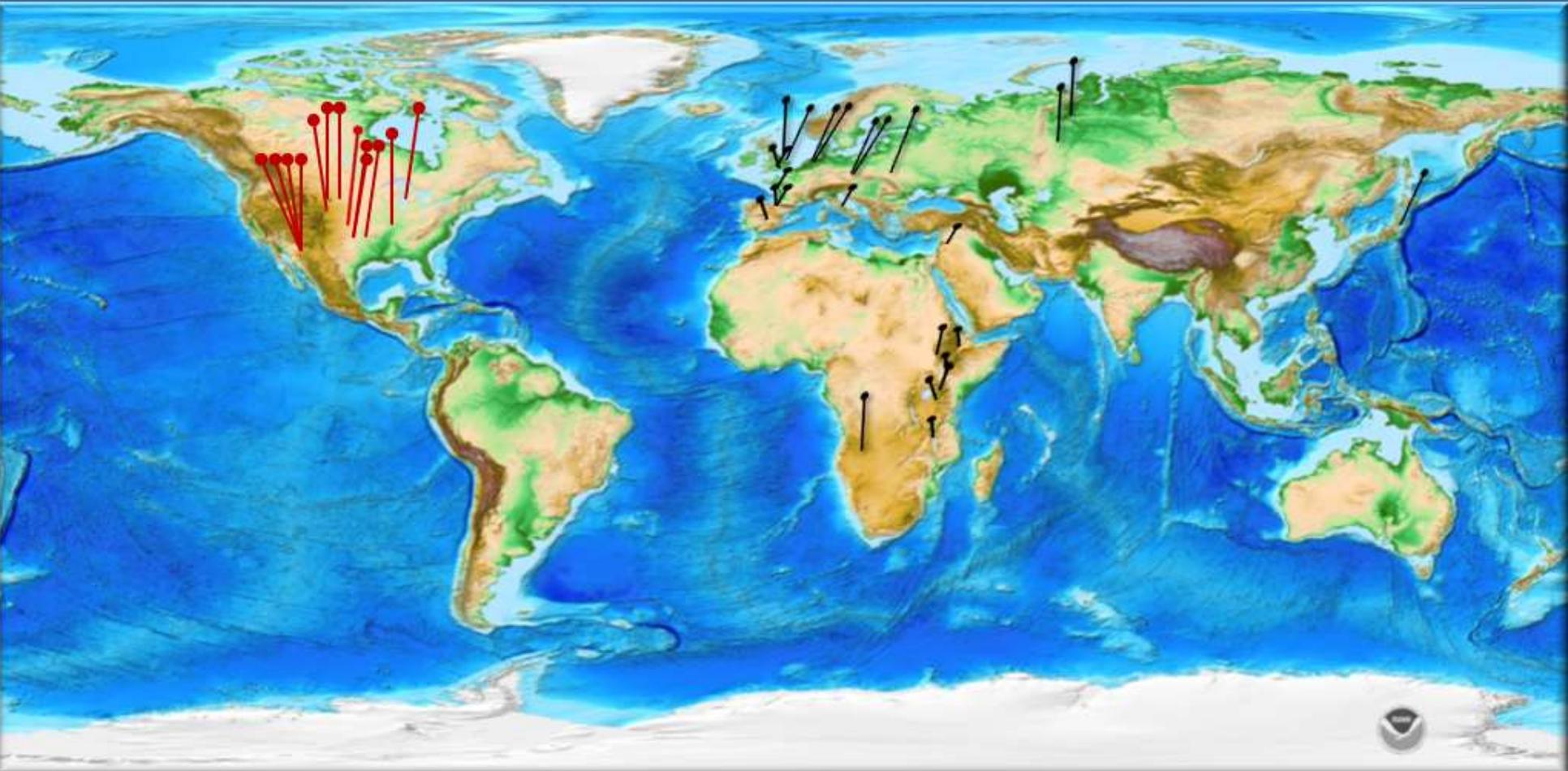
CT scan of the skull and the Calf Creek point

# Proboscidean kill/scavenge sites



*Amante, C. and B. W. Eakins, ETOPO1 1 Arc-Minute Global Relief Model: Procedures, Data Sources and Analysis. NOAA Technical Memorandum NESDIS NGDC-24, 19 pp, March 2009. Modified from Surovell and Waguespack, Quaternary International 191 (2008) 82-97.*

# Proboscidean kill/scavenge sites

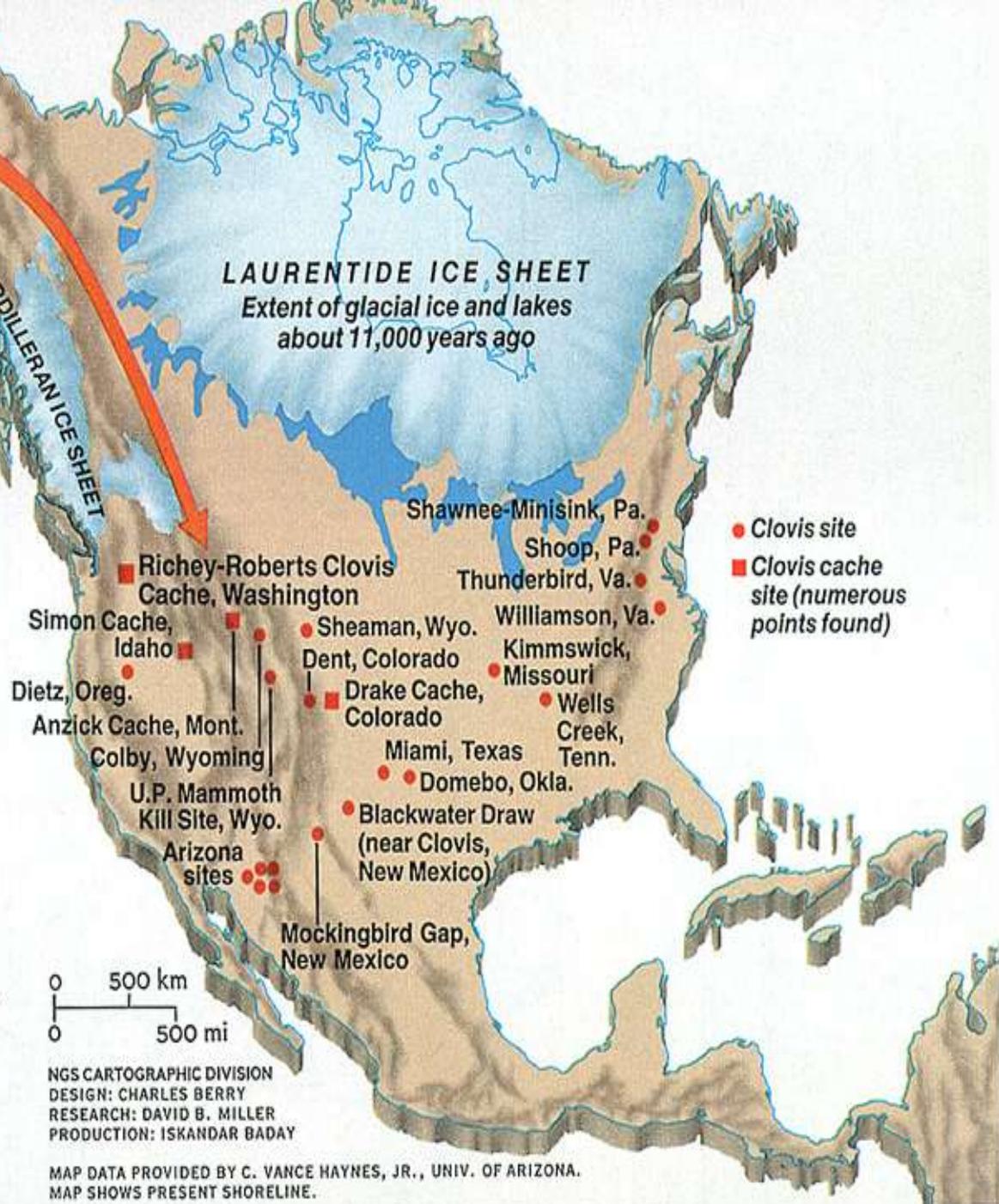


*Amante, C. and B. W. Eakins, ETOPO1 1 Arc-Minute Global Relief Model: Procedures, Data Sources and Analysis. NOAA Technical Memorandum NESDIS NGDC-24, 19 pp, March 2009. Modified from Surovell and Waguespack, Quaternary International 191 (2008) 82-97.*

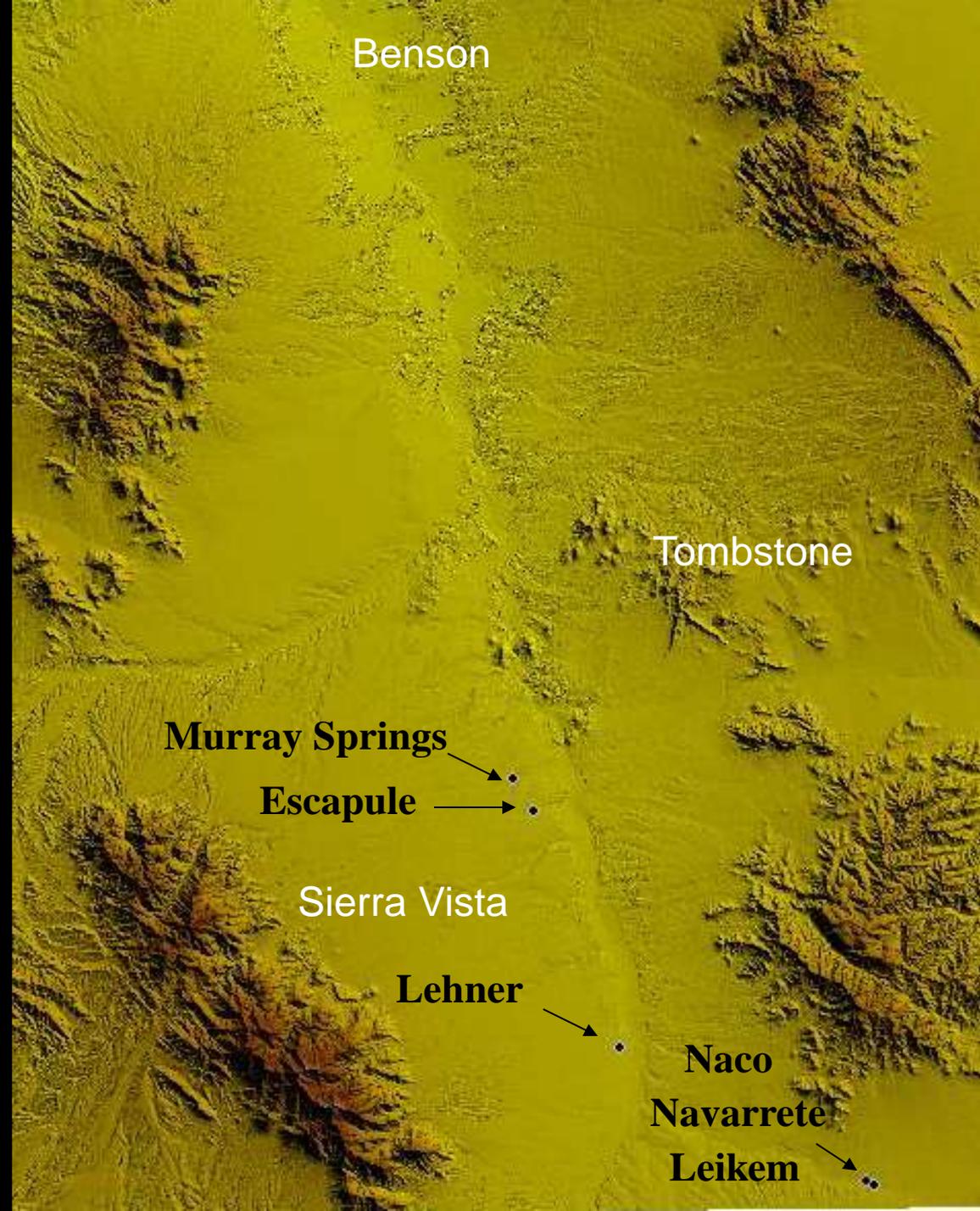
Pre-Clovis advance  
into North America  
from Beringia  
(see pages 436-7)

## Clovis hunters swept the continent

**E**arliest undisputed inhabitants of the Americas, the people known as Clovis descended from late Pleistocene hunters who moved south from Canada, probably through an ice-free corridor that had opened by 12,000 years ago. Skilled at taking mammoth, bison, and other Ice Age animals, they used distinctively fluted spearpoints recovered at sites throughout the U. S. Initial digging at the Richey-Roberts Clovis Cache has exposed the largest Clovis points yet found.



# The densest concentration on Earth?



# Leikem



# Escapule



# Navarrete



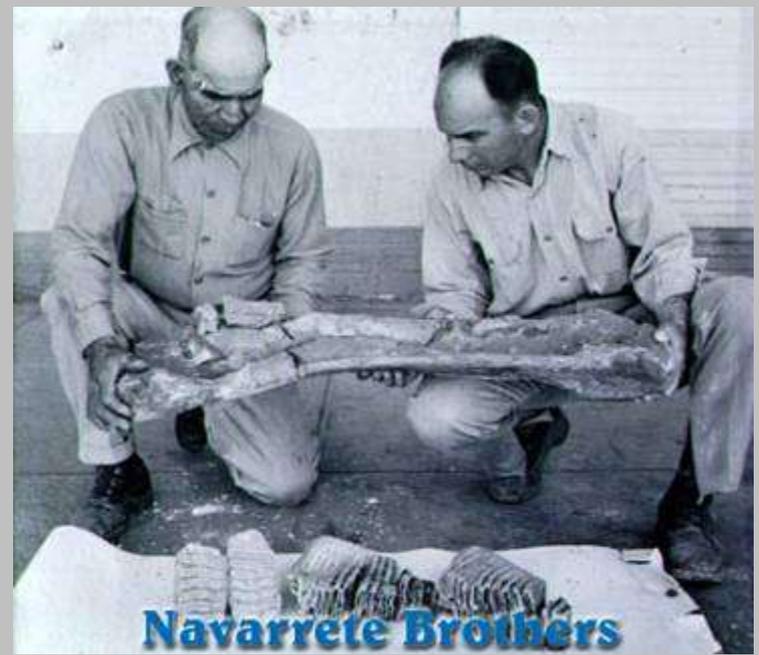
# Murray Springs



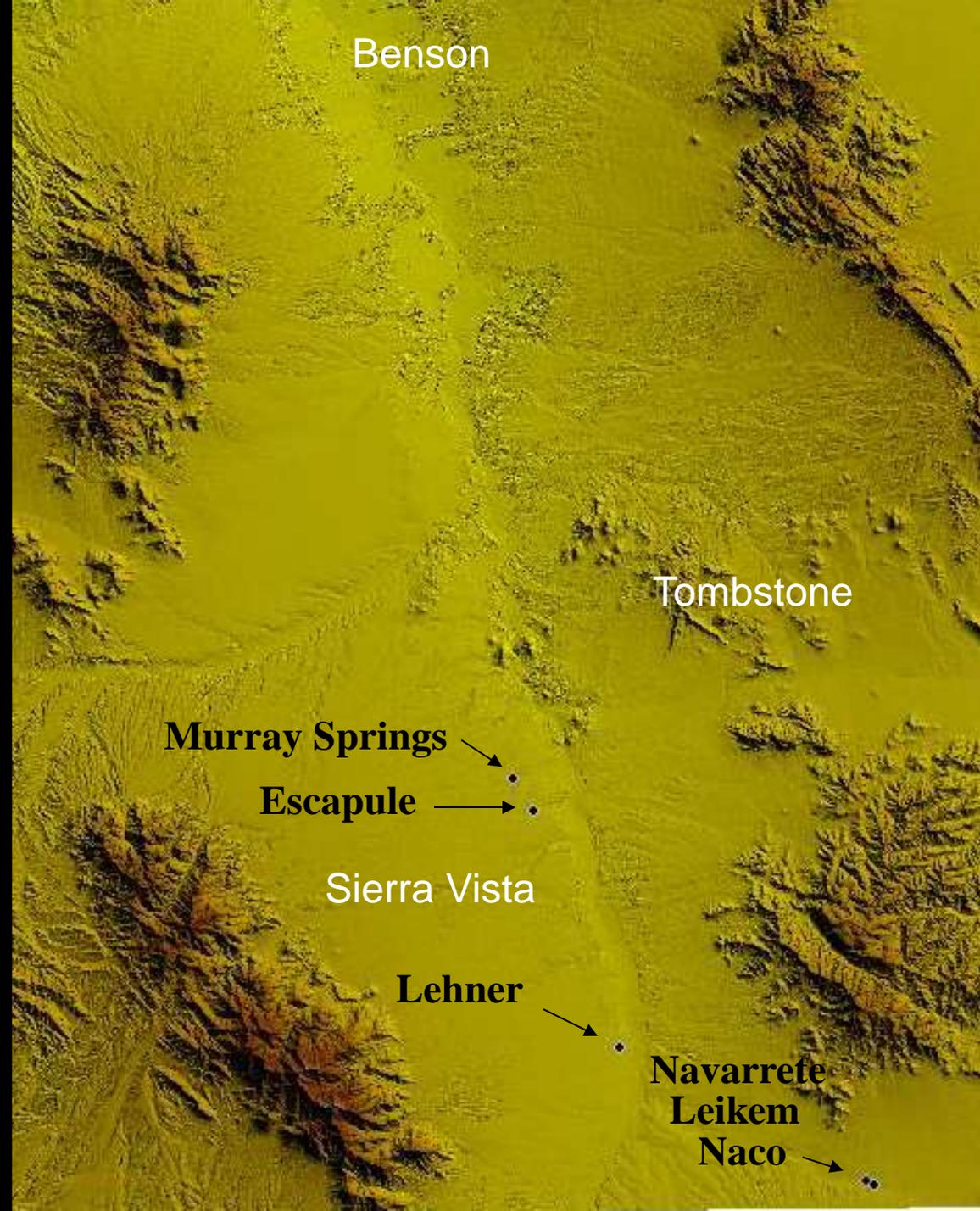
# Lehner

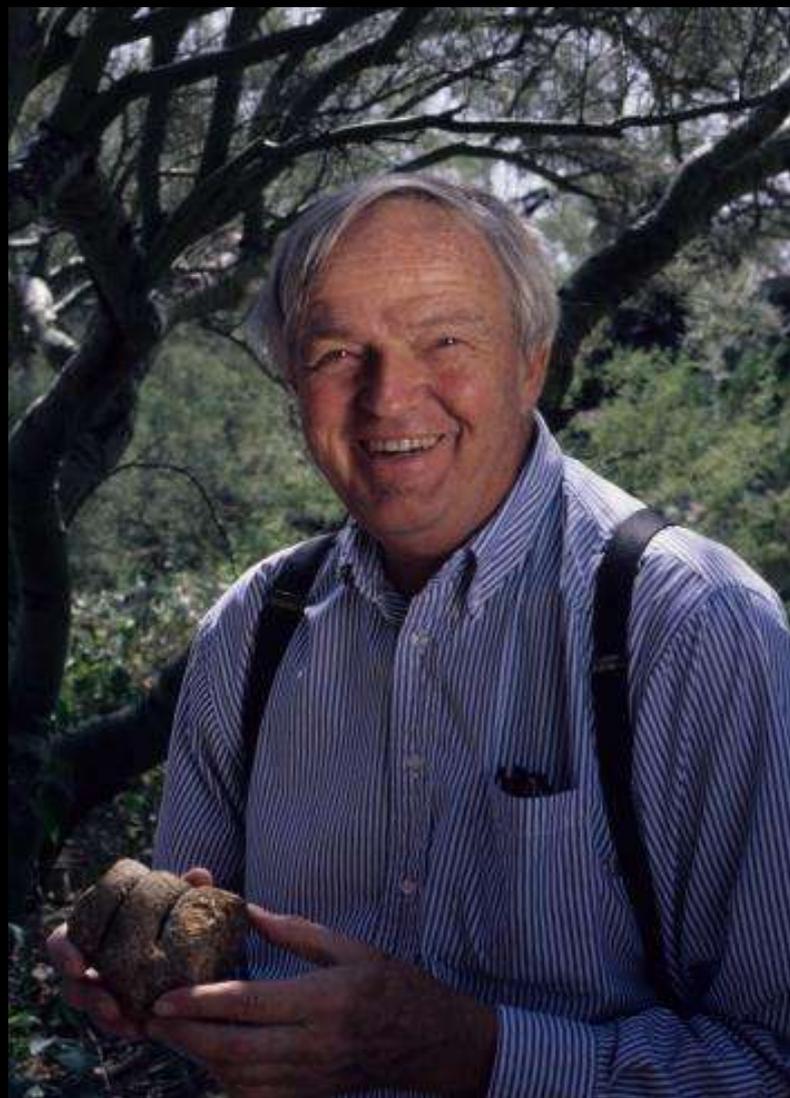


# Naco site

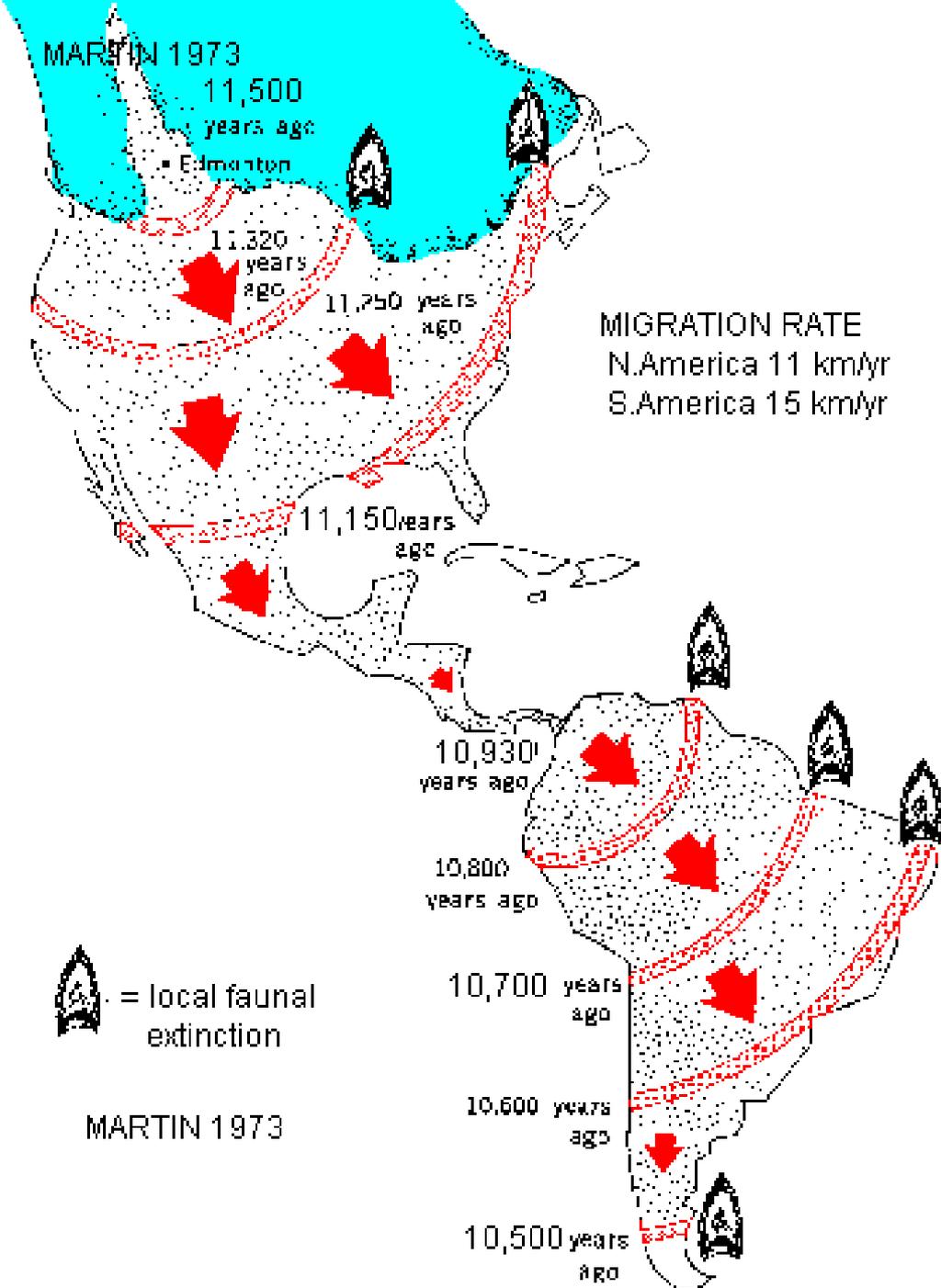


About 4

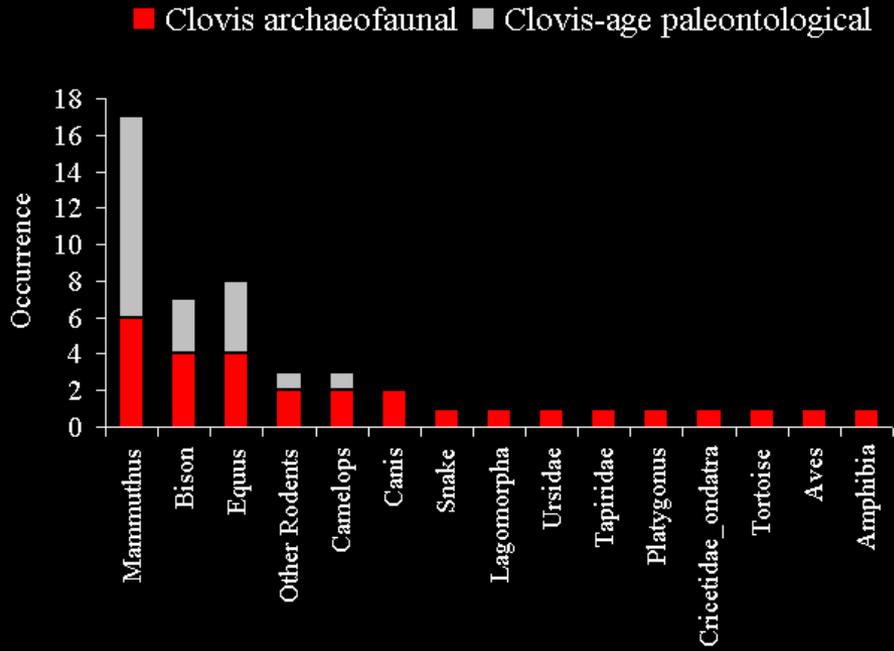




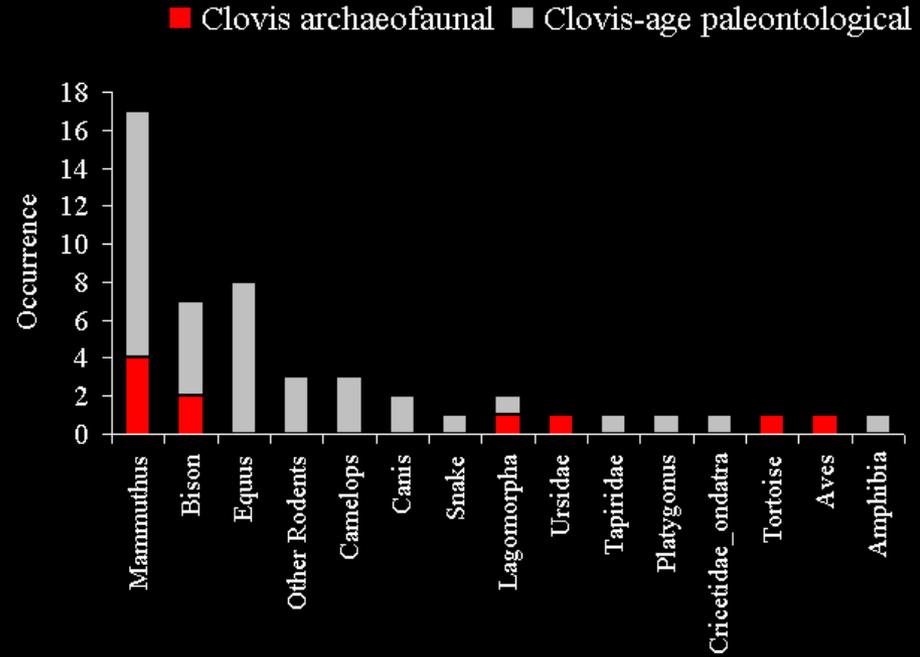
Paul S. Martin,  
Emeritus Professor of Geosciences,  
University of Arizona

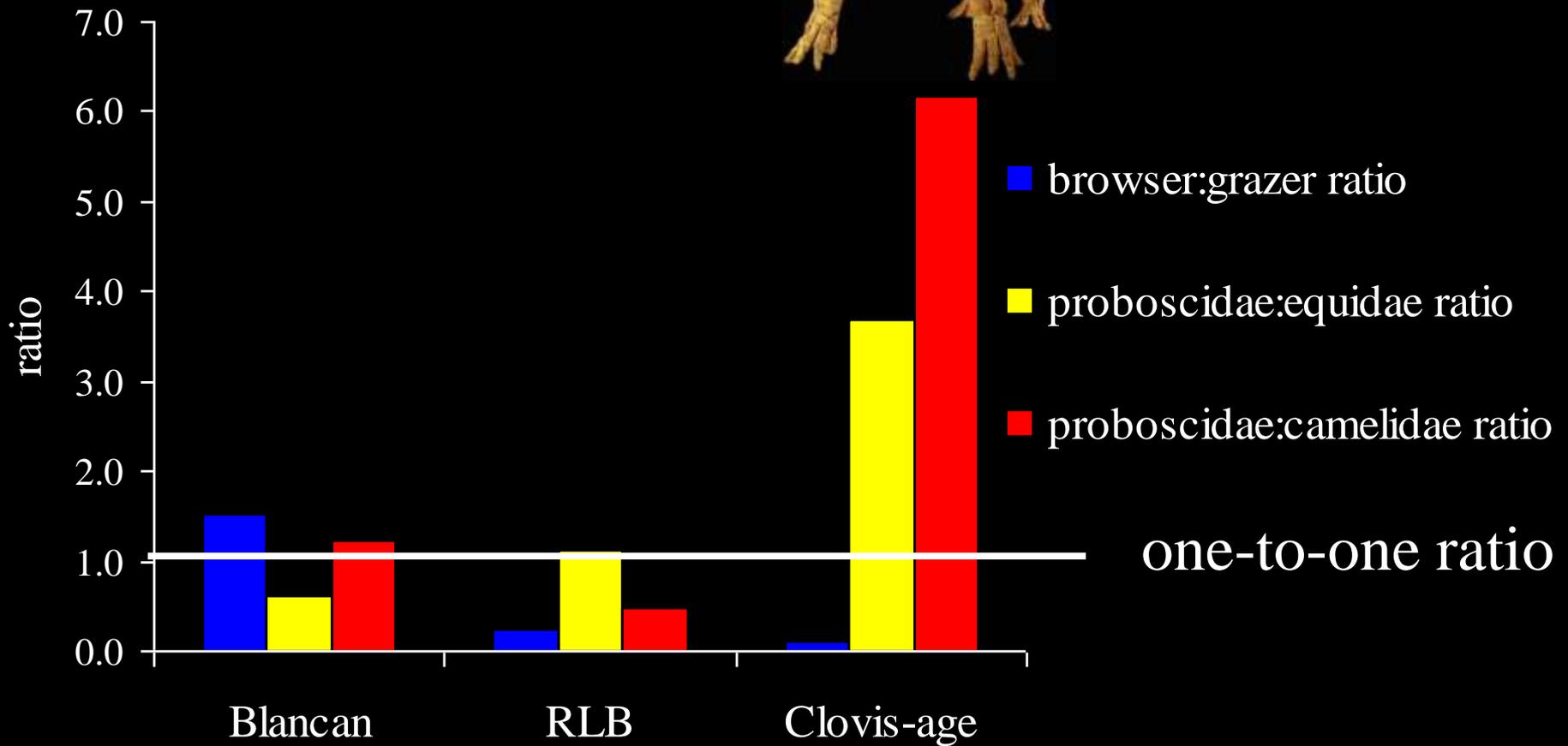


# Liberal estimate

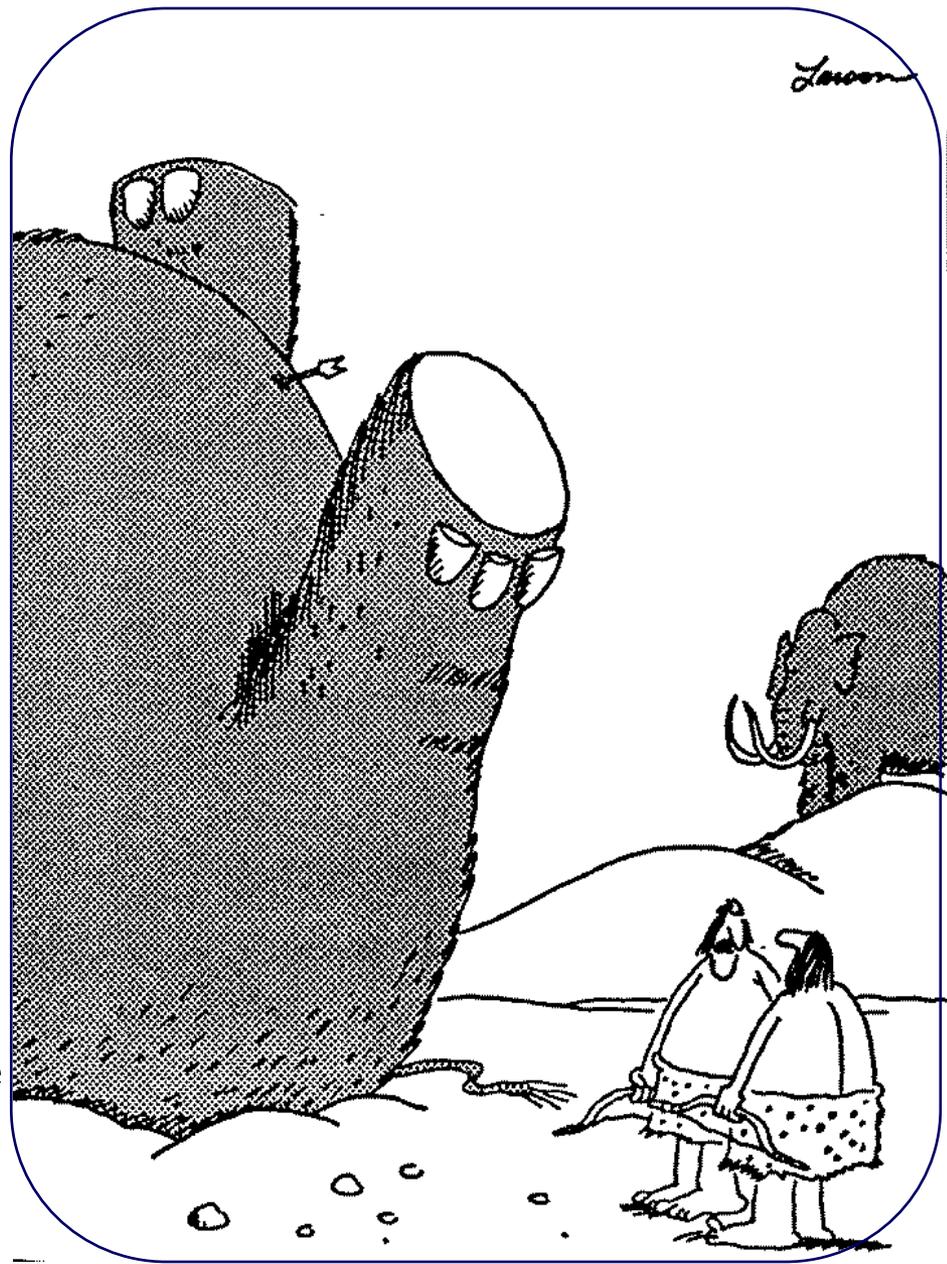


# Conservative estimate





*Louison*

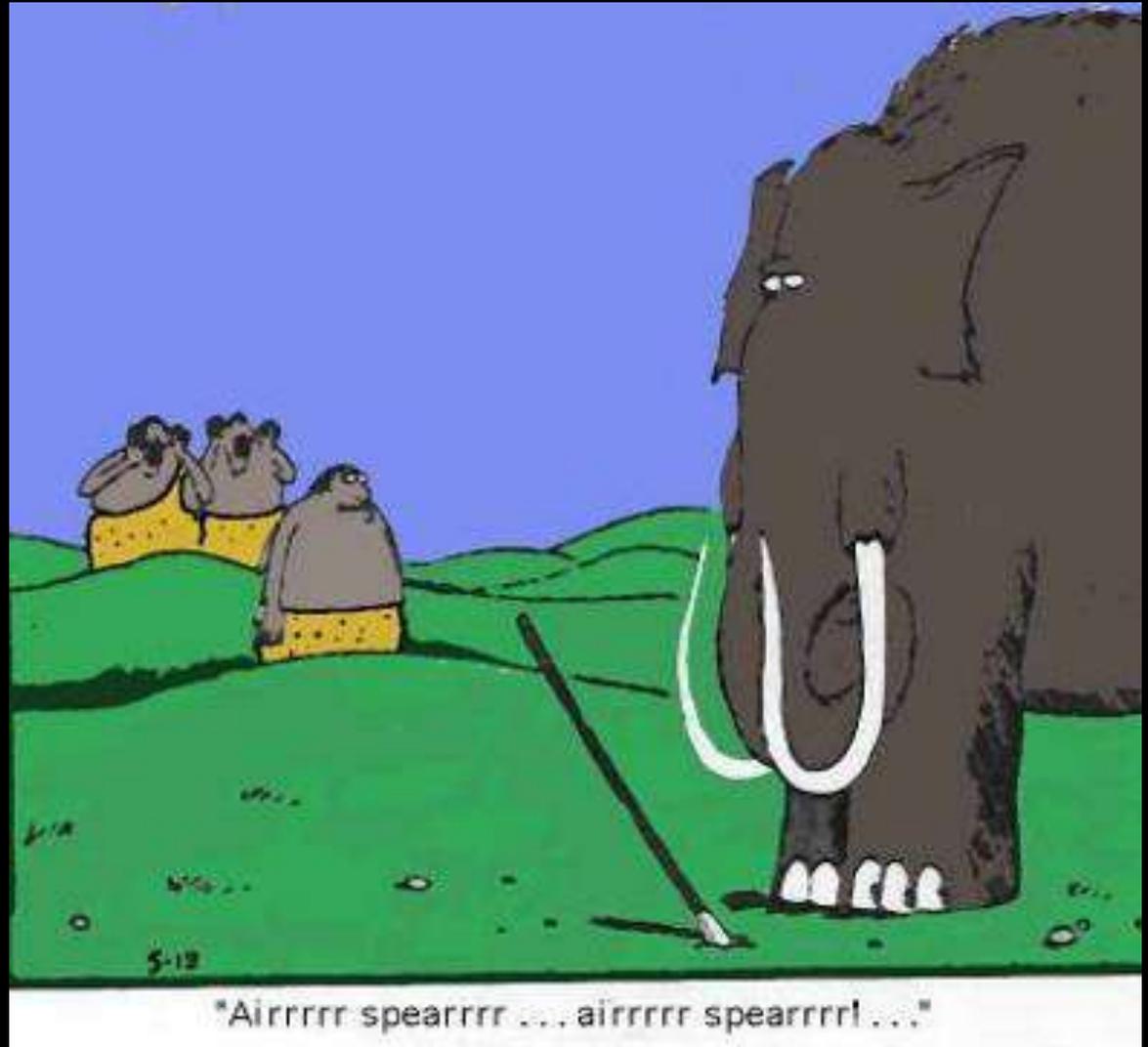


**“Maybe we should write that spot down.”**



Naco, Arizona

“the one that got away”?





Murray Spr

Escapule

Sierra Vista



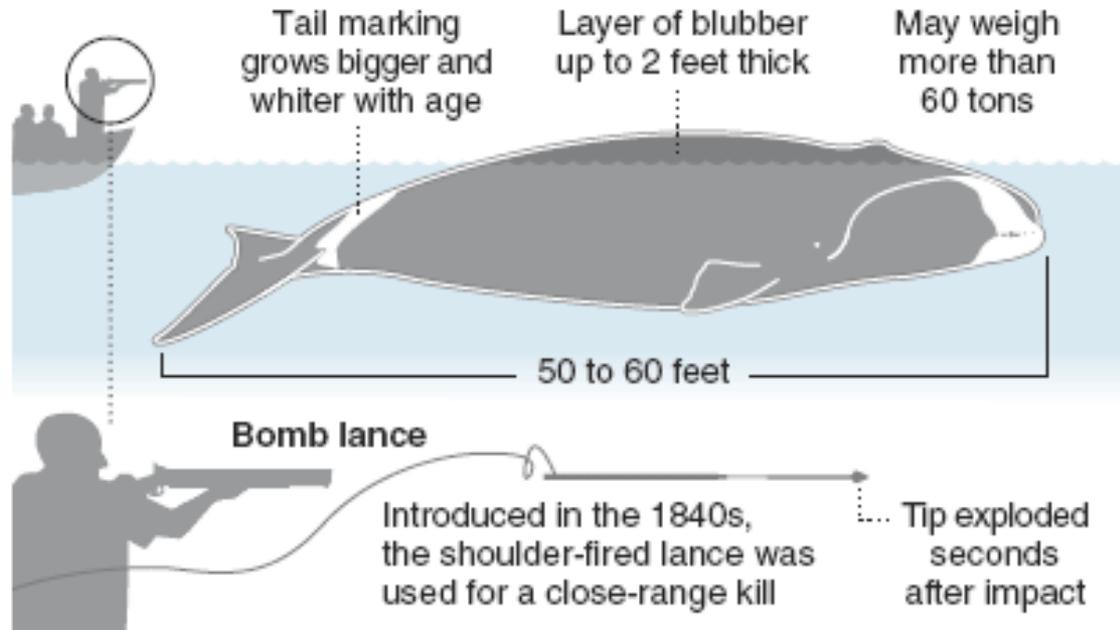
Lehmer

Naco

# Evidence to support whale of a tale

The recent discovery of a 19th-century bomb lance in a bowhead whale suggests the species may be able to live well over 100 years. The bowhead was hunted near extinction in its native Arctic and subarctic waters for its thick layer of blubber, oil and baleen.

**Bowhead whale, *balaena mysticetus***



SOURCES: American Cetacean Society; New Bedford Whaling Museum

AP

