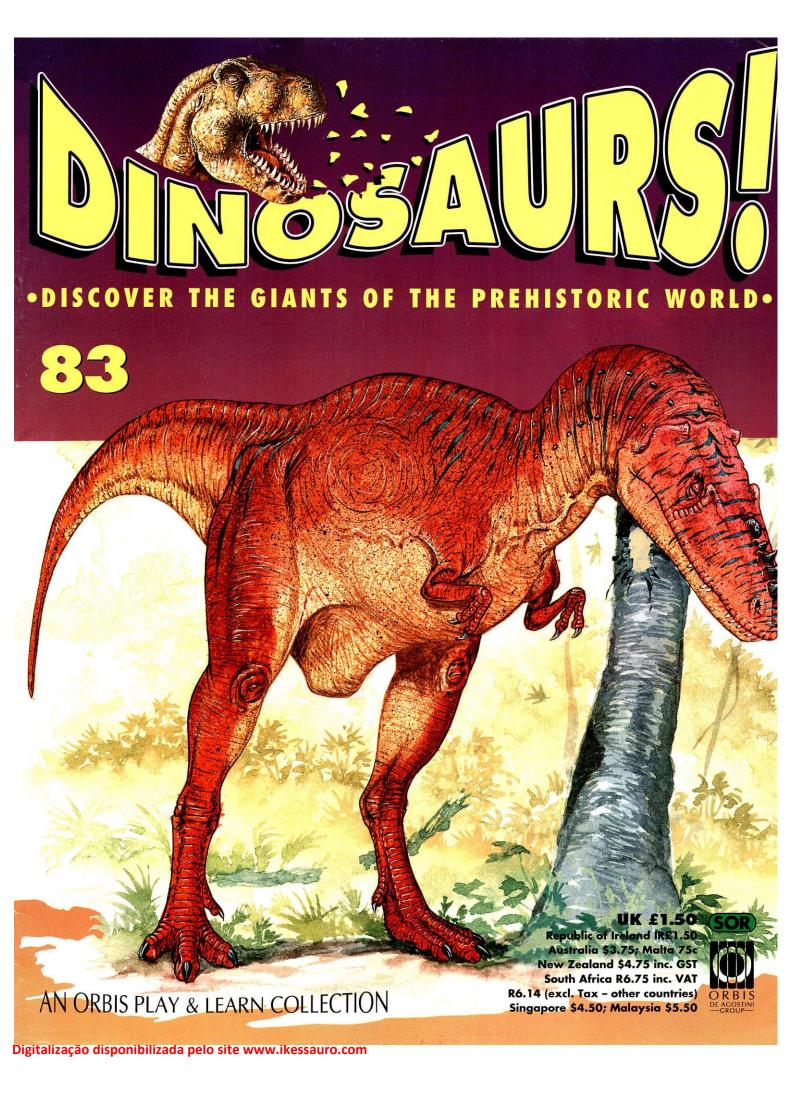
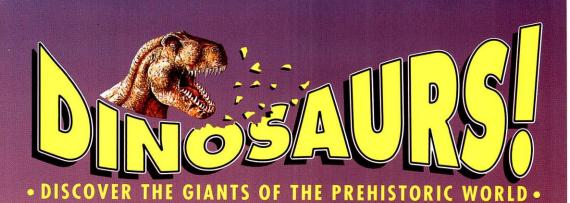
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Meet three more amazing prehistoric creatures:

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1988



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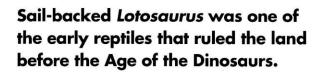
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LOTOSAURUS





he fossil skeleton of an extraordinary animal was discovered in Hunan province, China. It was

named *Lotosaurus*, which means the 'lizard from Loto', after the place where it was found.

DINOSAUR ANCESTORS

Lotosaurus was a member of a group of animals called the thecodonts.

They were a very important order of reptiles.

The thecodonts gave rise to the crocodiles, dinosaurs and pterosaurs.

ALL-POWERFUL

There were many different groups of the codonts. Together they dominated the whole Triassic world, about 230 million years ago.

TOOTHLESS WONDER

Most thecodonts ate meat. But Lotosaurus probably lived on plants. It did not have any teeth, but it had a beak-like jaw. This prehistoric herbivore probably ate rather like today's tortoise. It used the sharp cutting edge of its jaws to nip through the stalks of plants and tear off bits of leaves.

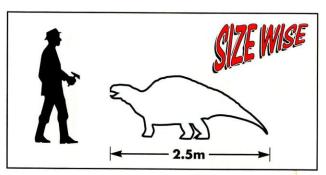
FAST FOOD

Lush ferns and horsetails flourished by pools and streams in Triassic times. Lotosaurus probably spent much of the day munching the lowgrowing vegetation that grew by the water's edge. Lotosaurus would have needed to eat huge quantities of food to keep its big body going. A full-grown Lotosaurus could measure as much as 2.5m from nose to tail.



MONSTER FACTS

- NAME: Lotosaurus (<u>low</u>-toe-<u>saw</u>-rus) means 'lizard from Loto'
- GROUP: reptileSIZE: up to 2.5 m long
- FOOD: plants
- LIVED: about 230 million years ago in the Mid Triassic Period in China

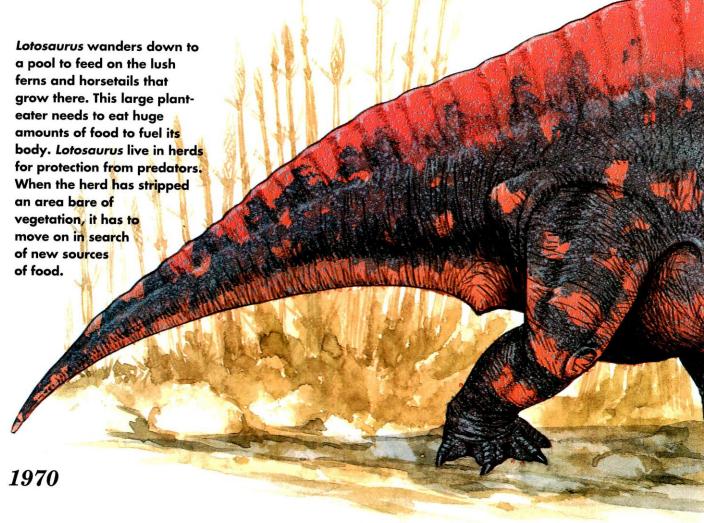


SAFETY IN NUMBERS

Lotosaurus did not have sharp teeth or tusks to defend itself. This slow, peaceful plant-eater would have made an easy target for hungry meat-eating reptiles, such as *Cynognathus*. Lotosaurus may have lived in herds for protection against predators. They would have roamed around in large groups, foraging for food.

SAILING ALONG

When experts discovered the *Lotosaurus* fossils, they were fascinated by the long spines that ran all the way down the *Lotosaurus*' back. These bony 'swords' may have supported a skin 'sail'. *Lotosaurus* was not the only sail-backed thecodont. The smaller, lizard-like *Longisquama* had an amazing fan of tall, stiff scales.





SOLAR PANEL

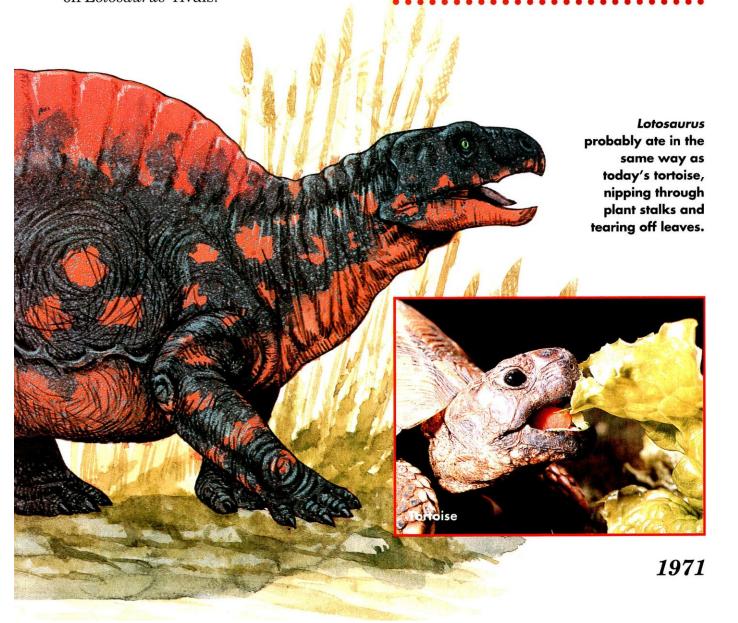
Scientists are not really sure what Lotosaurus' sail was used for. It may have stored heat from the sun, like a solar panel. This would have allowed Lotosaurus to be active in the early morning when most reptiles are quite slow-moving. Reptiles are cold-blooded, which means they need warmth to stay active. That is why most reptiles live in hot, sunny countries. It may be that the sail also stopped the plant-eater overheating when the sun blazed down. There is another theory that the sail was used to attract mates, or to scare off Lotosaurus' rivals.

IT'S A FACT

WALK TALK

Over millions of years, thecodonts changed the way they moved. Gradually, their legs changed position – they started growing more directly underneath their bodies, instead of sprawling out to the side.

Some later varieties could even walk on two legs. Experts believe these thecodonts are the ancestors of the dinosaurs.





ALIORAMUS

Alioramus was one of the strangest-looking tyrannosaurs.



iant *T rex* and most other tyrannosaurs had huge heads and short snouts, but not

Alioramus. Not only did this tyrannosaur have a unique ridge of horns on its nose, it also had a long, thin head.

THE TERRIBLE TYRANTS

The tyrannosaurs were the largest carnivores that ever lived on land. So far about 12 different types have been found. They all had strong bodies and weak arms.

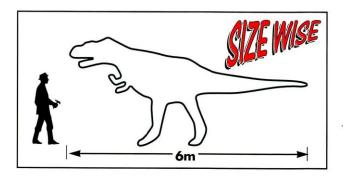


Alioramus had sharp, curved teeth for slicing up flesh. Its lower jaw was longer and slimmer than other tyrannosaurs', so its bite was less powerful.

NOSE JOB

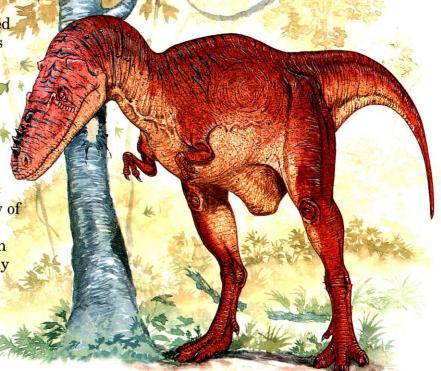
Alioramus was about half as long as *T rex*, but it was still enormous. The row of bony knobs along its nose must have made it look even more scary. These horns may have been for display, for distinguishing males from females.

1972



MONSTER FACTS

- NAME: Alioramus (<u>ay</u>-lee-oh-<u>ray</u>-mus) means 'different branch'
- GROUP: dinosaur
- SIZE: 6m long
- **FOOD:** meat
- LIVED: about 80 million years ago in the Late Cretaceous Period in Mongolia





SIVATHERIUM

This prehistoric giraffe looked more like today's moose.



here are only two types of giraffe around today – the long-necked giraffe we all know, and the okapi. Millions

of years ago there were many more varieties. They spread from Africa to Asia.

FOUR HORNS

Sivatherium fossils were first found in India, and it was named after the Hindu

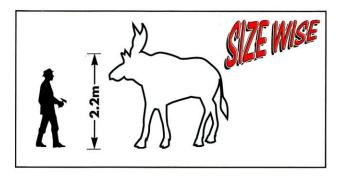
god Siva. It
had two pairs
of horns –
two short
ones and two
long ones.



Sivatherium had a short neck and legs. It also had a big body and powerful shoulders to support its huge head.

CHEW IT UP

Sivatherium's stomach was designed to help it digest its diet of tough grasses. When the food was half digested, it returned to the mouth to be chewed a second time. All this took a long time, so Sivatherium probably spent most of the day eating!



MONSTER FACTS

- NAME: Sivatherium (siv-ah-thee-ree-um) means 'Siva beast'
- GROUP: giraffe
- SIZE: 2.2m high at the shoulder
- FOOD: plants
- **LIVED:** about 1–5 million years ago, from the Pliocene to the Late Pleistocene in India and north Africa





Atlas of finds

ASIA

Some of the most spectacular finds from the prehistoric world have been uncovered in Asia.

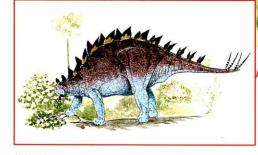
any of the prehistoric animals found in Asia are dinosaurs. And, of all the Asian countries, China has had the most dinosaur finds. Most of

the creatures found there are unknown anywhere else in the world. Expeditions to the Gobi Desert in Mongolia have uncovered fantastic dinosaurs, as well as other prehistoric creatures. Indian dinosaurs range from the huge sauropod *Barapasaurus* to the armour-plated stegosaur *Dravidosaurus*. Dinosaurs have been found in Siberia, too, but the most astonishing Siberian finds are the frozen mammoths. There are still many more discoveries to be made in Asia.

SIBERIA
One of the coldest
places on Earth has
given us some of
the most exciting
prehistoric finds. Since
1901, when the first
complete frozen
mammoth (1) was
discovered, about 25
deep-frozen bodies
have been found.

MONGOLIA Khermeen Tsay in the Gobi Desert was the site of the first American expedition to Mongolia. It was led by Roy Chapman Andrews in 1923, and the team discovered the dinosaur Oviraptor (2). It was lying next to a nest full of Protoceratops' eggs and its skull was smashed. Scientists think it was caught stealing eggs, and was killed by

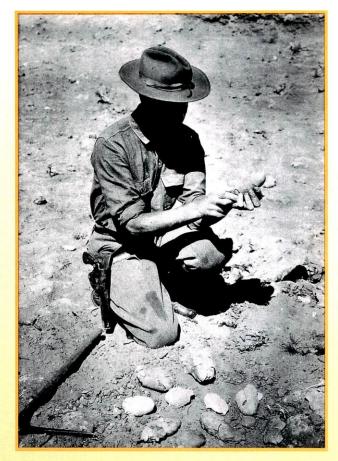
the mother.



INDIA

The stegosaur *Dravidosaurus* (9) was discovered in Tiruchirapalli, southern India, in 1971. Like *Tuojiangosaurus*, its Chinese cousin, *Dravidosaurus* was covered in protective armour and spikes.





GREAT GOBI

The Gobi Desert, which is partly in China and partly in Mongolia, has marvellous fossils. This part of the world has never been crunched up by one continent crashing into another, so the desert sandstone has remained undisturbed for millions of years. There are probably many exciting fossils still waiting to be found.

DASHING DISCOVERER

Roy Chapman Andrews began his career in palaeontology by scrubbing the floor of the American Museum of Natural History in New York. But he went on to discover lots of wonderful dinosaurs in Mongolia. In between digs he dashed around the desert in a car and fought off bandits. He became a hero and the inspiration for the character Indiana Jones.

1976

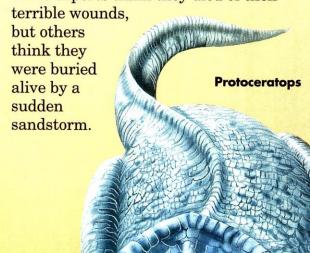
Roy Chapman Andrews (left) is studying the nest of *Protoceratops'* eggs he found in Mongolia in 1923.

EGGS IS EGGS

Andrews' most important discovery was a nest of 13 *Protoceratops*' eggs found in 1923. They were the first dinosaur eggs ever seen. At first, the expedition members didn't believe the strange oval 'stones' were eggs. But Andrews wrote later, 'we had to agree that eggs is eggs'.

BURIED TREASURE

When Altangerel Perle, the Mongolian palaeontologist, and a Polish expedition were digging in the great Mongolian desert in the 1970s, they uncovered two fossilized skeletons in the same place. It was obvious from the position of the skeletons that *Velociraptor* and *Protoceratops* had died fighting each other. Some experts think they died of their terrible wounds



MONSTER OF THE DESERT

The Polish Mongolian expedition that found *Deinocheirus*' arms in 1965 must have been glad that the creature itself was no longer roaming around the Gobi Desert. It must have been a real monster! Each of its arms was about 2.6m long, and they ended in enormous claws. Experts think *Deinocheirus* may have been an 8m-long ostrich dinosaur.

CHINESE DISCOVERY

In the early 1950s, the Chinese palaeontologist C. C. Young was searching rocks in Sichuan Province, China, when he uncovered a huge fossil skeleton. When measured, it turned out to be 22m long, with a 15m-long neck. This is the longest neck of any animal (a giraffe's neck is only 2m long). C. C. Young named the dinosaur Mamenchisaurus. It was so huge it took three months to dig it out. Professor Young found and named many dinosaurs, including *Lufengosaurus* and Tsintaosaurus. He is known as the 'father of Chinese palaeontology'.

that there are lots of Chinese dinosaurs?

Yes. Only North America has more named dinosaurs. China has, so far, named about 95. But more are being studied and have not yet been named. Two great Chinese palaeontologists – C. C. Young and Dong Zhiming – have studied, described and named many of these dinosaurs. Between 1973 and the late 1980s, Dong named 19 different types of dinosaur, including Tuojiangosaurus (right).

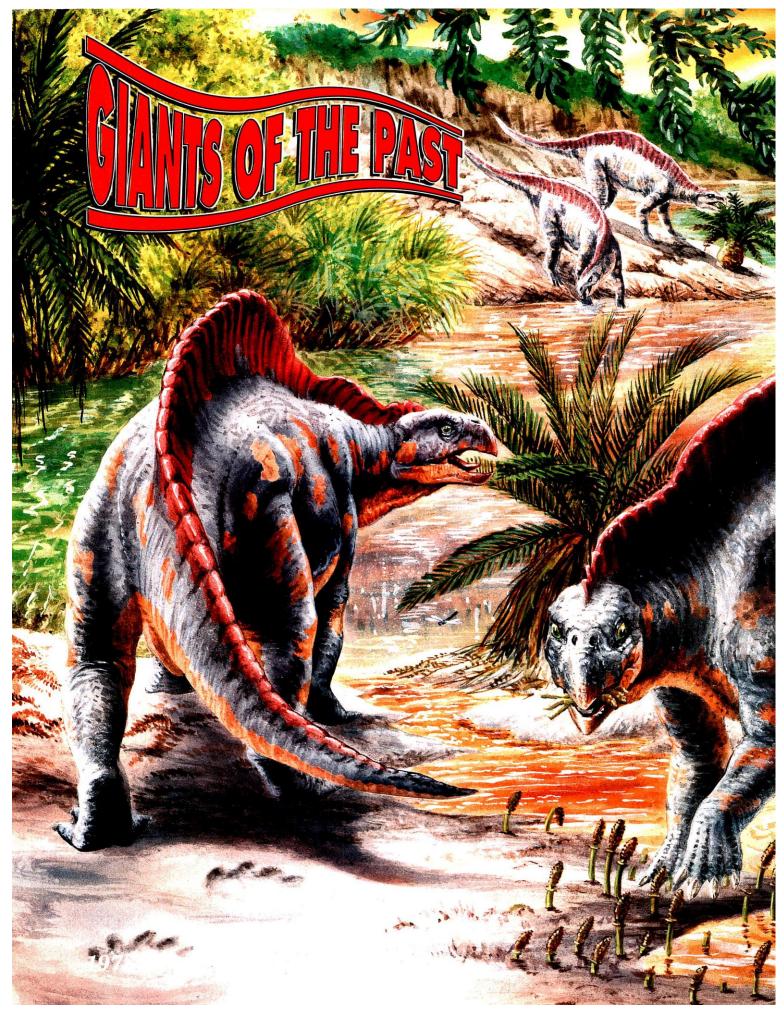
Scientists hope one day to discover the rest of *Deinocheirus'* body. Until then, we can only guess what this massive creature really looked like.

IS IT A DINOSAUR...OR IS IT A BIRD?

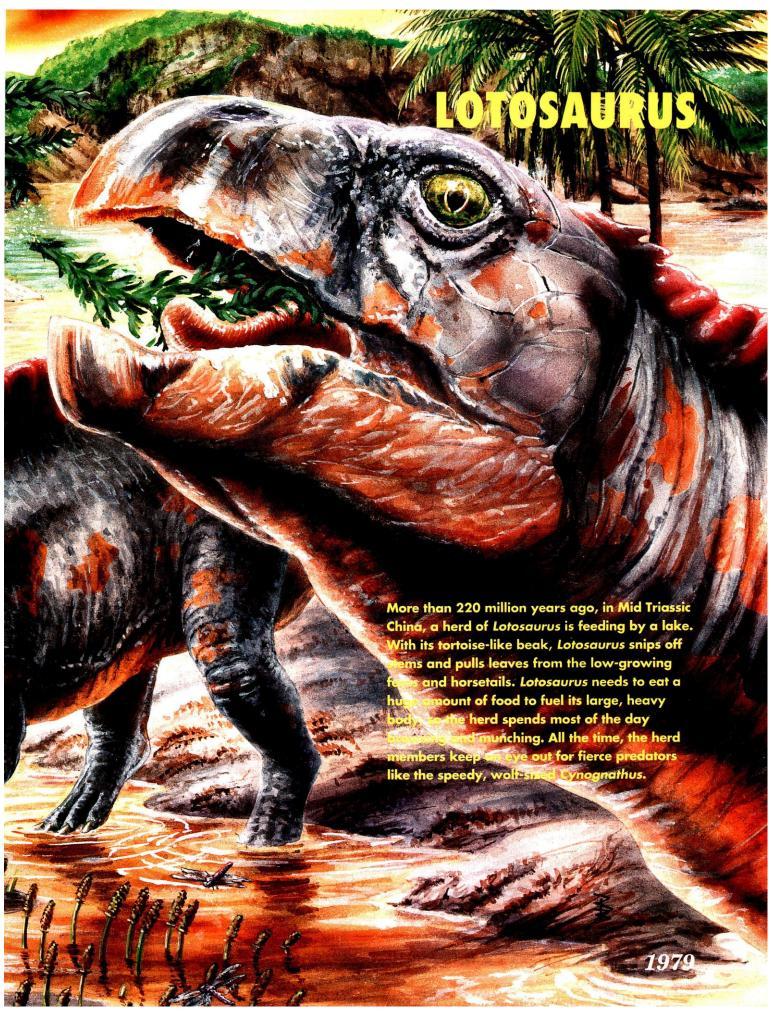
Fossils of a strange animal were found in the Gobi Desert in 1923. At first, experts thought it was a dinosaur. Experts are now convinced that this Mongolian fossil is a bird. *Mononykus* did not have wings, so it is a very primitive bird. But it lived millions of years after *Archaeopteryx* – an early bird that did have wings. Did

birds evolve wings at
different times
in different
places?
Experts are
still not
sure.

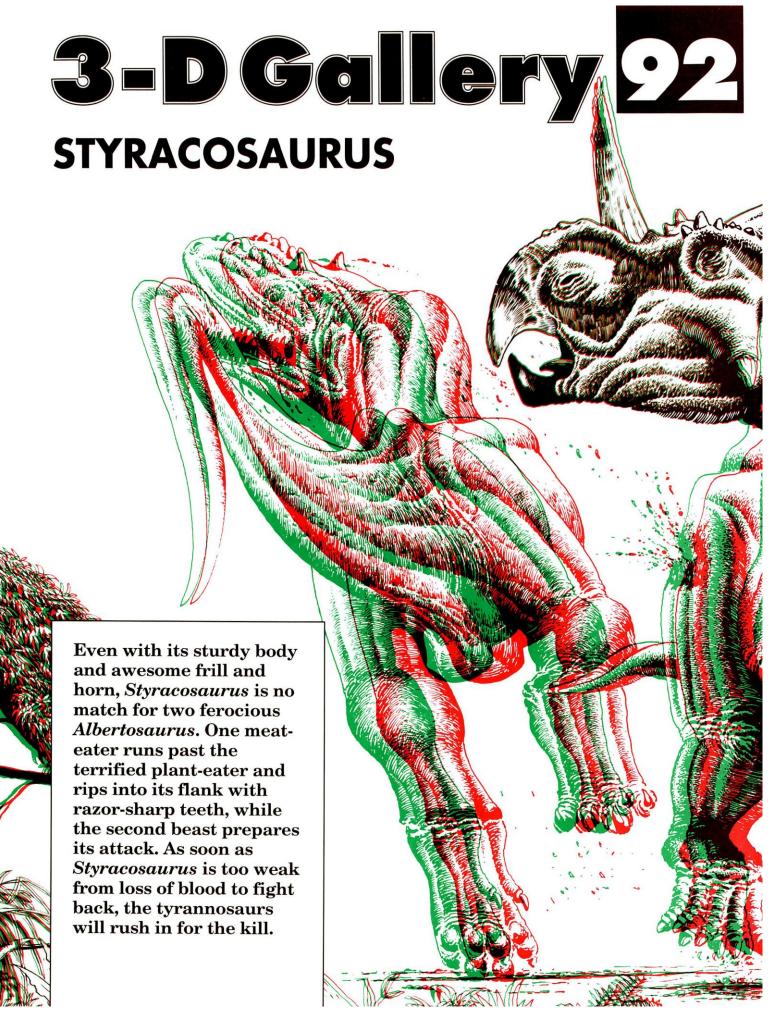
Tuojiangosaurus



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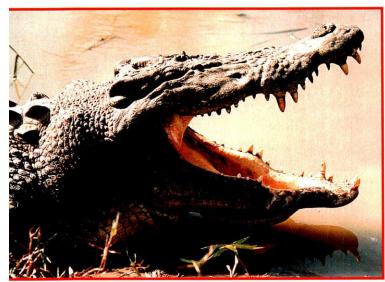
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Ruling reptiles

Crocodiles were fearless hunting machines in the days of the dinosaurs and are still top carnivores today.

rocodiles have changed little since their ancestors first appeared about 160 million years ago. Today, they are ferocious hunters with little to fear except old age or being hunted by people! Prehistoric crocodiles were just as fierce.

CROCODILES OR NOT?

The earliest known crocodiles did not look much like today's crocodiles and they were not even recognised as crocodiles until 1980. *Gracilisuchus* from the Mid Triassic was well adapted for life on land. It was only 30cm long and ran upright on its slim hind legs, balanced by its large tail.



Today's crocodiles, such as the Saltwater Crocodiles of North Australia (tup left) and the gavial (above are very like their prehistoric ancestors.

Gracilisuchus (left) probably hunted for lizards on land. Rhamphosuchus (above) ate fish, small mammals and birds.



A SMALL START

Today's crocodiles are probably descended from a family of really small crocodiles, the *Atoposauridae*. Their fossils have been found in Asia, Europe and North America. The largest, *Alligatorium*, was only 40cm long. These little Jurassic reptiles were more at home on land than in the water.

Phosphatosaurus looked like today's gavial but with a big, heavy jaw.

PAST GIANTS

At the end of the Cretaceous Period, a wave of extinction swept the world. The dinosaurs completely died out, but the prehistoric crocodilians lived on!
Huge reptiles such as Phosphatosaurus, a 9m-long crocodile from the Early Cenozoic, continued to flourish when all the dinosaurs were extinct.

Phosphatosaurus did

Phosphatosturus did not feed on fish. Instead its Junt back teeth vere

just the job for cracking turtle she is. One of the biggest ever crocod les was Rhamphosuchus.

This giant lived about 6 million years ago, and was an impressive 15-18m long!

CARING PARENTS?

Scientists have only recently realised that crocodiles care for their young. They guard their eggs and look after the small habies. If danger threatens, they will even carry their young to safetyin their mouths (above). Perhaps prehistoric crocodiles did the same and this may be one reason they survived when the dinosaurs did not.



Fossils in the coal

At Messel in Germany, fossils in a coal mine give a complete picture of prehistoric life in Tertiary times.

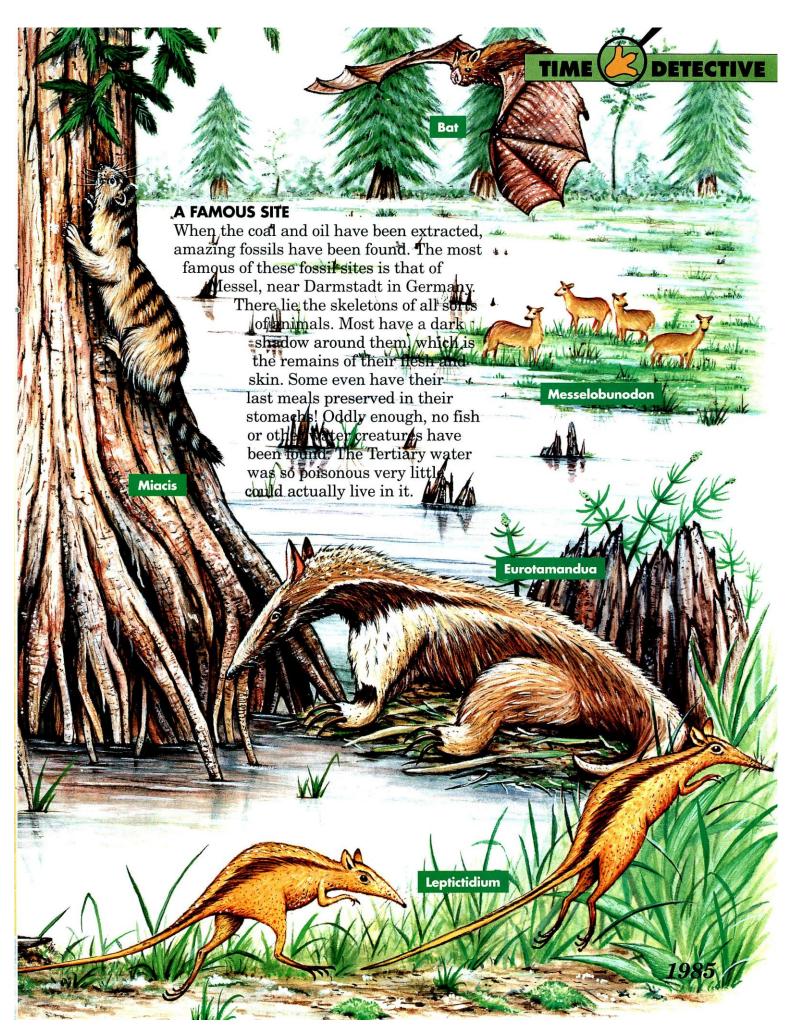
etween 66 million and about two million years ago, Europe had a tropical climate. Swamps, like the Everglades in Florida today, spread over much of what is now Germany and Poland. In some areas the waters formed very still and stagnant lakes. These lakes did not contain enough oxygen to break down

HAPLESS ANIMALS

Any insect that buzzed across the surface and became trapped in the water, any bird or bat falling in, any dead animal washed in by the surrounding streams, was buried in the deep layers of mud and peat that built up in the bottom of these lakes.

COALAND OIL

Slowly, over thousands of years, the peat turned into seams of brown coal, called lignite. In some of the Tertiary takes, th bottom muds became so filled with plant and animal the plants and animals that remains that they fell into them. turned into rock Lophiodon **Pholidocercus**



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UNIQUE TREASURE TROVE

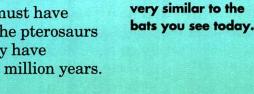
The rocks from Messel are unique.

Trapped within them are a selection of all the animals that lived 50 million years ago in northern Europe. This kind of treasure trove is called a *lagerstatten* (<u>lar-ga-shta-ten</u>). This is the name for a deposit

of fossils that is so detailed experts can tell exactly what the animals must have looked like when they were alive.

BATS LIKE TODAY'S

More than 150 fossil bats have been discovered at Messel. Bats must have evolved quite quickly after the pterosaurs and dinosaurs died out. They have changed little in the past 50 million years.



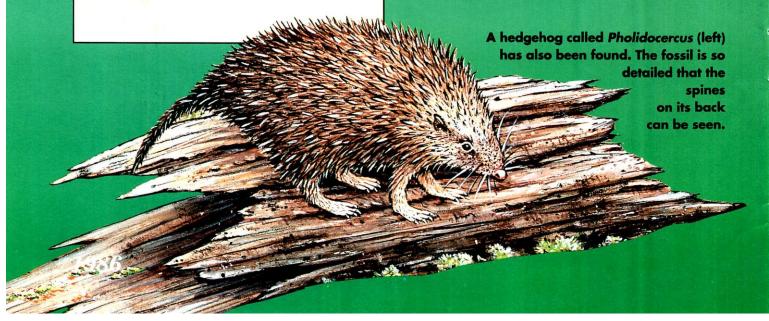


When dead plants are buried without having a chance to rot away, they form a substance called peat. Peat is made up of three basic elements: carbon, hydrogen and oxygen. As time goes on, this peat can very gradually change to lignite (or brown coal), then to bituminous coal (black coal) and then to anthracite (hard coal). At each stage the amount of carbon increases, and the fuel is of a better quality than the one before.

FOSSIL PUZZLE

Prehistoric bats would have looked

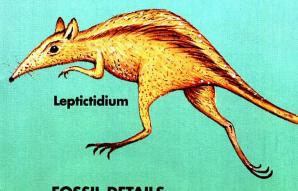
Some of the finds are animals that are very different from today's creatures. A little shrew-like animal called *Leptictidium* (right) had long hind legs and a long balancing tail. Scientists once thought that it must have run on its hind legs because of the arrangement of the hip bones. But when they looked at the hip bones again, they had second thoughts. The hips were so well preserved that they could tell that the legs were built not for running, but for jumping.





SURPRISING ANTEATERS

An anteater called Eurotamandua has also been found. This is very surprising because today anteaters live only in South America. Anteaters probably evolved in Europe about 50 million years ago, then migrated to South America, where they still survive. But for some reason they became extinct in Europe and only fossils remain. The Lophiodon tells a similar story. It is an early form of tapir. But today, tapirs live only in parts of South America and Malaysia.



FOSSIL DETAILS

A fossil pangolin, Eomanis, has also been discovered at Messel. Pangolins are related to anteaters. The Messel pangolins are very similar to today's African anteater except they are covered with scales. The Eomanis fossil is so detailed that these scales can be clearly seen. And what did the anteaters and pangolins eat? Ants, of course. Yes, even fossil ants have been found at Messel!

CAUGHT IN THE COAL

Many of these animals were in turn hunted and eaten by other creatures. A complete skeleton of Miacis, a distant relative of the cat, has been found. It looked very similar to a modern cat, with short legs and a long tail. It probably hunted in the same way. There were larger animals too. Messelobunodon was like an early antelope with long running legs and hoofs. It was about the size of a large dog.



A CLOSE THING

All these amazing, detailed fossils, including the bird above, were almost lost to us forever. It is many years since the mine at Messel was worked to extract its oil shale, and a great hole in the ground was all that remained. Local councils wanted to use this pit as a handy rubbish tip for nearby towns. For 10 years there was a fierce battle between the politicians and the scientists about whether the site should be preserved or filled in with refuse. At last, in 1988, they finally reached an agreement. The Messel pit, with all its wonderful fossils, was to be saved for scientific research.







Improve and test your knowledge with.

Follow the footprints on the mammoth's back and answer the questions posed!

Live birth? The bone-headed dinosaurs, such as Pachycephalosaurus, had very wide hips. Some experts think that this means they gave birth to live young, rather than laying eggs!

Bones by numbers

All theropods had the same number of vertebrae in their necks (10), their backs (13) and their hips (5). Reptiles, birds and even the plant-eating dinosaurs are much more variable in the number of vertebrae they have.

> A lagerstatten is the scientific name for:

- a) a German coal mine
- b) a deposit of fossils
- c) a kind of coal

Sail-backed Lotosaurus was a:

- a) thecodont
- b) tortoise
- c) dinosaur

The creature with the longest neck of any known animal is:

- a) Deinocheirus
- b) Yangchuanosaurus
- c) Mamenchisaurus

The first time the remains of a dinosaur nest and eggs were discovered was:

- a) in 1923
- b) in 1844
- c) in 1980

Which prehistoric creature was named after a Hindu god? a) Dravidosaurus

- b) Sivatherium
- c) Mononykus

Alioramus' head had:

- a) a ridge of horns
- b) a pair of antlers
- c) a coloured crest

The crocodile Phosphatosaurus used its blunt back teeth to:

- a) catch fish
- b) grind up plants
- c) crack open turtle shells

Gracilisuchus ran on two legs, ate lizards and was a:

- a) dinosaur
- b) crocodile
- c) pterosaur

Deinocheirus' arms measured about:

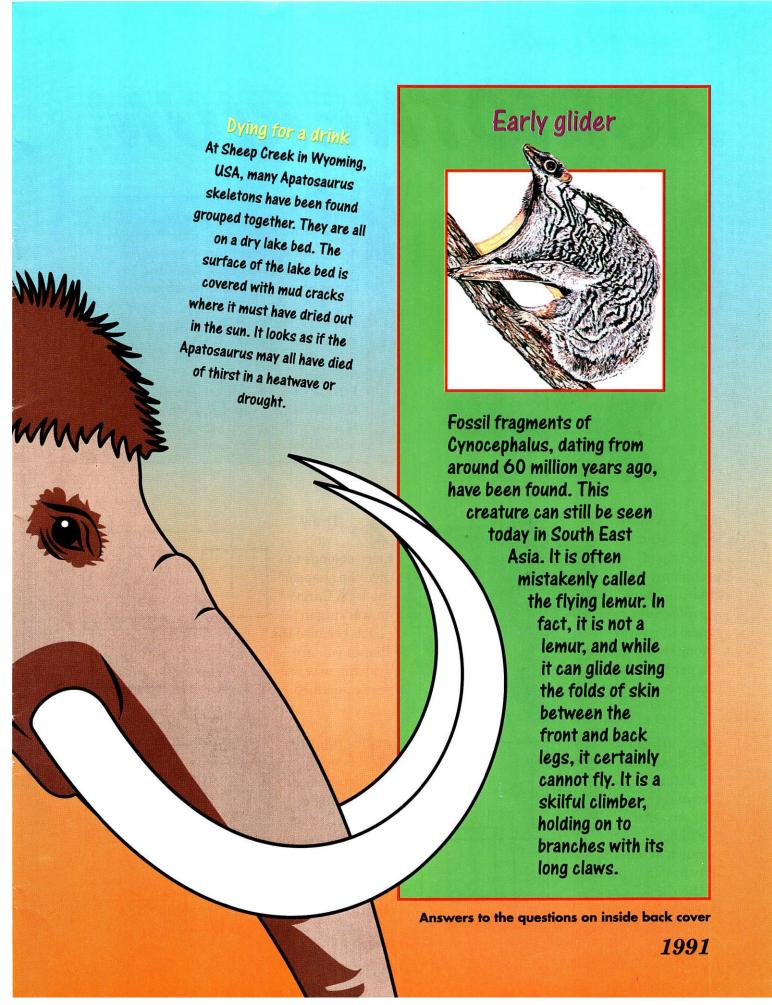
- a) 1m long
- b) 7.2m long
- c) 2.6m long

Roy Chapman 10 Andrews began his career by:

- a) digging up dinosaurs
- b) scrubbing floors
- c) fighting bandits

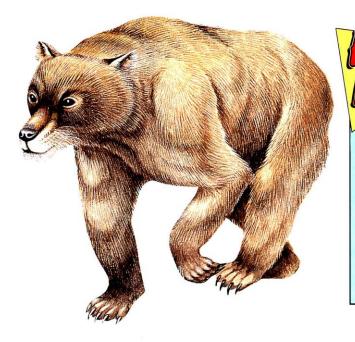








AGRIOTHERIUM

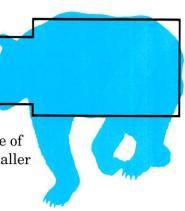


Agriotherium was a kind of primitive bear. Remains of Agriotherium have been found in Europe, Asia and in Langebaanweg in South Africa.

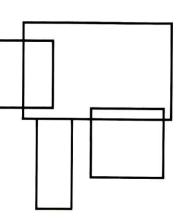
- NAME: Agriotherium (a-gree-o-theeri-um) means 'wild beast'
- GROUP: mammal
- SIZE: 2m long
- FOOD: berries, insects, fish and meat
- LIVED: over 20 million years ago in the Miocene in Europe and Asia and survived in South Africa until the Pliocene.

Add to your collection of prehistoric creatures with Agriotherium.

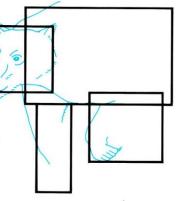
Pencil in a large oblong in the middle of the paper. Put a smaller oblong on one end.



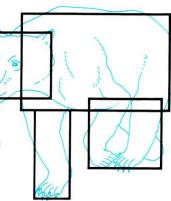
Draw two more oblongs to give the shape of the legs. Carry on working in pencil because the shapes you are drawing now are just guidelines.



Begin to sketch in the details of the face and claws. You can start working in colour now, or you may prefer to pencil in the whole bear before colouring it.



Finish your prehistoric bear by painting or colouring in the fur. Don't make the fur one solid colour. It looks more realistic if you use white highlights.



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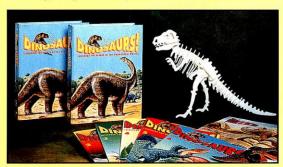




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ANSWERS TO FACT FILE QUESTIONS: 1.b 2.a 3.c 4.a 5.b 6.b 7.c 8.a 9.c 10.

