



MAMMOTHS AND MASTODONS: TITANS OF THE ICE AGE

From 1.8 million to 10,000 years ago, as an Ice Age cooled global temperatures, colossal mammals roamed Europe, Asia, and North America. Sometimes standing more than 14 feet tall, the mammoth migrated across the Bering Land Bridge into a new world of grasslands and predators, humans not least among them. Slightly shorter, more heavily built, and indigenous to North America, the mastodon also marked an imposing presence on the Pleistocene landscape. What was life like for these animals, whose remains invite so much modern fascination and speculation?

In The Field Museum's exciting new traveling exhibition, **explore the world of mammoths and mastodons through an exciting collection of skeletons, casts, tusks, preserved flesh, immersive media, and engaging interactives.** Explore the Proboscidean family tree—from woollies to mastodons to dwarves to elephants—and meet other



amazing creatures such as the saber-toothed cat, giant short-faced bear, and dire wolf. Be immersed in a richly animated Ice Age panorama, and meet scientists analyzing mammoth DNA. Learn how hunters armed with stone spear points stalked their elephantine prey, and how the mighty Columbian mammoth evolved into an island dwarf species. Investigate why these incredible species died out, and whether it's possible to clone them today.

From the Pleistocene to the present, watch evolution in action and explore the dynamic world of *Mammoths and Mastodons: Titans of the Ice Age.*

EXHIBITION EXPERIENCE

1) Introduction

Enter the intriguing world of mammoths and mastodons and learn about the proboscidean family tree, which began 55 million years ago and spread all over the globe.

- Scientists have uncovered up to 160 different species in this order, some still surviving today.
- Encounter a mammoth skeleton against the backdrop of a time-lapse animation that transports visitors from the present to the ancient past.



2) Family Origins: Mammoth Ancestors

Journey to the wetlands of North Africa 35 million years ago and meet the distant ancestors of elephants, mammoths, and mastodons.

- Learn about the chronology of early proboscideans, compare and contrast their physical features, and track their migration into the far reaches of the northern hemisphere.
- Examine fossil skulls and other bones that show how early mammoths adapted to their different environments.
- See how tusks and teeth evolved, and explore their benefits through biomechanical interactives.
- Investigate what we can learn about mammoth bodies from elephants' dexterous trunks, keen hearing, and large ears.



Exhibition Details

SIZE:

Approximately 7,500–8,500 ft²
(650–800 m²)

RENTAL FEE:

\$300,000 for 3 months

AUDIENCE:

Adults, families, and school groups

APPROPRIATE FOR:

Natural history museums, science centers, and history museums

SHIPPING:

One-way, inbound, paid by host venue (international arrangements vary)

LANGUAGE:

All text in English; host venue may provide translation if desired

SUPPORT:

At least two experienced Field Museum staff technicians lead onsite installation and de-installation

Educators' Guide in English, including information for teacher, student, and public programs

Exhibitor Toolkit in English, including logo, installation shots, rights-free images, B-roll, and sample press release and advertisements

Range of wholesale products developed for the exhibition

Installation and Design Manual in English, detailing exhibition layout, installation, and maintenance



EXHIBITION EXPERIENCE (CONT'D)

3) Social Behavior: Woolly Families

Encounter the Ice Age landscape of Siberia to learn about the behavior, lifecycle, and social structure of woolly mammoths, perhaps the most famous of all mammoth species.



- Meet the most complete and best preserved mammoth ever found in the flesh, baby Lyuba, and learn about her ancient family through cutting-edge DNA research.
- Investigate fossil evidence that shows signs of fighting among adult males, and see how a baby mammoth's gender dictated its eventual role in the herd.
- Examine tusk cores as chronicles of mammoth lives.

- Immerse yourself in a Pleistocene landscape to see and hear a woolly mammoth family in motion.

4) Diverse Ecosystems: Not All Snow and Ice

Venture to western North America to see that although mammoths and mastodons lived during the Ice Age, they inhabited different environments that didn't always include extreme cold.



- Meet the Columbian mammoth, among the largest of the family, which could stand as high as 14 feet at the shoulder.
- See fossils and fleshed-out recreations of Ice Age megafauna, including short-faced bears, saber-toothed cats, camels, and dire wolves.
- Look through the eyes of mammoths from around the world, and explore the climates and landscapes of their different environments.
- Weigh yourself against a Columbian mammoth's appetite to see how much food it could consume in one day.

5) Human Interaction: Coexistence and Extinction

Travel to the North American Midwest to meet mastodons and one of their most significant neighbors: humans. Evaluate the evidence for the scientific theories behind the Pleistocene Extinction: what roles did hunting and climate change play?

- Learn to tell the difference between a mammoth and mastodon, and see fossil evidence from mastodon hunting sites.



- Examine important artifacts, such as Clovis points and atlatls, that illustrate the diverse tool and hunting traditions of North America and Eurasia during the Ice Age.
- See displays of Paleolithic art, including mammoth ivory figurines, and create your own cave art.
- Investigate extinction theories, and compare climate change during the Ice Age to climate change today.

EXHIBITION EXPERIENCE (CONT'D)

6) **Isolated Populations: The Littlest Mammoths**



As their geographic range gradually diminished, mammoths were pushed into the far corners of the world. Environmental adaptation led to smaller mammoths—including dwarf species—which were better suited to life on islands.

- Travel to California's Channel Islands 30,000 years ago to meet the dwarf mammoth, and examine the key features of smaller bodies.

- Learn how species change to adapt to new environments—a common process in evolution.
- See ancient mammoth fossils from islands around the world, and investigate life after the Ice Age.

7) **Survivors: Elephants Today**



Fast-forward to the future and return to present-day Africa and southeast Asia to see living members of the proboscidean family tree—elephants. Witness the conservation research efforts of today's scientists, and learn what modern elephants can tell us about their ancient cousins.

- Through stunning video footage, see conservation in action as scientists work to preserve these last species of the proboscidean family.

- Learn how mammoths and elephants lived as contemporaries in the past, and compare the ways in which their family behaviors are similar.
- See gorgeous images of the three surviving species of elephants, and learn what you can do to protect them for future generations.

This exhibition will open at The Field Museum in March 2010 and will travel internationally to ten additional venues.



For an exhibition prospectus, please contact:

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