



## OF DINOSAURS AND OTHER PREHISTORIC ANIMALS



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For Jake, with apologies for not having written this earlier! MB

For Sami, so that he never ceases to be amazed by the great, diverse and strange planet we live on. PB

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# OF DINOSAURS AND OTHER PREHISTORIC ANIMALS

### WRITTEN BY MIKE BARFIELD ILLUSTRATED BY PAULA BOSSIO



**CONTENTS** 

INTRODUCTION	8
ENTER THE ANIMALS	٩
Charnia	10
Living Legends: Jellyfish	11
Anomalocaris	12
Trilobite	14
Opabinia	16
Dead Cool: Cambrian Catwalk	17
Living Legends: Brittle Star	18
Dead Cool: Deep Dive	19
Eurypterid	20
Living Legends: Silverfish	22
Coelacanth	23
Dunkleosteus	24
Tiktaalik	26
Dead Cool: Go Fìsh!	27
Arthropleura	28
Lìvìng Legends: Mayfly	30
Hylonomus	31
Медапеига	32
Dead Cool: Fashionably Late	34
Dìplocaulus	35
Dimetrodon	36
Dead Cool: Over and Out	38
DINOSAUR DAYS	39
Lystrosaurus	4C
Living Legends: Tuatara	41
Coelophysis	42
Dead Cool: Bouncing Back	44
Leedsichthys	45
Allosaurus v Stegosaurus	46

Living Legends: Horseshoe Crab

ALAR A



46

48





## INTRODUCTION

This isn't just a book — it's a time machine! Dip into the pages that follow and you'll travel back hundreds of millions of years to meet many of Earth's previous occupants.

'Prehistoric' means from a time before people were able to record or write things down. Before humans came along, there were all manner of weird and wonderful animals that we now know only from fossils – rocky clues that scientists use to picture the past.

Scientists are able to use fossils to guess at how prehistoric animals lived. However, many of these animals' characteristics and behaviours remain shrouded in mystery.

This book uses the best information available to bring some of those amazing animals back to life and tell their stories. Alongside those stories are 'Dead Cool' guides, catching up with additional early animals, and 'Living Legends' pages, highlighting the ancient species that are still with us today.

Yes, you'll meet dinosaurs, but you'll also meet killer shrimps, fearsome fish, walking whales and your own ape-like ancestors. So, sit down, strap in and set the time machine controls to 'prehistoric' – you're in for a wild ride!

### ENTER THE ANIMALS: PALEOZOIC ERA

Life began on Earth about four billion years ago. No one is sure how it started, but it took billions of years to evolve from tiny microbes into complex animals.

This chapter presents some of Mother Nature's earliest experiments. Like many experiments, some went wrong and animals died out in a process known as 'extinction'.

Scientists are able to date fossils by looking at the rocks they are found in. Animals first appeared in the sea, in a distant time period called the Precambrian. A mere 200 million years later, Earth's early animals had taken their first steps on land.

Get ready to meet some of your very oldest relatives!

#### PERIODS AND ERAS

Periods are grouped together into longer stretches of time called 'eras'. Throughout this book, you can find out what period you're reading about by checking the top corner of the page. To see how all the different periods and eras flow together, take a look at the timeline on page 94.

#### PRECAMBRIAN

## CHARNIA

600 million years ago, it was a very watery world ...



## JELLYFISH

LIVING LEGENDS 0 0 0

HI! I'm a jellyfish - one of the few really early animals to have survived into modern times. Although we do contain a type of jelly, we're NOT ACTUALLY FISH. Instead, we're related to sponges and sea anemones.

SEA ANEMONES

0 0 0 0

40

COUSINI

DO I KNOW **YOU?** 

> WHAT KEPT **YOU**?

'SEA JELLIES' is a better name. Our ancestors first appeared 600 MILLION YEARS AGO. That's about 100 million years before fish.

#### SLOWCOACH!

00

EINE O

si ju LUM LNU

We may have been the first animals to move using muscles. We swim along by PULSING our bodies.

We can also SQUIRT water to propel ourselves away from danger!

WHEEEEE!

SQUIRT

ALLSE

Because of our SOFT BODIES, the first sea jellies left very few fossils behind. But we've barely changed in all these years. We even still EAT AND POO through the same single hole in our bodies.

I'M OUTTA HERE!

DON'T MENTION THE POO THING! **EMBARRASSING!** 

