Antarctic Dinosaurs

ANTARCTIC DINOSAURS

Exhibition Details

Size: 5,500 ft2 (511 m2)

Ceiling Height: 12 ft (3.66 m)

Tour: Spring 2023 – Fall 2028

Curators:

Pete Makovicky, PhD. Lead Curator Field Museum

Nathan D. Smith, Ph.D. Associate Curator Natural History Museum of Los Angeles County



Features

- Over 60 fossils, full-scale replications, and touchable models
- 9 mechanical and digital interactives
- 7 videos and large media elements
- Custom soundscape and lighting elements
- Bilingual (English & Spanish)



ANTARCTIC DINOSAURS

Graphic Panels

- Strong hierarchy makes content accessible to multiple learner levels
- Graphic novel illustration and dialogue convey a sense of adventure
- Bilingual layout and flexible graphics system (all text is for placement only)





Though Antarctica today can be a forbidding land of snow and ice, 200 million years ago it was part of the supercontinent Gondwana, a wooded, verdant habitat where dinosaurs thrived. After the age of the dinosaurs, the landmass now known as Antarctica separated from South America, opening a new path for ocean currents that froze the South Pole over millions of years. As the climate changed, so did life on the continent.



Exhibition Summary

Antarctica is a beautiful and remote place that few people get to experience. The goal of the exhibition is to transport people to this harsh, mysterious landscape through immersive environments, images, lighting, sound, and smells. Dynamic projection mapping of the excavation site, authentic fossil finds, robust tool interactives, and graphic novel storytelling allow visitors to join our dinosaur hunters on this epic adventure.

Antarctic Dinosaurs Bubble Plan



Main Messages

MAIN MESSAGES

Main Messages

- Antarctica was once a lush land populated by dinosaurs
- Fossils from Antarctica shed new light on our planet's ever-changing geology
- Interdisciplinary scientists from around the world study Antarctica's landscape to understand planet's past, present, and future climate transitions









Fossil Hunting in Antarctica

Following the footsteps of paleontologists, visitors are transported to one of the most inhospitable environments on the planet: bitterly cold mountains. There they must rely on an arsenal of modern power tools to excavate fossils from rock. Experience the taxing but exhilarating work of digging for fossils that reveals that Antarctica wasn't always a frozen, hostile landscape.









FOSSIL HUNTING IN ANTARCTICA

Fossil Hunting in Antarctica

SECTION ELEMENTS

- Media experience: on-site, modern fossil hunting
- "Excavation" mechanical interactives
- Real fossil collecting equipment
- Touchable matrix from Antarctica
- Recreated quarry ledge



Origins of Antarctica

Journey back in time to explore the dynamic nature of Antarctica's geology and the forces—plate tectonics—that created the southernmost continent. Examine a reconstructed forest and encounter the early plants and animals that flourished in the once-green environment.



CONNECTING THE WORLD FOSSIL BY FOSSIL EL MUNDO FÓSIL POR FÓSIL

At the beginning of the Permian period (nearly 900 million years appl, the continents were connected in the supercontinent of Pangaes (gan-GEE-ah). Foosis: the these Antarctic and South African ones helped scientists infer these connections.

These connectors. Al principio de periodo Pérmico lhane unos 300 millones de añosi, todos los continentes estabas unidos como un supercentinente llumado Pengia. Los científicos hicieros estas coneciones gracias a biolíse como estos antárticos y sudafricanos.

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cross the southern hemisphere provided	
some of the earliest evidence that the	
continents were connected, impressions of	
their leaves on the forest floor, called lead	
mats, tell us that they shed their leaves	
annually and recembled conthers.	
Les lockes de Descopers hallades en el herioderia sur haron la evidencia ricial de gar las conformes estanteres transitales Los impresseus de hajos en el sante de Besque, Tamates comos de hajo, ens indicar que con cabelitánia las pretens d hajoj i programa a las tenderas.	
South Alfrican Discoptoria lead mat Decoptoria browniana	

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Although they may not look identical, Lystressourus Elis-strob-SARM-val tosofo Elia these closed as into how tectamic states nero fit together Being a runa and had only two tusk-like teeth.

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A South African Doing dis factions Carly Triassic Januard 250 million years age! South Africa C-Senter 1

When scientists discovered this Antarctic Thrinosolan (Mrin-AXI uh-deal fuss), they noted hew similar it looked to fossils found in South Africa. Although it may not look obvious.

the features of these locals confirmed that Thrinkodon, a synapsid like Contrasorus, was another example of an animal ound in what are today five far-apart continents.

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HOW DID SCIENTISTS PUT PANGAEA TOGETHER? ¿CÓMO ARMARON PANGEA LOS CIENTÍFICOS?

Scientists discovered fossils of the same species across the southern continents. They pieced together this fossil evidence like a puzzle, and in doing so, pieced together the world.

Los científicos descubrieron fósiles de las mismas especies en todos los continentes del sur. Al armar el rompecabezas con la evidencia fósil, también unieron el mundo.

Each of these creatures lived in Antarctica and at least one other southern continent sometime between the Permian (298 million years ago) and the Middle Triassic [247 million years ago].

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La Antártida y al menos en otro de los continentes del sur, en algún momento entre el Pérmico (hace 298 millones de años) y el Triásico medio (hace 247 millones de años).



A plant-eating synapsid

class including mammals

Glassanteris Intos -50P-ter-ist

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A woody, seed-bearing tree

that was deciduous



Precelephen Inro-KOH-Joh-fawn] An early, plant-eating parareptile that grew to be up to 11 to 12 inches (28 to 30 cm) long A carnivorous synapsid that was closely related to mammala

Theisaredes [thrin-AT-ub-dos] withus ISIE-nog-NAY-thu



Prelacenta Ipro-La-SER-tahl A reptile closely related to dinosaurs and crocodile

Prolacerta



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2. Connect the continent pieces using the species color bands

3. Complete the puzzle by assembling Pangaea on the globe

Origins of Antarctica

SECTION ELEMENTS

- Plate tectonics interactive
- Pre-dinosaur fossils matching Antarctica and other continents
- Fleshed out recreation of Antactosuchus
- Reconstructed ancient forest



World of Antarctic Dinosaurs

Explore Early Jurassic Antarctica, a lush landscape teeming with dinosaurs that experienced the same polar darkness and auroras we can still observe today. Encounter rare fossils, large-scale replications, touchable casts, and interactive 3D models that bring Antarctica's unique dinosaur species to life. Marvel at Cryolophosaurus, the largest and most complete Early Jurassic theropod in the world and come face to face with a new-to-science sauropodomorph.



A WORLD OF ANTARCTIC DINOSAURS UN MUNDO DE DINOSAURIOS ANTÁRTICOS

Plan Stars



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imatically. Lee is nowhere to be found, and plants round you. As the southern lights shimmer in darkened sky, you sense the movement of large atures in the valley. Lintenso trabajo del equipo en Mente Kirkpetrick yeló un mundo pardido de dinosaurios antáricos.

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World of Antarctic Dinosaurs

SECTION ELEMENTS

- Recreation of many dinosaurs from Cryolophosaurus Quarry
- Real and cast skeletons
 - Cryolophosaurus
 - Glacialisaurus
 - "Jolly Roger:" the nearly complete skeleton of a juvenile sauropodomorph
- Touchable casts of bones
- Stations focused on anatomical details



Antarctica Transforms

How did Antarctica become the polar environment it is today? Shifting from the warm Mesozoic Era through the cooling of the continent, investigate the atmospheric mechanisms behind the dramatic transformation to a polar environment. View rare evidence of species from the late and post-dinosaur periods and examine the fauna and flora that call Antarctica home today.

Antarctica Transforms

SECTION ELEMENTS

- "Cooling of Antarctica" interactive
- Cretaceous dinosaur fossils
- Replicated penguin





Lessons from Antarctica

The research currently happening in Antarctica extends well beyond the excavation of dinosaurs. Together with the study of diverse scientific disciplines in the region, the examination of dinosaurs allows for a greater understanding of our planet's past, present, and future climate transitions.

ANTARCTICA: DATA-COLLECTING DESTINATION FOR THE WORLD LA ANTÁRTIDA: DESTINO MUNDIAL PARA LA RECOLECCIÓN DE DATOS



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Scientists studying climate change lichnes, and even space go to Antarcitica for their reserves. Despite having different specialities, they are there for the same purpose: to piece together the continents past and observe the present conditions. By Going buth, we can better understand the hurs of neight and there word.

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Lessons from Antarctica

SECTION ELEMENTS

- Multi-layered map of Antarctica
- Ice core technology
- Meteorites from Antarctica
- Participatory/Reflection experience



Antarctic Dinosaurs

Antarctic Dinosaurs was developed by the Field Museum, Chicago in partnership with the Natural History Museum of Los Angeles County, Discovery Place – Charlotte, NC, and the Natural History Museum of Utah. Generous support was provided by Kenneth C. Griffin.

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