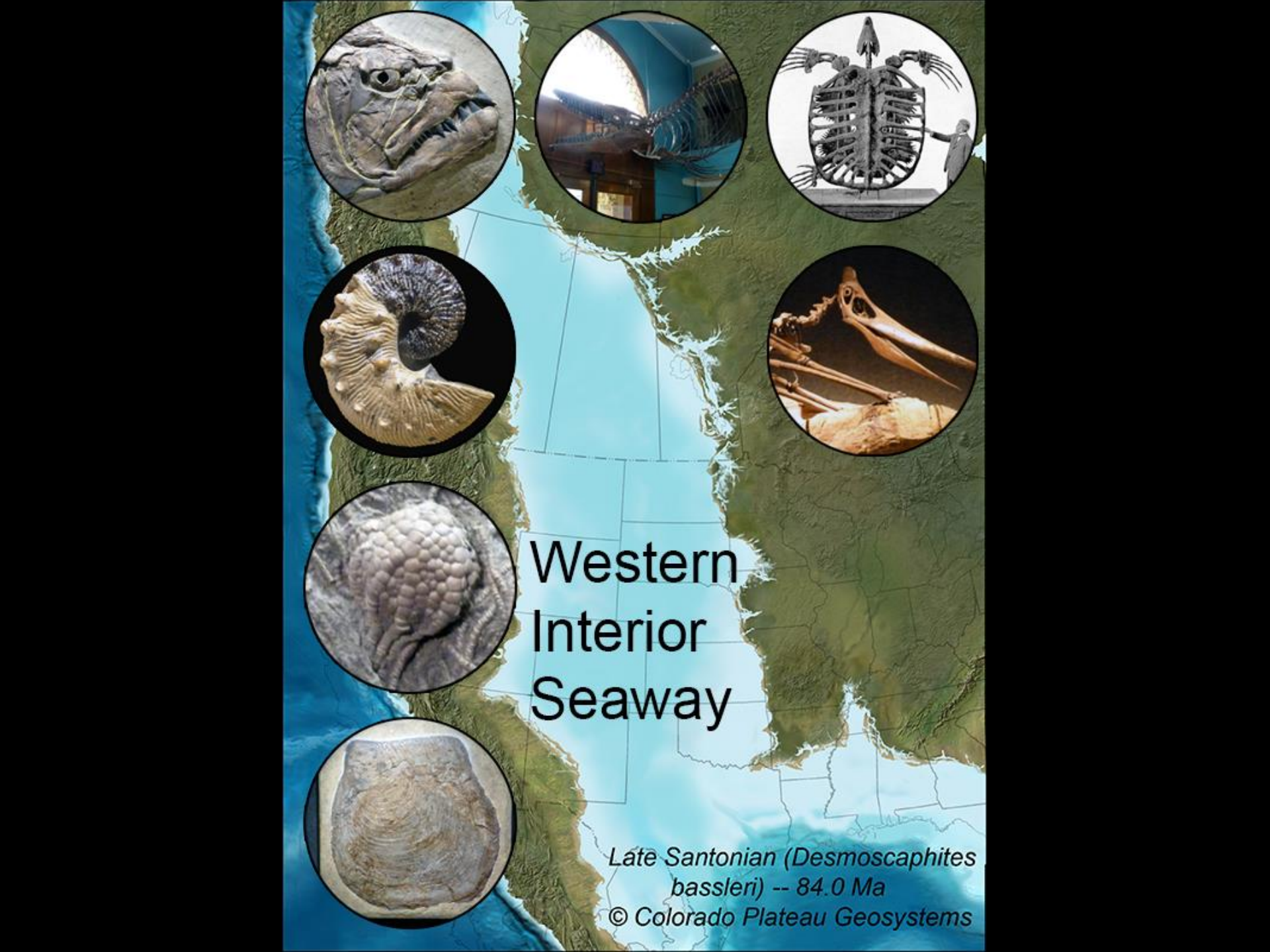
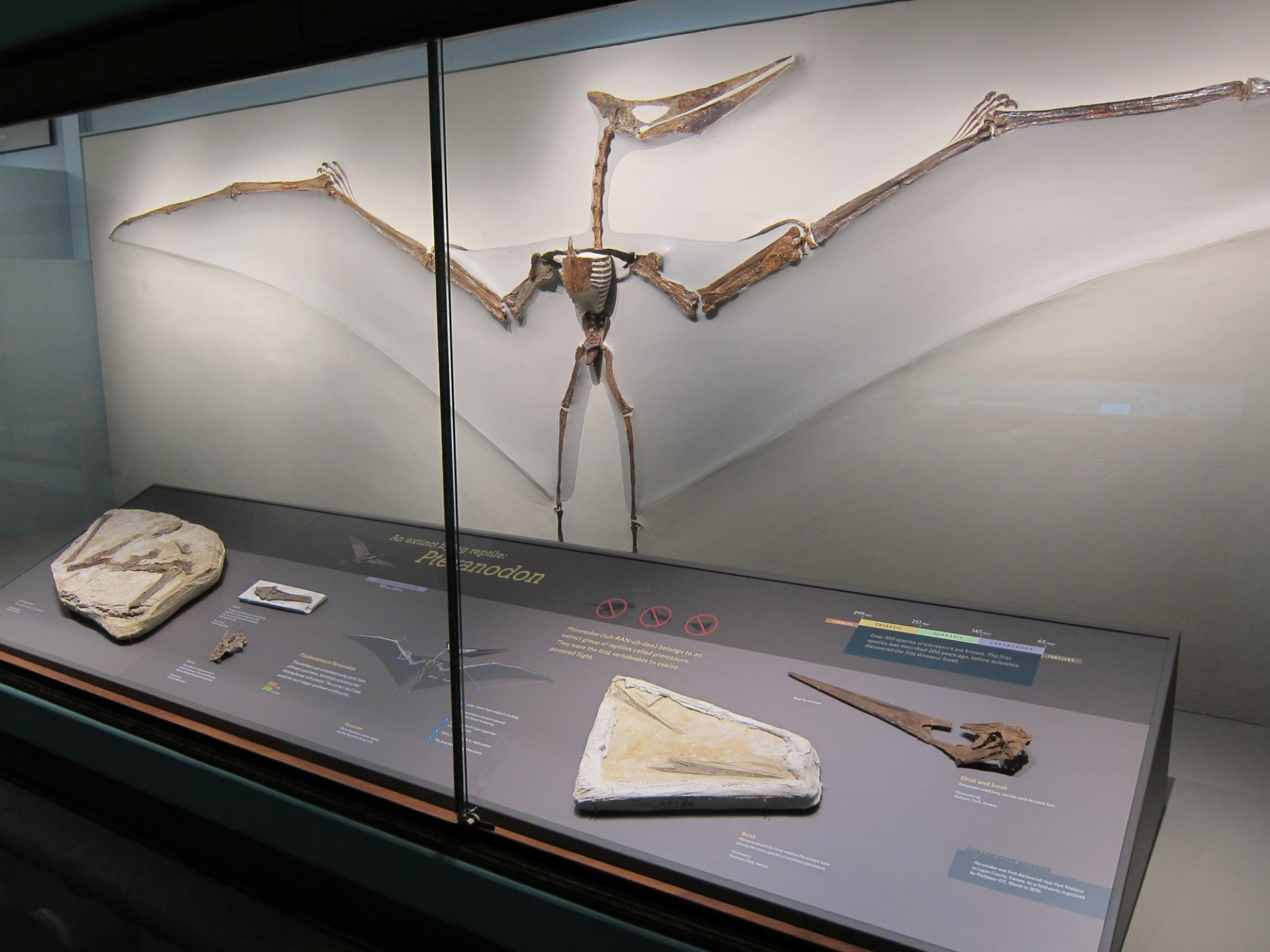
The Cretaceous World -TCN


Western
Interior
Seaway
Late Santonian (Desmoscaphites bassleri) -- 84.0 Ma
© Colorado Plateau Geosystems

MOSASAUR

Xiphactinus audax
Sternberg Museum of Natural History


An extinct flying reptile:
Pteranodon
Pteranodon (tuh-RAN-uh-don) belongs to an extinct group of reptiles called pterosaurs. They were the first vertebrates to evolve powered flight.
299 MYA
PERMIAN
251 MYA
TRIASSIC
JURASSIC
145 MYA
CRETACEOUS
65 MYA
TERTIARY
Over 100 species of pterosaurs are known. The first species was described 200 years ago, before scientists discovered the first dinosaur fossil.
Skull and beak
Beak
COLLECTION HISTORY

Cretaceous World – TCN : Participants and Institutions

University of Kansas – Bruce S. Lieberman, Chris Beard & Jim Beach

Paleontological Research Institution – Jonathan Hendricks

American Museum of Natural History – Neil Landman & Ruth O'Leary

University of Texas– Ann Molineux, Rowan Martindale & Matt Brown

Cretaceous World – TCN : Participants and Institutions, cont.

Yale University Peabody Museum of Natural History – Susan Butts & Chris Norris

University of Colorado – Talia Karim

South Dakota School of Mines & Technology – Laurie Anderson & Maribeth Price

University of New Mexico – Corinne Myers

Sternberg Musem / Fort Hays State University – Laura Wilson

Cretaceous World – TCN : Data and Research Goals

~ 165,000 specimens databased

~ 7,000 fossil localities georeferenced

~1,600 fossil species imaged (> 3,200 images)

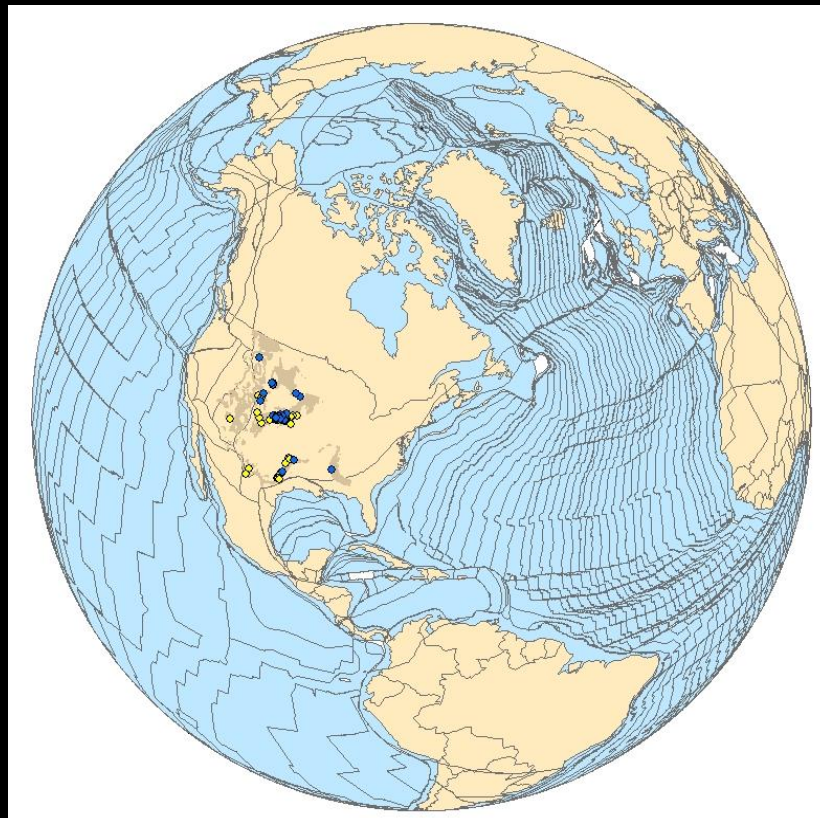
All data shared via iDigBio, institutional websites, and iDigPaleo

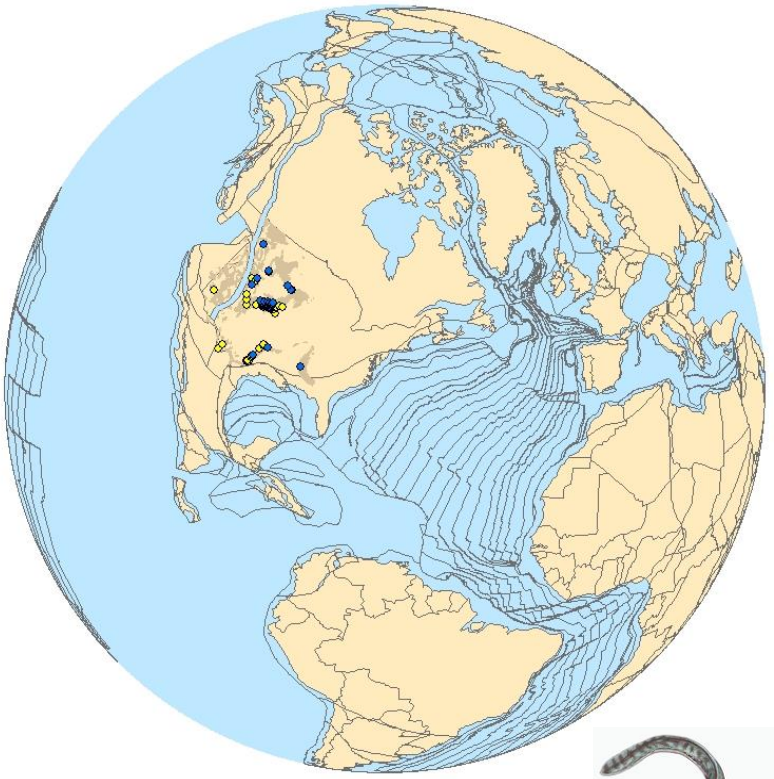
Cretaceous World – TCN : Data and Research Goals, cont.

Focus on ecological niche modeling

Present Day

~87Ma



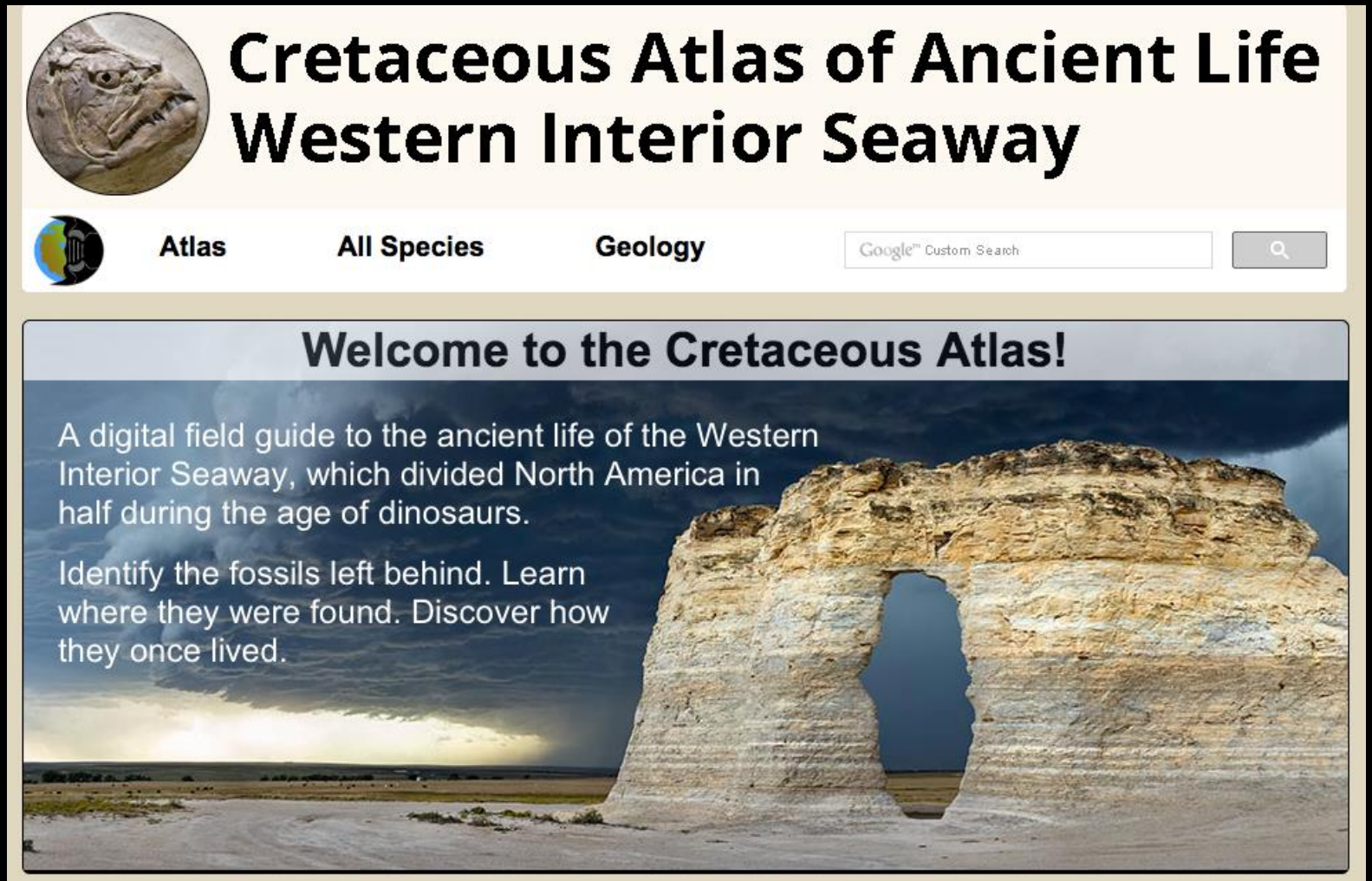


◆ *Cretoxyrhina mantelli*

◆ *Tylosaurus s*

Cretaceous World – TCN : Outreach Goals

Creation of *Cretaceous Atlas*



Cretaceous World – TCN : Outreach Goals, cont.

- Creation of *Digital Encylcopedia of Ancient Life*
- Additions to *Digital Atlas App*
- Museum exhibits
- Creating collections for K-12 classrooms
- Outreach to K-12 students
- Undergraduate and graduate student training

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Julien Kimmig, Chris Beard, Jim Beach & Andy Bentley (KU)

Susan Butts (Yale U.)

Cori Myers (U. of New Mexico)

iDigBio

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