Lab 8: Perissodactyla & Cetartiodactyla



Luxien Landrus, 11/7 and 11/8

Announcements

- Final lab!
- Only skulls; some skins are out, but just for fun
- Any skulls needed to species will have their species epithet on the slide

Order Perissodactyla

Family Equidae (horses) Genus Equus

• Very large skull, post-orbital bar, nasals form a sharp triangle





• Unknown whale tooth (looks like sperm whale photos from google)



Order Cetartiodactyla Family Suidae Genus Sus (hog)



- Brain case highly elevated above rostrum
- Lower teeth more horizontal than vertical
- Well defined sutures



Order Cetartiodactyla Family Tayassuidae Genus Dicotyles (collared peccary)

- Brain case elevated above rostrum
- Short tusks
- Incomplete post-orbital bar





Order Cetartiodactyla Family Tayassuidae Genus Catagonus (Chacoan peccary)

- Brain case level with rostrum
- Longer tusks than the other peccary
- Incomplete post-orbital bar
- Hourglass-shaped saggital crest





Family Cervidae (deer)

Genus Odocoileus

- *O. virginianus* (white-tailed deer) (left)
 - Know skulls with antlers to species
 - Antler prongs extend from one main "branch"
- *O. hemionus* (mule deer) (right)
 - Know skulls with antlers to species
 - Antler prongs fork independently; no main "branch"





Order Cetartiodactyla Family Cervidae (deer) Genus Alces (moose)

- Nasals end way before the incisive foramina
- Palmate antlers
- Largest cervid





Order Cetartiodactyla Family Cervidae (deer) Genus Rangifer (caribou)

- Antlers from 1892!
- Very cylindrical orbits

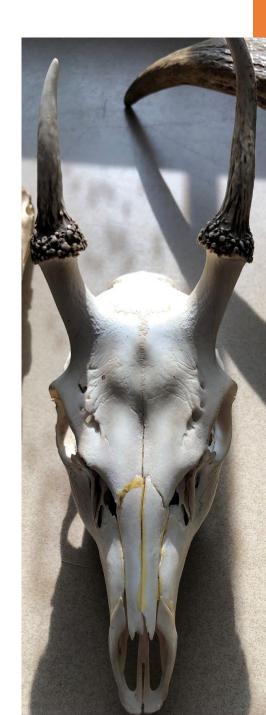




Order Cetartiodactyla Family Cervidae (deer) Genus Mazama (brocket deer)

• Very short, unbranched antlers





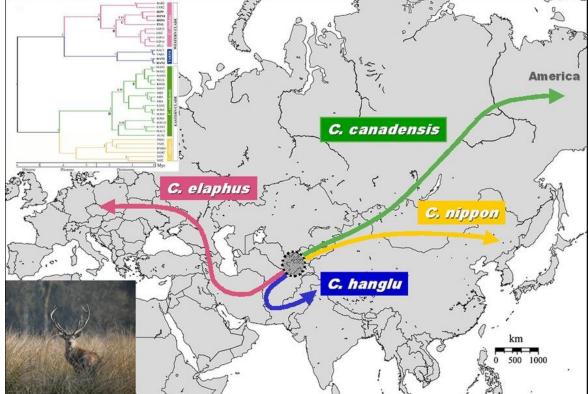
Order Cetartiodactyla Family Cervidae (deer) Genus Cervus (elk, wapiti, red deer)

• Very long and thin paroccipital processes



What's the deal with elk?

- "Elk", "Red deer" and "Wapiti" were treated as the same species: *Cervus elaphus*
- Later discovered that another *Cervus* species, *C. nippon*, actually rendered *C. elaphus* paraphyletic
- *C. elaphus* is now used for the European populations, while *C. canadensis* is used for North American and East Asian populations
- Some papers still refer to *C. canadensis* as *C. elaphus*



Family Antilocapridae (pronghorn)

Genus Antilocapra

- Crescent-shaped foramina between orbits
- Not an antelope!





Order Cetartiodactyla Family Bovidae Genus *Bos*

- Bos bison (aka Bison bison) (right)
 - More cylindrical orbits
 - Bigger
- Bos taurus (cattle) (left)





Order Cetartiodactyla Family Bovidae Genus Syncerus (African buffalo)



Order Cetartiodactyla Family Bovidae Genus Ovis

- Ovis aries (sheep)
- Ovis canadensis (bighorn sheep)





Family Bovidae

Genus Oreannos (mountain goat) (left)

- Only slightly curved horns
- Genus Capra (goat) (right)
 - More curved horns; lots of variation



