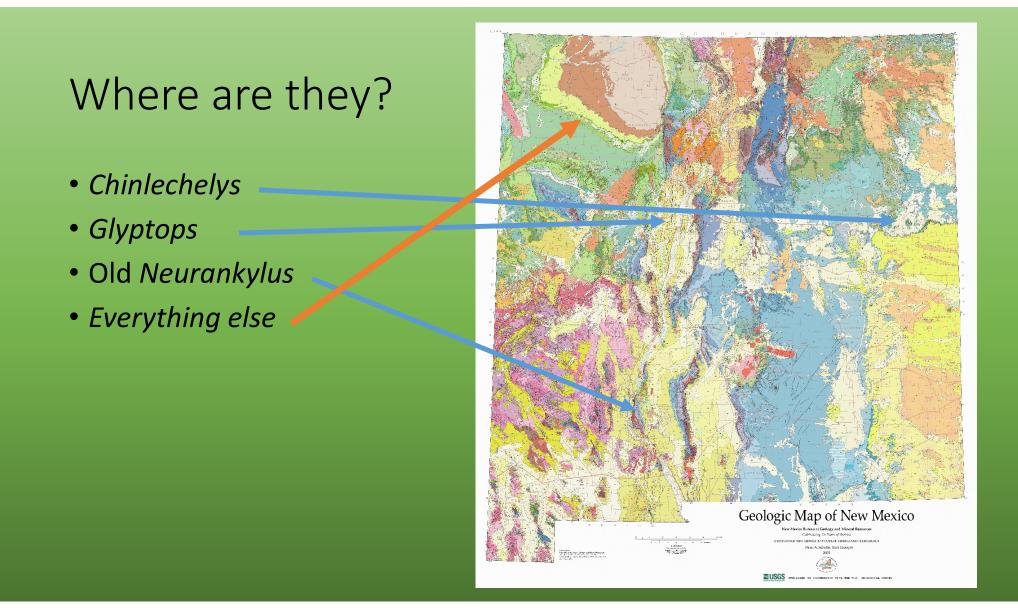
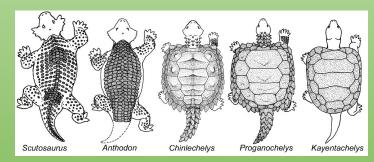
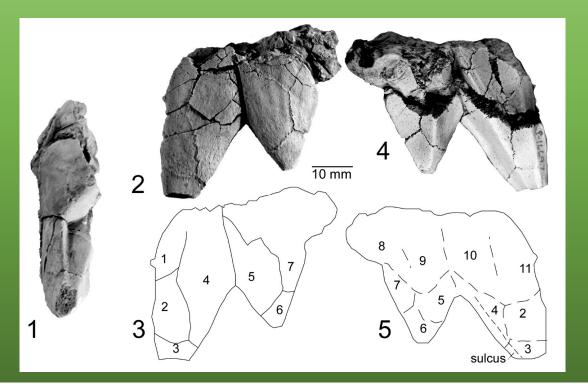
Fossil Turtles of New Mexico

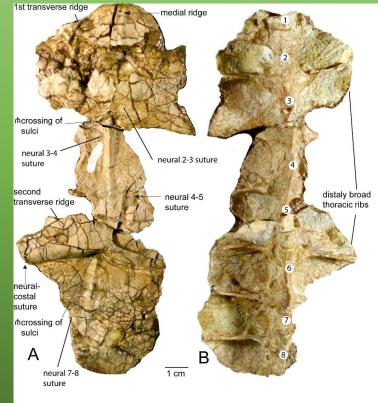
Asher J. Lichtig and Spencer G. Lucas New Mexico Museum of Natural History Albuquerque, New Mexico



Late Triassic *Chinlechelys* North America's oldest turtle







Late Jurassic *Glyptops*

The only Jurassic turtle from New Mexico

Late Jurassic—Brushy Basin Member of Morrison Formation

Found concreted to the side of a sauropod limb from Peterson Quarry, New Mexico's only Late Jurassic dinosaur bonebed



Late Cretaceous Denazinemys

The most common turtle from the Kirtland Formation

Often found relatively complete

Neurankylus

Relatively common large turtle in the San Juan Basin

Survives the K-T boundary





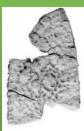
Adocus

Adocus and trionychid turtles dominate the Fruitland Formation turtle fauna



Trionychids

Trionychids are commonly found as isolated bits as seen here





2 cm

Paleocene *Neurankylus torrejonensis*

Most complete specimen known from the Nacimiento Formation

Complete shell with color pattern on the carapace known

Model on the right is labeled *N. eximius* but based on a specimen of *N. torrejonensis*









Paleocene platysternid *Cardichelyon*



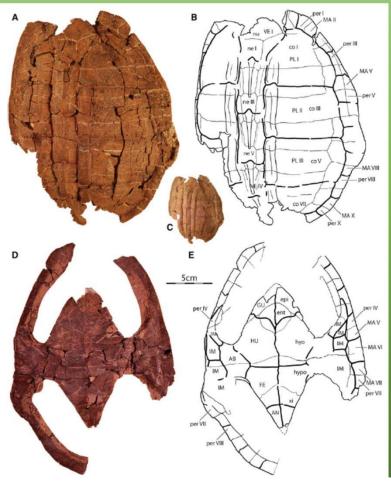


Compsemys

potentially important for confirming the long temporal range of this species (Campanian to late Paleocene)



Paleocene *Hoplochelys*











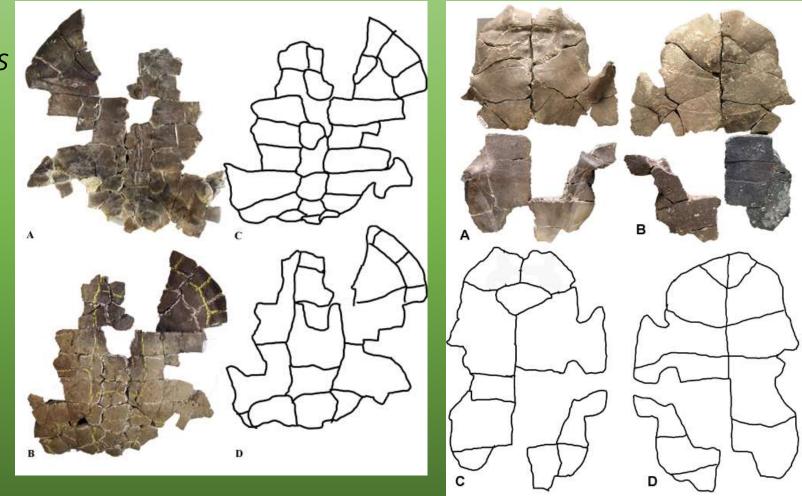
Paleocene Axestemys montinsana

A soft-shelled turtle speculated to be specialized for eating mollusks

First described by Vitek (2012)



Eocene *Echmatemys*



Eocene *Hadrianus*

The oldest tortoise San Jose Formation, San Juan Basin Wasatchian (early Eocene)

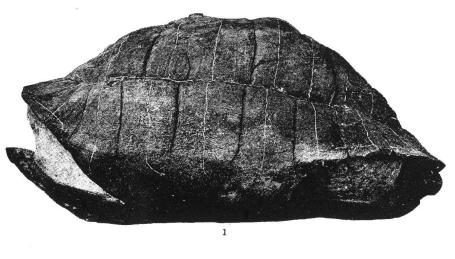
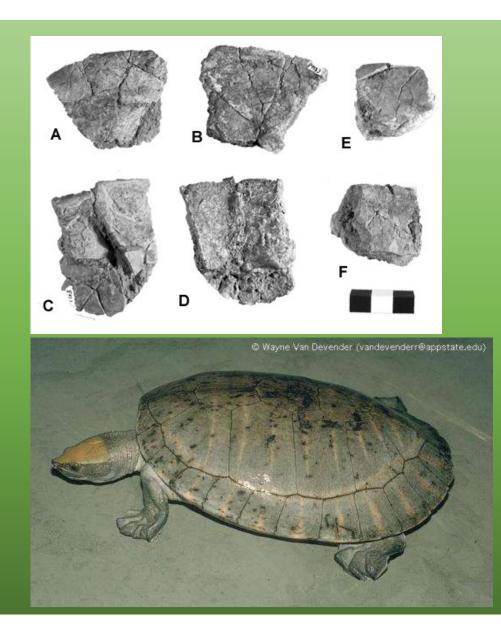


Fig. 1. Hadrianus majusculus. \times ‡. Page 374.

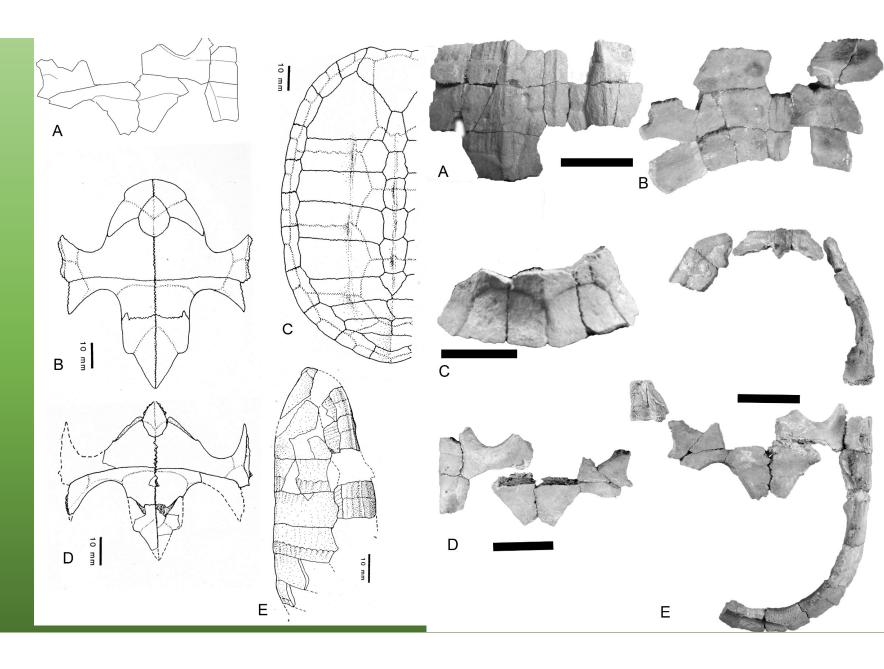


Eocene *Baptemys*





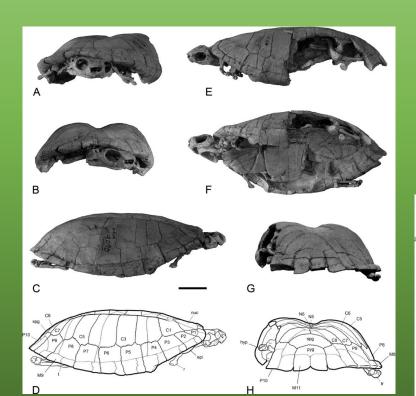
Eocene *Baltemys*

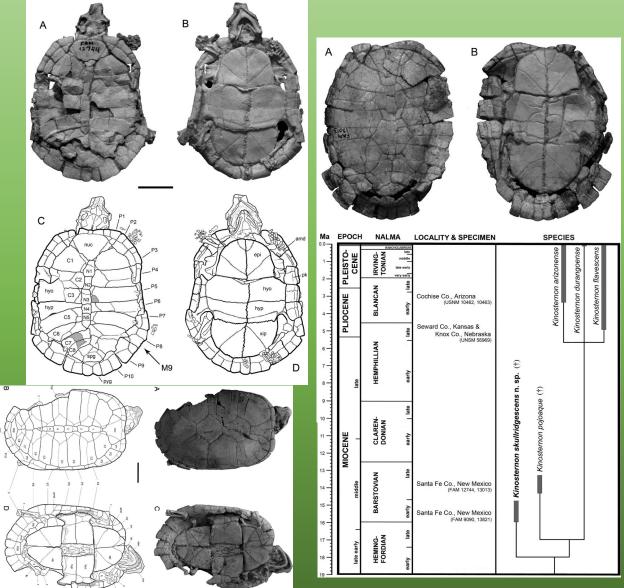


Fossil Mud turtles of New Mexico's Miocene

Written up by Jason Bourque of the Florida Museum of Natural History

May have some biostratigraphic value





Pliocene CaballoTortoise









Pliocene Pearson Mesa Tortoise *Hesperotestudo* (AKA "Hercules")









Summary

• Triassic

- Chinlechelys
- Jurassic
- Glyptops
- Cretaceous
- Baenids
- Adocus
- trionychids
- Paleoecene
- Neurankylus
- Compsemys
- Hoplochelys
- Axestemys
- Cardichelyon

- Eocene
- Echmatemys
- Hadrianus
- Baptemys
- Baltemys
- Miocene
- Giant tortoises
- Mud turtles *Kinosternon*
- Plio-Pleistocene
- Giant tortoises
- modern fauna

Thank you, any questions?

A 140-year-old tortoise wearing her 5-day-old son as a hat.

