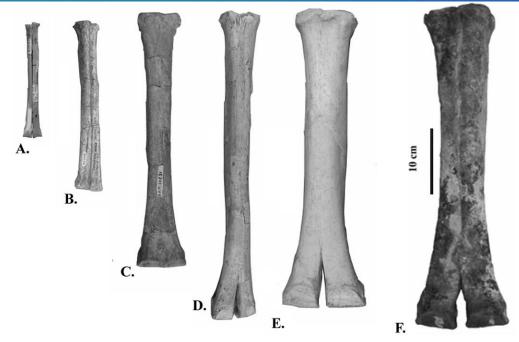
# Research and Other Uses of Images and Digitized Specimen Data

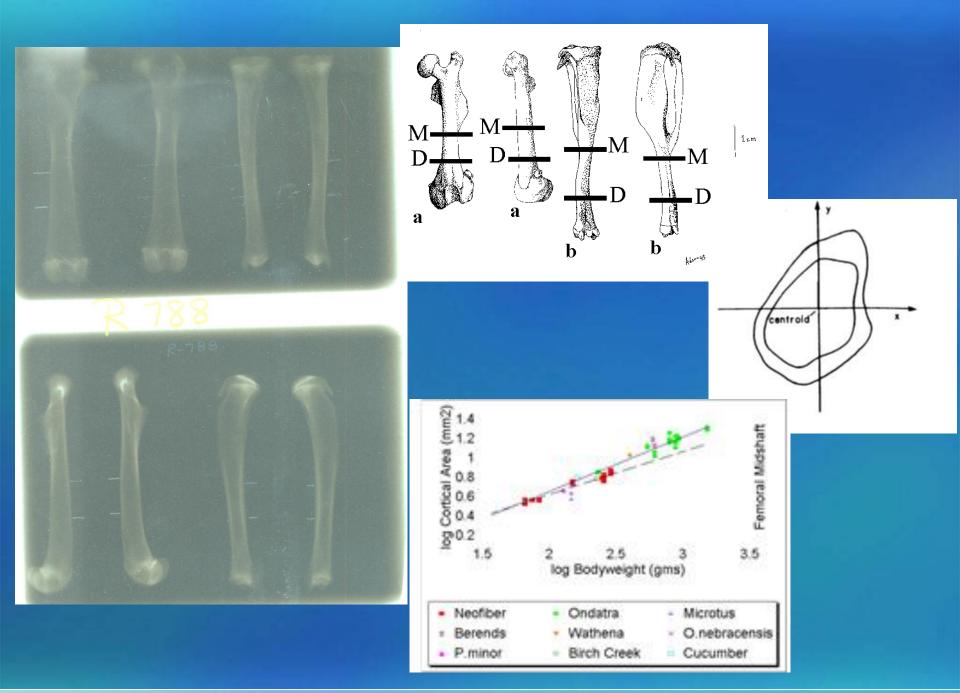
Mary E. Thompson, Ph.D. Idaho Museum of Natural History/ISU

### Scientific Illustrations



# Generic Illustrations. Report State Geologist, 1893 FDATE 26. Friedle Aportowich

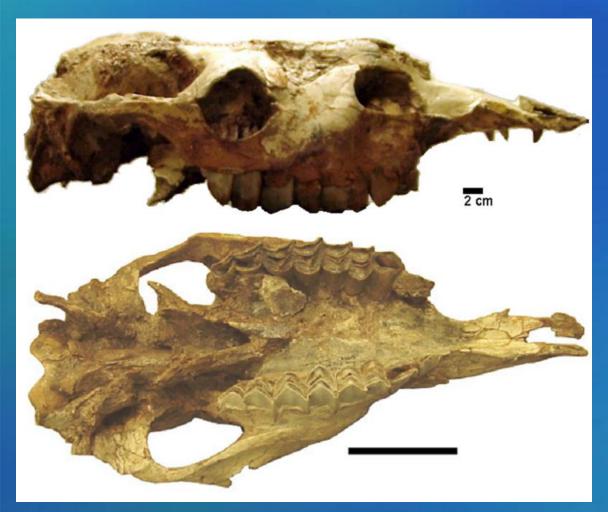
Revolution Services Travelle



# Doctoral Research Pacing in fossil camels

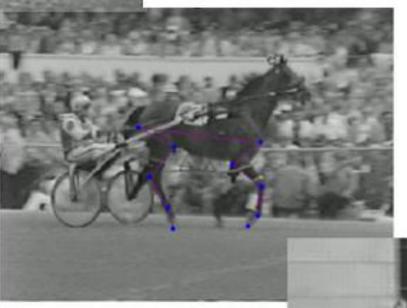






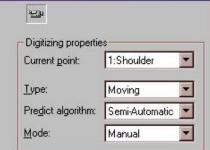


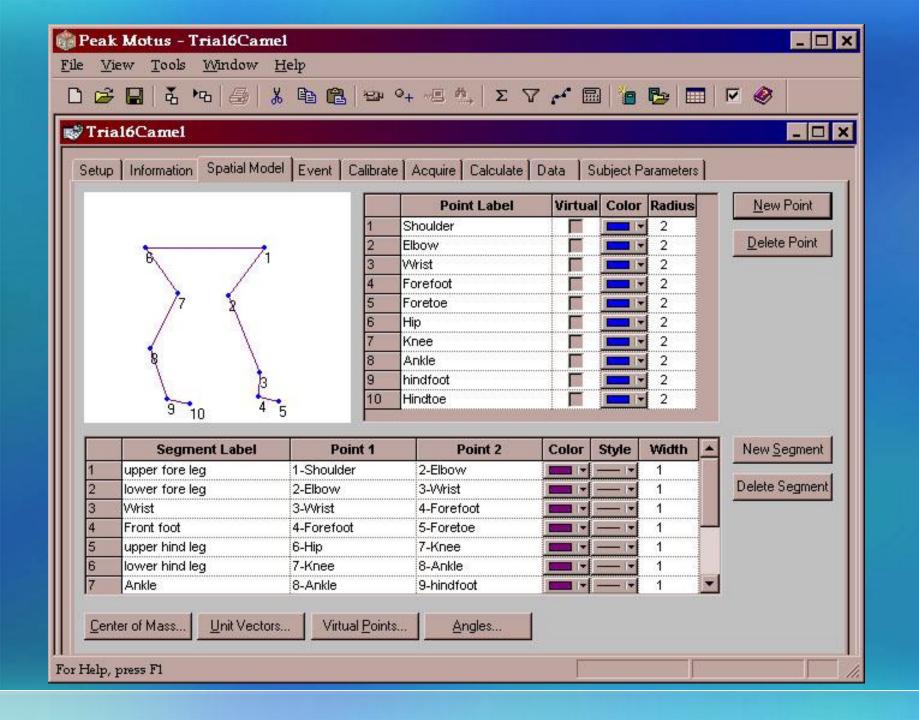


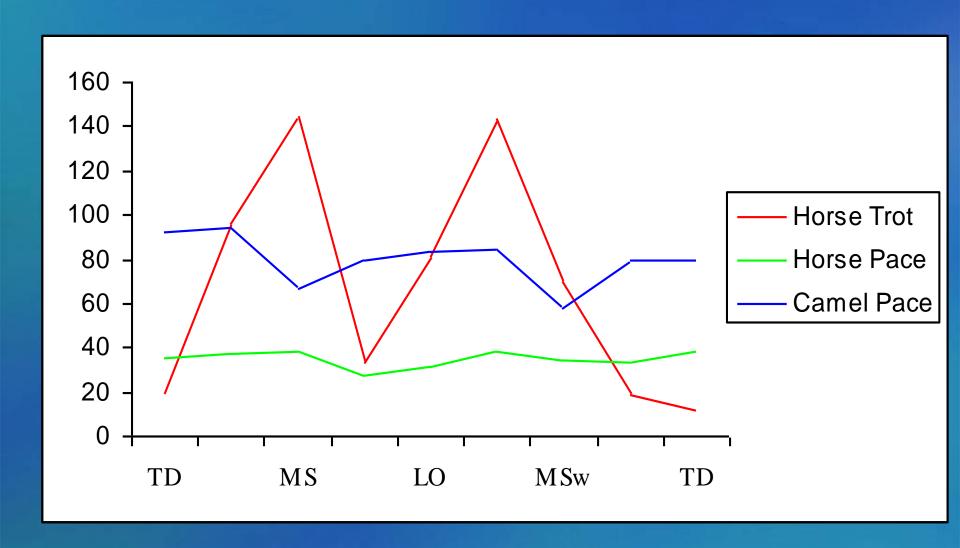


# Coordinate Acquisition - Trial6Camel, Camera 1









### Tracks and Trackways

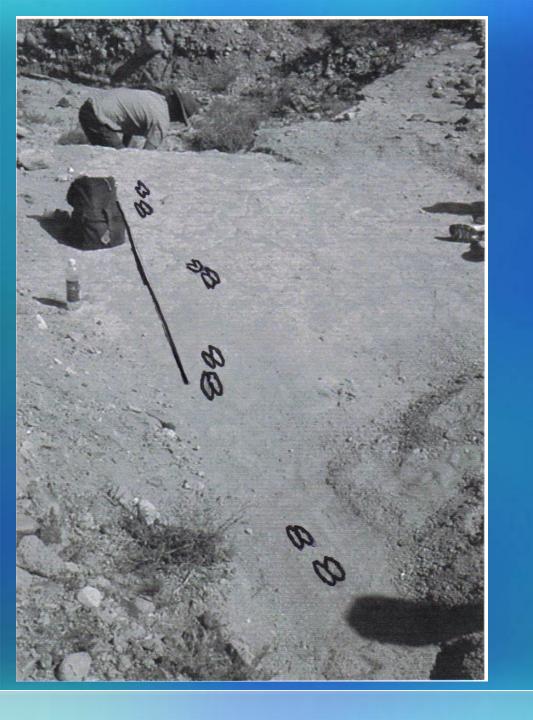












## Paleopathology - ENS

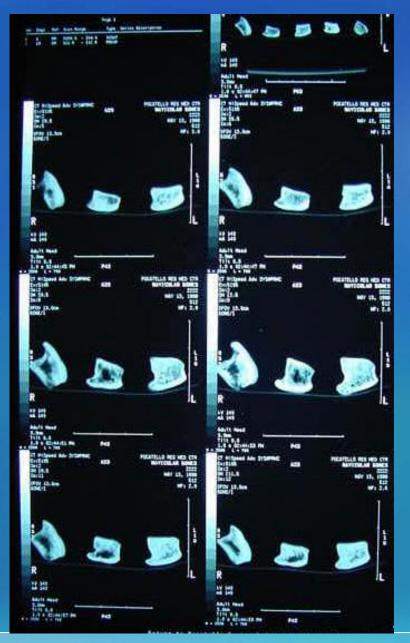


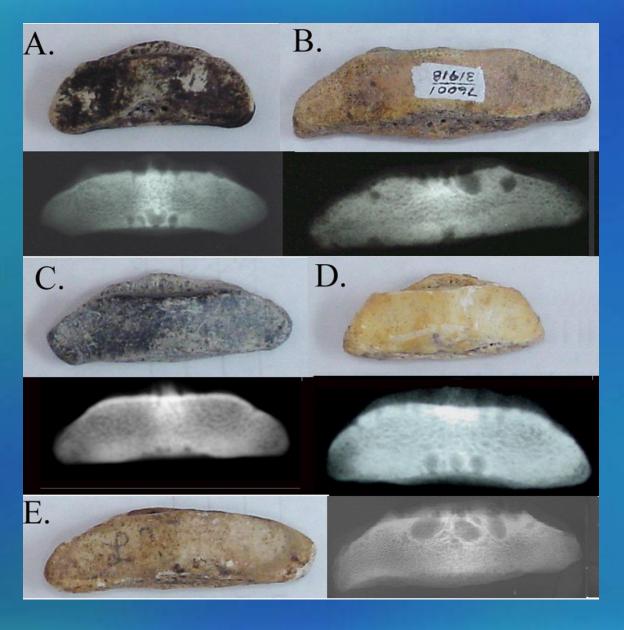
### Methods

#### Radiographs



#### **CT Scans**



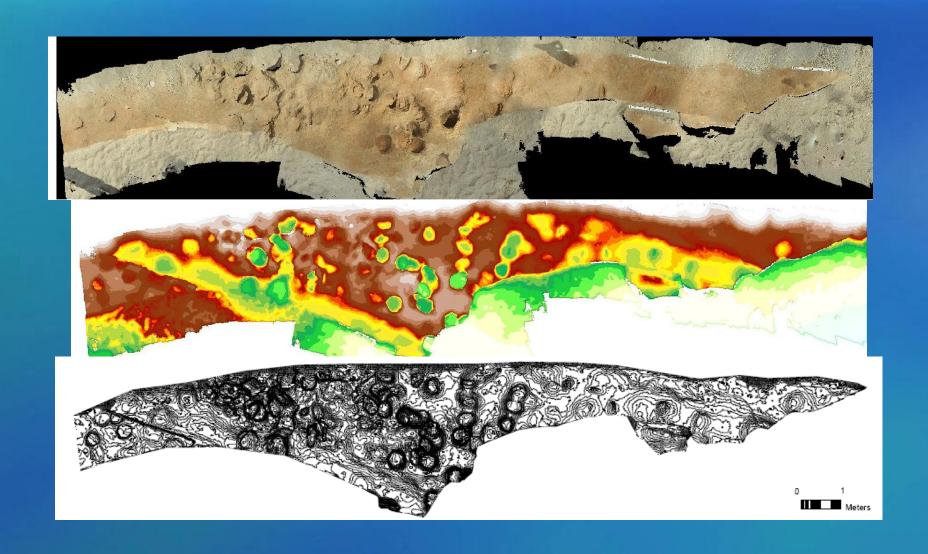


- A. Equus occidentalis La Brea Tar Pits
- B. Equus scotti
  American Falls
- C. Equus simplicidens Hagerman
- D. Equus conversidens San Josecito Cave
- E. Equus caballus modern horse

### Photogrammetry







Preliminary Photogrammetic Data

Manually Calibrate The Pixel Size

- Click on the beginning of an object of known length visible in the image.
- 2) Drag to the end of the scale. Release the mouse.

TIP: Draw along as much of the scale as possible. The longer the line, the more precise the measurement.

A colored line is drawn on the image. If the line does not match the scale, either redraw the line or fine tune the start and stop positions of the line with the small arrows next to the x and y positions of the line end points, which are located below the image.

- 3) When satisfied with the fit of the line to the scale, enter the length of the scale used in the labeled white box below.
- 4) Enter two letters that represent the unit of the scale being used in the labeled white box below. For example, type "in" for inches and "cm" for centimeters.
- Click 'Done' when finished. To re-run the calibration method click 'Calibrate Length' in the File menu.

To cancel, close this window by right-clicking the 'close' icon in the upper left corner.

When zoomed in, pan around the image by right-clicking and dragging the image. Because of the text fields, the keyboard cannot be used to zoom and pan the image.



Untitled



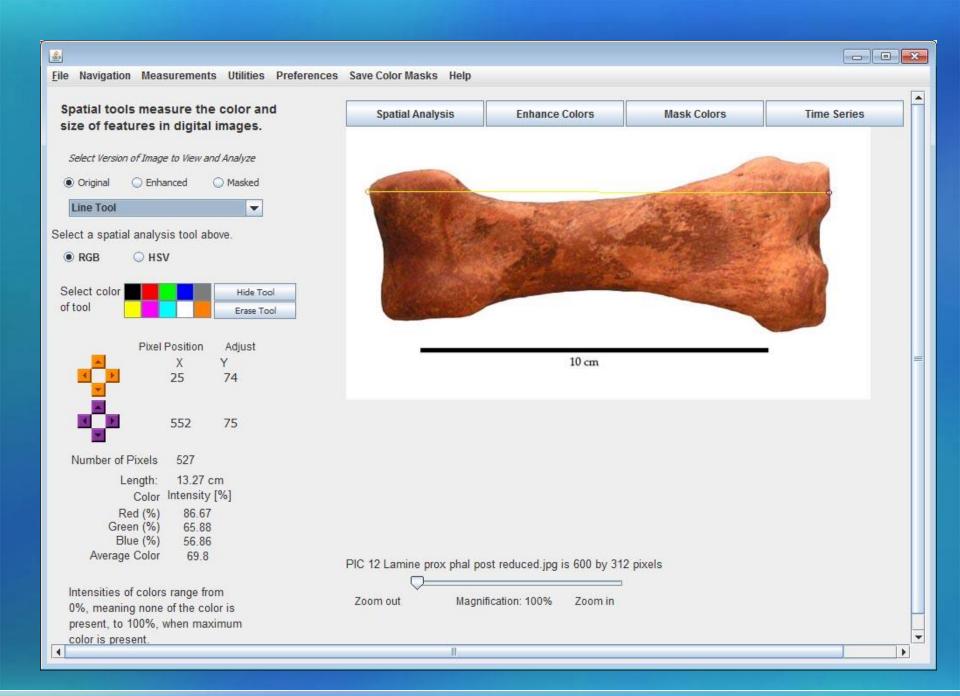
Zoom in

Onlinea			
X	Υ	$\bigcirc$	
296	421	Zoom out	Magnification: 100%
206	211		

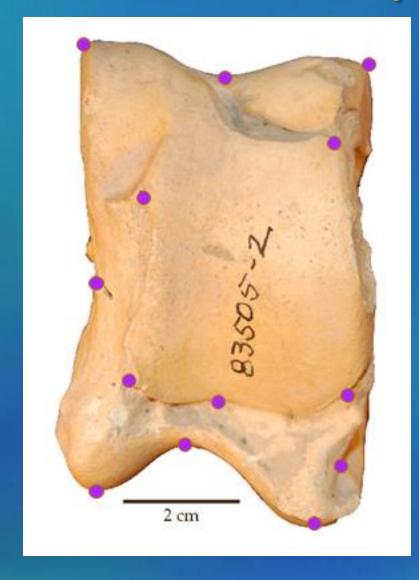
Length of Drawn Line
Unit of Length

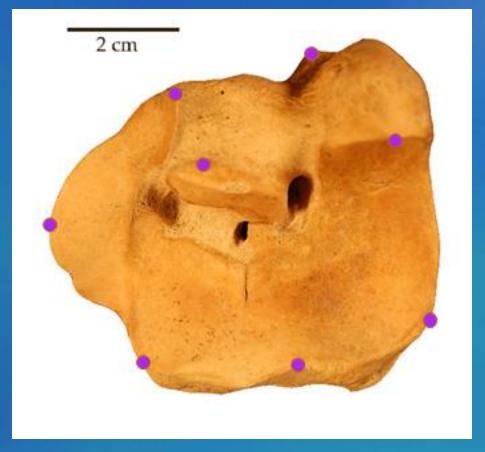
Cancel

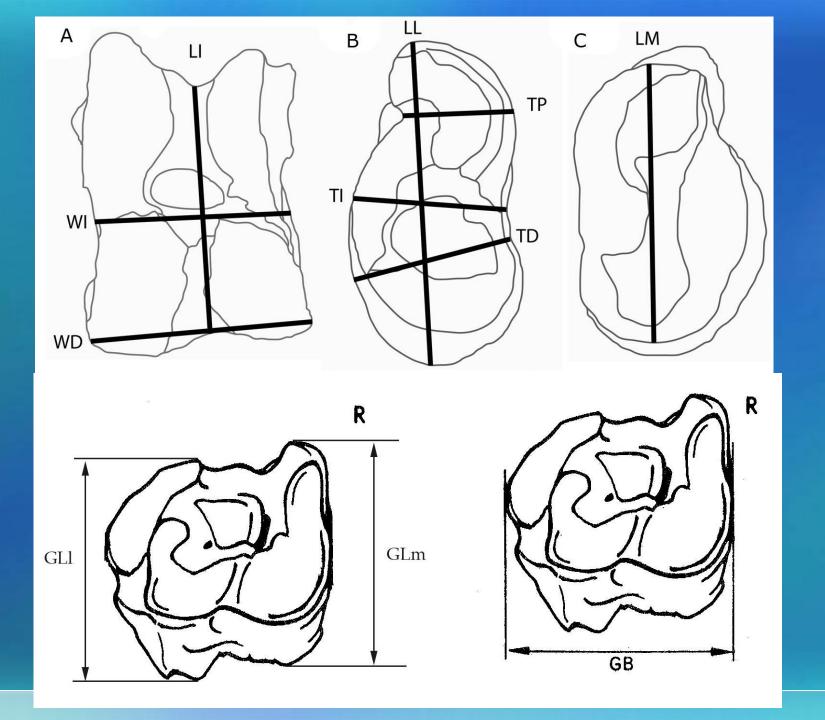
Done

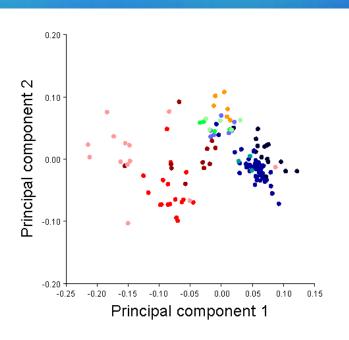


## Landmark Analysis

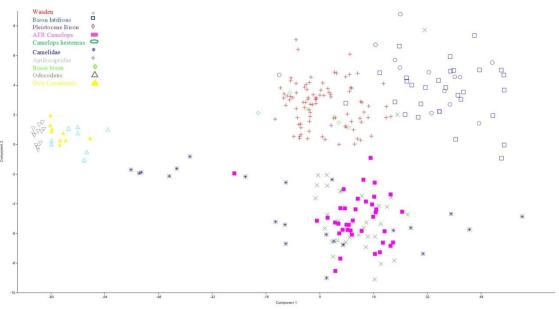








AFR Camelops LT Astra. Post.
Antilocapra LT Astra. Post.
B. bison LT Astra. Post.
B. latifrons LT Astra. Post.
C. hesternus LT Astra. Post.
Camelidae LT Astra. Post.
O. canadensis LT Astra. Post.
Odocoileus LT Astra. Post.
Pleist. Bison LT Astra. Post.
Wasden LT Astra. Post.





#### Next sten!!!

