

During an ice age, the weather has cold spells called **glacials** and warm spells called **interglacials**.

Many glacial advances and retreats have occurred over the last billion years, and they have had an enormous impact on the landscape.

## Changing landscape

As glaciers and ice sheets advance and retreat, they change the surface of the Earth, forming lakes, moving rivers, eroding land and depositing sand, gravel and rocks along their paths.

It is estimated that more than 60 glacial advances and retreats have occurred during the last 2 million years.

## The Great Ice Age

The current ice age, known as the **Quaternary glaciation**, peaked about 20,000 years ago, and its active glacial period ended about 11,700 years ago. Since then, we have been in an interglacial period.

Today, about 10% of the Earth's land is covered by glaciers. During the peak of this ice age, 32% of the land was covered by ice.



tons (2.8 metric tons). Frozen, naturally mummified mammoths have been found in Siberian ice

It is estimated that about 1/3 of the Earth was covered in ice, and some of the ice sheets

Closely related to modern-day Indian

elephants, these giants grew to weigh about 3

were up to a mile thick.

Megatherium

(pronounced MEGah-THAIR-ee-um) was

a giant ground sloth.

Andean-Saharan, Late Paleo-

Most of Canada was covered

with ice just 20,000 years ago.

age, since there are two major

continental ice sheets on Earth:

Greenland and Antarctica.

**Dwarf woolly mammoths** 

before becoming extinct.

survived on an isolated island

as recently as 5,000 years ago

Louis Agassiz, a Swiss-born

American zoologist, geologist

and paleontologist, was one of

the first scientists to study ice

ment of the glaciers created

Ice age people lived 35,000

years ago. They hunted

would have been wasted.

were glaciers in Hawaii.

Today, glaciers store about

ages. He proved that the move-

lakes and shaped landscapes.

mammoths and other creatures

for food and clothing. Nothing

About 18,000 years ago, there

75% of the world's fresh water.

If all land ice melted, the sea

230 feet (70 m) worldwide.

level would rise approximately

North America's largest glacier

is the Bering Glacier in Alaska.

measuring 127 miles (204 km)

From the 17th century to the late 19th century, the world experienced a "little ice age," when temperatures were consistently cool enough for signifi-

cant glacier advances to occur.

pressed, air pockets are forced out and it becomes very dense. This dense ice absorbs all other colors in the spectrum and reflects primarily blue, giving

the glacier a blue appearance.

Most of what we know about

ice age animals is from study-

ing fossils.

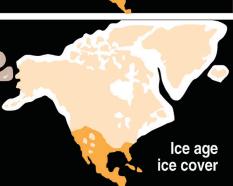
When glacial ice is com-

Today, we are still in an ice

zoic and Quaternary.

Its name means "great beast." Megatherium was a huge (about the size of an elephant), slow-moving herbivore with peg-shaped teeth and powerful jaws. It lived during the Pleistocene epoch in what is now South America. It went extinct about 11,000 years ago.





SOURCES: World Book Encyclopedia, World Book Inc.; https://www.ducksters.com; https://study.com; Glacier National Park; https://kidskonnect.com; https://online.kidsdiscover.com; https://www.history.com

you-IN-tah-THEER-ee-um)

like mammal (not a dinosaur).

was a huge, rhinoceros-

**Uintatherium** 

(pronounced

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