

# T Rex And The Crater Of Doom

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**Surf, Sand, and Stone** - Keith Heyer Meldahl 2015-10-13  
"Meldahl takes the reader on a tour of coastal Southern California, deftly explaining its complex geologic history, coastal geology, surfing spots, and the processes that shape them. Richly illustrated and

told with great humor and enlightening analogies, Surf, Sand, and Stone is easily accessible yet contains valuable resources for those who want to delve deeper."—Mark Johnsson, staff geologist, California Coastal Commission "Surf, Sand, and

Stone is an entertaining and very readable explanation of the complex geology and oceanography of the Southern California coast. Meldahl must be an excellent teacher as he has a real gift for writing about complex topics in a comfortable, engaging, and fascinating manner." —Gary Griggs, Director, Institute of Marine Sciences, UC Santa Cruz Southern California is sandwiched between two tectonic plates with an ever-shifting boundary. Over the last several million years, movements of these plates have dramatically reshuffled the Earth's crust to create rugged landscapes and seascapes riven with active faults. Movement along these faults triggers earthquakes and tsunamis, pushes up mountains, and lifts sections of coastline. Over geologic time, beaches come and go, coastal bluffs retreat, and the sea rises and falls. Nothing about Southern California's coast is stable. Surf, Sand, and Stone tells the scientific story of the Southern California coast: its

mountains, islands, beaches, bluffs, surfing waves, earthquakes, and related phenomena. It takes readers from San Diego to Santa Barbara, revealing the evidence for how the coast's features came to be and how they are continually changing. With a compelling narrative and clear illustrations, Surf, Sand, and Stone outlines how the coast will be altered in the future and how we can best prepare for it.

Hadrosaurs - David A. Eberth  
2014-11-05

A comprehensive study of the Late Cretaceous, duck-billed dinosaur, featuring insights on its origins, anatomy, and more. Hadrosaurs—also known as duck-billed dinosaurs—are abundant in the fossil record. With their unique complex jaws and teeth perfectly suited to shred and chew plants, they flourished on Earth in remarkable diversity during the Late Cretaceous. So ubiquitous are their remains that we have learned more about dinosaurian paleobiology and paleoecology from

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hadrosaurs than we have from any other group. In recent years, hadrosaurs have been in the spotlight. Researchers around the world have been studying new specimens and new taxa seeking to expand and clarify our knowledge of these marvelous beasts. This volume presents the results of an international symposium on hadrosaurs, sponsored by the Royal Tyrrell Museum and the Royal Ontario Museum, where scientists and students gathered to share their research and their passion for duck-billed dinosaurs. A uniquely comprehensive treatment of hadrosaurs, the book encompasses not only the well-known hadrosaurids proper, but also Hadrosauoidea, allowing the former group to be evaluated in a broader perspective. The 36 chapters are divided into six sections—an overview, new insights into hadrosaur origins, hadrosaurid anatomy and variation, biogeography and biostratigraphy, function and growth, and preservation, tracks, and traces—followed by

an afterword by Jack Horner. “Well designed, handsome and fantastically well edited (credit there to Patricia Ralrick), congratulations are deserved to the editors for pulling together a vast amount of content, and doing it well. The book contains a huge quantity of information on these dinosaurs.” —Darren Naish, co-author of *Tetrapod Zoology*, *Scientific American*

“Hadrosaurs have not had the wide publicity of their flesh-eating cousins, the theropods, but this remarkable dinosaur group offers unique opportunities to explore aspects of palaeobiology such as growth and sexual dimorphism. In a comprehensive collection of papers, all the hadrosaur experts of the world present their latest work, exploring topics as diverse as taxonomy and stratigraphy, locomotion and skin colour.” —Michael Benton, *University of Bristol*

[Dinosaurs in the Sea](#) - Dougal Dixon 2003

Presents information on flying reptiles and birds that ruled

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the prehistoric skies and, when turned over, information about the creatures found in prehistoric seas.

**The Worst of Times** - Paul B. Wignall 2017-05-09

260 million years ago, life on Earth suffered wave after wave of cataclysmic extinctions, with the worst--the end-Permian extinction--wiping out nearly every species on the planet. This book delves into the mystery behind these extinctions and sheds light on the fateful role the primeval supercontinent, known as Pangea, may have played in causing these global catastrophes. Drawing on the latest discoveries as well as his own field expeditions to remote corners of the world, Paul Wignall reveals what scientists are only now beginning to understand about the most prolonged period of environmental crisis in Earth's history. He describes how a series of unprecedented extinction events swept across the planet in a span of eighty million years, rapidly killing marine and terrestrial life on a

scale more devastating than the dinosaur extinctions that would come later. Wignall shows how these extinctions--some of which have only recently been discovered--all coincided with gigantic volcanic eruptions of flood basalt lavas that occurred when the world's landmasses were united into a single vast expanse. Unraveling one of the great enigmas of ancient Earth, this book also explains how the splitting apart of Pangea into the continents we know today ushered in a new age of vibrant and more resilient life on our planet.--Adapted from book jacket.

**Dinosaurs Rediscovered** - Michael J Benton 2020-06-02

In this fascinating and accessible overview, renowned paleontologist Michael J. Benton reveals how our understanding of dinosaurs is being transformed by recent fossil finds and new technology. Over the past twenty years, the study of dinosaurs has transformed into a true scientific discipline. New technologies have revealed

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secrets locked in prehistoric bones that no one could have previously predicted. We can now work out the color of dinosaurs, the force of their bite, their top speeds, and even how they cared for their young. Remarkable new fossil discoveries—giant sauropod dinosaur skeletons in Patagonia, dinosaurs with feathers in China, and a tiny dinosaur tail in Burmese amber—remain the lifeblood of modern paleobiology. Thanks to advances in technologies and methods, however, there has been a recent revolution in the scope of new information gleaned from such fossil finds. In *Dinosaurs Rediscovered*, leading paleontologist Michael J. Benton gathers together all the latest paleontological evidence, tracing the transformation of dinosaur study from its roots in antiquated natural history to an indisputably scientific field. Among other things, the book explores how dinosaur remains are found and excavated, and especially how paleontologists read the details of dinosaurs’

lives from their fossils—their colors, their growth, and even whether we will ever be able to bring them back to life.

Benton’s account shows that, though extinct, dinosaurs are still very much a part of our world.

**Rare Earth** - Peter D. Ward  
2007-05-08

What determines whether complex life will arise on a planet, or even any life at all? Questions such as these are investigated in this groundbreaking book. In doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe.

Everyone who has been thrilled by the recent discoveries of extrasolar planets and the indications of life on Mars and the Jovian moon Europa will be fascinated by *Rare Earth*, and its implications for those who look to the heavens for companionship.

*Dinosaurs Without Bones* -  
Anthony J. Martin 2021-07-13

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"Bubbles over with the joy of scientific discovery as he shares his natural enthusiasm for the blend of sleuthing and imagination."—Publishers Weekly, starred review What if we woke up one morning all of the dinosaur bones in the world were gone? How would we know these iconic animals had a 165-million year history on earth, and had adapted to all land-based environments from pole to pole? What clues would be left to discern not only their presence, but also to learn about their sex lives, raising of young, social lives, combat, and who ate who? What would it take for us to know how fast dinosaurs moved, whether they lived underground, climbed trees, or went for a swim? Welcome to the world of ichnology, the study of traces and trace fossils – such as tracks, trails, burrows, nests, toothmarks, and other vestiges of behavior – and how through these remarkable clues, we can explore and intuit the rich and complicated lives of dinosaurs. With a unique, detective-like approach, interpreting the

forensic clues of these long-extinct animals that leave a much richer legacy than bones, Martin brings the wild world of the Mesozoic to life for the 21st century reader.

**The Armored Dinosaurs** -

Kenneth Carpenter 2001

Brings together the latest studies by an international group of dinosaur palaeontologists and provides descriptions of the original specimens of *Hyaleosaurus* and *Stegosaurus*

**The Great Dying** - Kenneth J.

Hsu 1988

*T. Rex and the Crater of Doom*

- Walter Alvarez 2008

Sixty-five million years ago, a comet or asteroid larger than Mt. Everest slammed into the Earth, causing an explosion equivalent to the detonation of a hundred million hydrogen bombs. Vaporized impactor and debris from the impact site were blasted out through the atmosphere, falling back to Earth all around the globe. Terrible environmental disasters ensued, including a giant tsunami, continent-scale

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wildfires, darkness, and cold, followed by sweltering greenhouse heat. When conditions returned to normal, half the genera of plants and animals on Earth had perished. This horrific story is now widely accepted as the solution to a great scientific murder mystery: what caused the extinction of the dinosaurs? In *T. rex and the Crater of Doom*, the story of the scientific detective work that went into solving the mystery is told by geologist Walter Alvarez, one of the four Berkeley scientists who discovered the first evidence for the giant impact. It is a saga of high adventure in remote parts of the world, of patient data collection, of lonely intellectual struggle, of long periods of frustration ended by sudden breakthroughs, of intense public debate, of friendships made or lost, of the exhilaration of discovery, and of delight as a fascinating story unfolded. Controversial and widely attacked during the 1980s, the impact theory

received confirmation from the discovery of the giant impact crater it predicted, buried deep beneath younger strata at the north coast of the Yucatán Peninsula. The Chicxulub Crater was found by Mexican geologists in 1950 but remained almost unknown to scientists elsewhere until 1991, when it was recognized as the largest impact crater on this planet, dating precisely from the time of the great extinction sixty-five million years ago. Geology and paleontology, sciences that long held that all changes in Earth history have been calm and gradual, have now been forced to recognize the critical role played by rare but devastating catastrophes like the impact that killed the dinosaurs.

*The End of the Dinosaurs* - Charles Frankel 1999-09-23 Investigates the idea that the natural disaster many scientists suspect caused the extinction of the dinosaurs occurred near Puerto Chicxulub, Mexico, when an asteroid collided with Earth, releasing deadly amounts of

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energy.

Cataclysms - Michael R.

Rampino 2017-08-22

In 1980, the science world was stunned when a maverick team of researchers proposed that a massive meteor strike had wiped the dinosaurs and other fauna from the Earth 66 million years ago. Scientists found evidence for this theory in a “crater of doom” on the Yucatán Peninsula, showing that our planet had once been a target in a galactic shooting gallery. In *Cataclysms*, Michael R. Rampino builds on the latest findings from leading geoscientists to take “neocatastrophism” a step further, toward a richer understanding of the science behind major planetary upheavals and extinction events. Rampino recounts his conversion to the impact hypothesis, describing his visits to meteor-strike sites and his review of the existing geological record. The new geology he outlines explicitly rejects nineteenth-century “uniformitarianism,” which casts planetary change as

gradual and driven by processes we can see at work today. Rampino offers a cosmic context for Earth’s geologic evolution, in which cataclysms from above in the form of comet and asteroid impacts and from below in the form of huge outpourings of lava in flood-basalt eruptions have led to severe and even catastrophic changes to the Earth’s surface. This new geology sees Earth’s position in our solar system and galaxy as the keys to understanding our planet’s geology and history of life. Rampino concludes with a controversial consideration of dark matter’s potential as a triggering mechanism, exploring its role in heating Earth’s core and spurring massive volcanism throughout geologic time.

**The Mountains of Saint Francis: Discovering the Geologic Events That Shaped Our Earth** - Walter Alvarez 2008-12-17

One of the world's leading geologists takes readers into Italy's Apennine Mountain Range—the Mountains of Saint

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Francis—on a journey to discover the fascinating secrets of the Earth's deep history. Modern geologists, Walter Alvarez among them, showed in the last decades of the twentieth century that the history of our planet has witnessed events profoundly more dramatic than even the most spectacular chapters in human history. More violent than wars, more life altering than revolutions—understanding the geologic events that have shaped the Earth's surface is the quest and the passion of geologists. In the knowledgeable and graceful prose of Alvarez, general readers are led to explore the many mysteries that our planet guards. The author has chosen Italy as a microcosm in which to explore this amazing past for several reasons. First, it is the land where the earliest geologists learned how to read the history of the Earth, written in nature's rock archives. Second, it is where Alvarez and his Italian geological friends have

continued to decipher the rock record, uncovering more historical episodes from the Earth's past. And third, the lovely land of Italy is unusually rich in geological treasures and offers examples of the key processes that have created the landscapes of the entire world. The Mountains of Saint Francis begins in Rome. We discover that the landscape of Rome was built by violent volcanic eruptions in the very recent past, almost certainly witnessed by our human ancestors. Next we travel to Siena and come face to face with a fundamental discovery of the geologists—that much of the dry land that we currently inhabit was once underwater, beneath ancient seas or oceans. Then we stop in the small medieval city of Gubbio and contemplate the amazing secret that the limestone rocks kept hidden for 65 million years—that a huge asteroid smashed into the Earth, disrupting the environment so severely that the dinosaurs, and perhaps half of the other forms of life inhabiting the

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Earth at the time, disappeared forever, opening the way for the rise of the mammals and eventually of humans. The impact theory that came from those Italian limestones at Gubbio was one of the great geological discoveries of the twentieth century. Just as important to the field of geology was the theory of plate tectonics—the understanding that the outer layer of the Earth is divided into crustal plates that move around, sometimes carrying continents into collisions with one another, like the great collision between Italy and Europe that built the Alps. And yet, to explain the Mountains of Saint Francis requires something more than a collision between continents. These are mountains that are still jealously guarding the secret of their past, and in this book we go along with the geological detectives as they try to uncover that secret. It is a journey that has seen the land of Italy lifted out of the sea, squashed and folded, torn apart, left high and dry when

the Mediterranean Sea evaporated away, and then flooded when the Atlantic waters poured back in. The story of the Earth's history is fascinating in its own right, but with Alvarez as the tour guide, the journey takes on a human dimension, full of stories about the landscape and history of Italy and about the great geologists who uncovered the deep past of this land. It is a journey recounted in warm tones and subtle colors, reflecting the transcendent beauty of Italy itself.

**The Science of Jurassic World** - Mark Brake  
2021-06-15

A tale of some of the most amazing creatures ever to grace this tiny planet—unearth how the science fiction of the Jurassic World franchise inspired the evolution of dinosaur science. It all began in 1993. Jurassic Park was a movie landmark in the development of computer-generated imagery and animatronic visual effects. Jurassic Park became the highest-grossing movie of that

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year, and the highest-grossing film ever at the time, a record held until the 1997 release of Titanic. The field of dinosaur science has blossomed by leaps and bounds and branched out in recent years, in no small part to this iconic movie series. In *The Science of Jurassic World*, we experience the amazing story of the birth of the dinosaurs, how they evolved to world dominance, how some became gargantuan in size, how others grew wings and flew, and how the rest of them met an untimely end. Chapters include: How did Jurassic Park transform dinosaur science? Was Dr. Alan Grant's job a walk in the park? What's with the giant dinosaur poop? When will we clone dinosaurs? And so much more! Discover how some of cinema's most incredible creations do justice to the jaw-dropping evolution of these fantastic creatures.

### **T. rex and the Crater of Doom** - Walter Alvarez

2015-09-15

Sixty-five million years ago, a comet or asteroid larger than

Mount Everest slammed into the Earth, inducing an explosion equivalent to the detonation of a hundred million hydrogen bombs. Vaporized detritus blasted through the atmosphere upon impact, falling back to Earth around the globe. Disastrous environmental consequences ensued: a giant tsunami, continent-scale wildfires, darkness, and cold, followed by sweltering greenhouse heat. When conditions returned to normal, half the plant and animal genera on Earth had perished. This horrific chain of events is now widely accepted as the solution to a great scientific mystery: what caused the extinction of the dinosaurs? Walter Alvarez, one of the Berkeley scientists who discovered evidence of the impact, tells the story behind the development of the initially controversial theory. It is a saga of high adventure in remote locations, of arduous data collection and intellectual struggle, of long periods of frustration ended by sudden breakthroughs, of friendships

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made and lost, and of the exhilaration of discovery that forever altered our understanding of Earth's geological history.

[A Most Improbable Journey: A Big History of Our Planet and Ourselves](#) - Walter Alvarez  
2016-11-15

"A thrilling synthesis from a brilliant scientist who discovered one of the most important chapters in our history." —Sean B. Carroll Big History, the field that integrates traditional historical scholarship with scientific insights to study the full sweep of our universe, has so far been the domain of historians.

Famed geologist Walter Alvarez—best known for the "Impact Theory" explaining dinosaur extinction—has instead championed a science-first approach to Big History. Here he wields his unique expertise to give us a new appreciation for the incredible occurrences—from the Big Bang to the formation of supercontinents, the dawn of the Bronze Age, and beyond—that have led to our

improbable place in the universe.

[End of the Megafauna: The Fate of the World's Hugest, Fiercest, and Strangest Animals](#) - Ross D E MacPhee  
2018-11-13

The fascinating lives and puzzling demise of some of the largest animals on earth. Until a few thousand years ago, creatures that could have been from a sci-fi thriller—including gorilla-sized lemurs, 500-pound birds, and crocodiles that weighed a ton or more—roamed the earth. These great beasts, or "megafauna," lived on every habitable continent and on many islands. With a handful of exceptions, all are now gone. What caused the disappearance of these prehistoric behemoths? No one event can be pinpointed as a specific cause, but several factors may have played a role. Paleomammalogist Ross D. E. MacPhee explores them all, examining the leading extinction theories, weighing the evidence, and presenting his own conclusions. He shows how theories of human

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overhunting and catastrophic climate change fail to account for critical features of these extinctions, and how new thinking is needed to elucidate these mysterious losses. Along the way, we learn how time is determined in earth history; how DNA is used to explain the genomics and phylogenetic history of megafauna—and how synthetic biology and genetic engineering may be able to reintroduce these giants of the past. Until then, gorgeous four-color illustrations by Peter Schouten re-create these megabeasts here in vivid detail.

**T. Rex and the Crater of Doom** - Walter Alvarez 1997

One of the scientists who discovered the first evidence of a giant impact relates the story of the scientific investigation that revealed the cause of the great extinction sixty-five million years ago

**Extinction** - Douglas H. Erwin 2015-03-22

Some 250 million years ago, the earth suffered the greatest biological crisis in its history. Around 95 percent of all living species died out—a global

catastrophe far greater than the dinosaurs' demise 185 million years later. How this happened remains a mystery. But there are many competing theories. Some blame huge volcanic eruptions that covered an area as large as the continental United States; others argue for sudden changes in ocean levels and chemistry, including burps of methane gas; and still others cite the impact of an extraterrestrial object, similar to what caused the dinosaurs' extinction. Extinction is a paleontological mystery story. Here, the world's foremost authority on the subject provides a fascinating overview of the evidence for and against a whole host of hypotheses concerning this cataclysmic event that unfolded at the end of the Permian. After setting the scene, Erwin introduces the suite of possible perpetrators and the types of evidence paleontologists seek. He then unveils the actual evidence—moving from China, where much of the best evidence is found; to a look at

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extinction in the oceans; to the extraordinary fossil animals of the Karoo Desert of South Africa. Erwin reviews the evidence for each of the hypotheses before presenting his own view of what happened. Although full recovery took tens of millions of years, this most massive of mass extinctions was a powerful creative force, setting the stage for the development of the world as we know it today. In a new preface, Douglas Erwin assesses developments in the field since the book's initial publication.

Dougal Dixon's Dinosaurs -  
Dougal Dixon 2007

The life and times of dinosaurs, from their evolution to the present-day discovery of their fossils.

*Cosmic Impact* - Andrew May  
2019-02-07

As end-of-the-world scenarios go, an apocalyptic collision with an asteroid or comet is the new kid on the block, gaining respectability only in the last decade of the 20th century with the realisation that the dinosaurs had been wiped out

by just such an impact. Now the science community is making up for lost time, with worldwide efforts to track the thousands of potentially hazardous near-Earth objects, and plans for high-tech hardware that could deflect an incoming object from a collision course - a procedure depicted, with little regard for scientific accuracy, in several Hollywood movies.

Astrophysicist and science writer Andrew May disentangles fact from fiction in this fast-moving and entertaining account, covering the nature and history of comets and asteroids, the reason why some orbits are more hazardous than others, the devastating local and global effects that an impact event would produce, and - more optimistically - the way future space missions could avert a catastrophe.

**The Great Dinosaur Extinction Controversy** -  
Research Professor and  
Lecturer Thayer School of  
Engineering Charles Officer  
1996-06-30

Refutes the commonly accepted theory explaining the extinction of the dinosaurs and offers an alternative explanation for the mass extinctions that occurred at the end of the Cretaceous period

*Nietzsche's Mirror* - Linda L. Williams 2002-07-15

*Nietzsche's Mirror* introduces the reader to one of the most central and pervasive themes in Friedrich Nietzsche's works—will to power. The book traces Nietzsche's use of the terms 'power,' 'will,' and 'will to power' as they are presented in both the works he authorized for publication and his literary remains, called the Nachlass. The author demonstrates that will to power as it is presented in the Nachlass differs from the way it is presented in the works Nietzsche authorized for publication before his collapse in 1889. Then it is argued that the problems that the Nachlass poses for scholars suggests that the Nachlass material should not be held in the same regard as the works Nietzsche authorized for publication.

Because of the discrepancy between the published and unpublished writings, will to power should not be interpreted as a metaphysical principle operating behind the world, since the metaphysical-sounding passages are located in the Nachlass, but rather as a tool for interpreting relations, especially human relations, within the world. The final chapter examines Nietzsche's unique style of writing, which the author calls 'mirror writing.' Mirror writing is a technique Nietzsche deliberately employs in order to have such visionary themes as will to power, master morality, and eternal recurrence reflect the reader's values back to himself. Since this book is meant to be an introduction to will to power, at the end of each chapter is a list of additional books, so that the reader can delve further into the themes presented in the chapter, such as Nietzsche's biography, ethics, writings on truth, and eternal recurrence.

**Snowball Earth** - Gabrielle Walker 2009-08-24

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Did the Earth once undergo a super ice age, one that froze the entire planet? A global adventure story and a fascinating account of scientist Paul Hoffman's quest to prove his maverick 'Snowball Earth' theory, this is science writing at its most gripping. In SNOWBALL EARTH, Gabrielle Walker takes us on a thrilling natural history expedition in search of supporting evidence for the audacious theory which argues that the Earth experienced a climatic cataclysm 600 million years ago that froze the entire planet from the poles to the equator. Because the global snowball happened so long ago the ice has now long gone - but it left its traces in rocks around the world and in order to see the evidence, Walker visited such places as Australia, Namibia, South Africa and Death Valley, USA. Part adventure story and part travel book, it's a tale of the ultimate human endeavour to understand our origins.

T. rex and the Crater of Doom -

Walter Alvarez 2013-06-25

Sixty-five million years ago, a

comet or asteroid larger than Mount Everest slammed into the Earth, inducing an explosion equivalent to the detonation of a hundred million hydrogen bombs. Vaporized detritus blasted through the atmosphere upon impact, falling back to Earth around the globe. Disastrous environmental consequences ensued: a giant tsunami, continent-scale wildfires, darkness, and cold, followed by sweltering greenhouse heat. When conditions returned to normal, half the plant and animal genera on Earth had perished. This horrific chain of events is now widely accepted as the solution to a great scientific mystery: what caused the extinction of the dinosaurs? Walter Alvarez, one of the Berkeley scientists who discovered evidence of the impact, tells the story behind the development of the initially controversial theory. It is a saga of high adventure in remote locations, of arduous data collection and intellectual struggle, of long periods of frustration ended by sudden

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breakthroughs, of friendships made and lost, and of the exhilaration of discovery that forever altered our understanding of Earth's geological history.

Dinosaur Facts and Figures -

Rubén Molina-Pérez

2020-09-29

An illustrated record book of sauropod facts and figures—the hugest, the oldest, the most intelligent, and more. The sauropod dinosaurs roamed the planet for millions of years, with creatures ranging from the smallest of the sauropods, Magyarosaurus, to the huge Argentinosaurus. This illustrated book of records is an essential compendium of sauropod facts and figures—from the biggest and the oldest to the smallest and the rarest. It covers every known species and features more than 2,000 diagrams and technical drawings along with hundreds of full-color reconstructions of specimens. The book is divided into sections that put numerous amazing sauropod facts at your fingertips. "Comparing

Species" is organized by taxonomic group and gives comparisons of the size of species, how long ago they lived, and when they were discovered. "Mesozoic Calendar" includes page spreads showing the positions of the continents at different geological time periods and reconstructions of creatures from each period. "Prehistoric Puzzles" compares bones and teeth while "Sauropod Life" presents user-friendly graphics to answer questions like what did they eat and which was the most intelligent. There are sections that chart sauropod distribution on the contemporary world map, provide illustrated listings of footprints, compile the physical specifications of all known sauropods, and more. The essential illustrated record book for anyone interested in dinosaurs Features a wealth of comparative records Includes more than 2,000 diagrams and technical drawings and hundreds of full-color reconstructions Covers all known sauropodomorph

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species Provides listings of footprints, biometric specifications, and scholarly and popular references

Dinosaur Explorer - Dougal Dixon 2014-06-02

Providing fun illustrations and fascinating facts, Dinosaur Explorer provides the perfect introduction to prehistoric creatures. The clear and simple sentences encourage reading skills and ensure that even reluctant readers finish the whole book. Each page of the Let's Find Out series is bursting with colourful photographs and exciting images that perfectly illustrate and reinforce the text. The Let's Find Out series includes: Bugs and Slugs:

978-1-78171-545-1 Dinosaur Explorer: 978-1-78171-546-8

Tadpole to Frog:

978-1-78171-547-5

Camouflage:

978-1-78171-548-2

**The Behavior of the Earth** -

Claude J. Allègre 1988

Discusses the theory of continental drift, describes its importance to modern geology, and looks at mountain building

and the structure of the earth's crust

**Dinosaur Facts and Figures** -

Rubén Molina-Pérez

2019-06-25

An illustrated record book of theropod facts and figures--from the biggest to the fastest to the smartest. This compendium features more than 3,000 records, covers some 750 theropod species, and includes a wealth of illustrations ranging from diagrams and technical drawings to full-color reconstructions of specimens.

**Hunting Dinosaurs** - Louie

Psihoyos 1995-10-01

An anecdotal journey into the world of dinosaur paleontology chronicles the international odyssey of a renowned photojournalist who traveled the world in search of the great fossil hunters and their discoveries

Chicxulub: The Impact and

Tsunami - David Shonting

2016-09-09

This book tells the story of the catastrophic impact of the giant 10 Km asteroid Chicxulub into the ancient Gulf of Mexico

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65.5 million years ago. The book begins with a discussion of the nature of asteroids and the likelihood of future Earth-impacts. The story then turns to the discovery of a global sediment layer attributed to the fallout from the impact and a piecing together of the evidence that revealed a monster crater, buried under the Gulf. Reviewed is the myriad of geological and fossil evidence that suggested the disastrous sequence of events occurring when a "nuclear-like" explosion ripped through the sea, Earth, and atmosphere, thus forming the mega-crater and tsunamis. The aftermath of the Chicxulub's event initiated decades and more of major global climate changes including a "Nuclear Winter" of freezing darkness and blistering greenhouse warming. A chapter is dedicated to the science of tsunamis and their model generation, including a portrayal of the globally rampaging Chicxulub waves. The asteroid's global devastation killed off some 70%

of animal and plant life including the dinosaurs. The study of an ancient Cambrian fossil bed suggests how "roll of the dice" events can affect the future evolution of life on Earth. We see how Chicxulub's apparent destruction of the dinosaurs, followed by their replacement with small mammals, altered forever the progress of human evolution. This book presents a fascinating glimpse through the lens of the natural sciences - the geology, climatology, and oceanography, of the effects of an enormous astronomical event.

*The Complete Dinosaur* - M. K. Brett-Surman 2012

Copiously illustrated and accessible to all readers from the enthusiastic amateur to the most learned professional paleontologist, *The Complete Dinosaur* is a feast for serious dinosaur lovers everywhere.

**The Story of Western Science: From the Writings of Aristotle to the Big Bang Theory** - Susan Wise Bauer  
2015-05-11

A riveting road map to the

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development of modern scientific thought. In the tradition of her perennial bestseller *The Well-Educated Mind*, Susan Wise Bauer delivers an accessible, entertaining, and illuminating springboard into the scientific education you never had. Far too often, public discussion of science is carried out by journalists, voters, and politicians who have received their science secondhand. *The Story of Western Science* shows us the joy and importance of reading groundbreaking science writing for ourselves and guides us back to the masterpieces that have changed the way we think about our world, our cosmos, and ourselves. Able to be referenced individually, or read together as the narrative of Western scientific development, the book's twenty-eight succinct chapters lead readers from the first science texts by Hippocrates, Plato, and Aristotle through twentieth-century classics in biology, physics, and

cosmology. *The Story of Western Science* illuminates everything from mankind's earliest inquiries to the butterfly effect, from the birth of the scientific method to the rise of earth science and the flowering of modern biology. Each chapter recommends one or more classic books and provides entertaining accounts of crucial contributions to science, vivid sketches of the scientist-writers, and clear explanations of the mechanics underlying each concept. *The Story of Western Science* reveals science to be a dramatic undertaking practiced by some of history's most memorable characters. It reminds us that scientific inquiry is a human pursuit—an essential, often deeply personal, sometimes flawed, frequently brilliant way of understanding the world. *The Story of Western Science* is an "entertaining and unique synthesis" (*Times Higher Education*), a "fluidly written" narrative that "celebrates the inexorable force of human curiosity" (*Wall Street Journal*),

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and a "bright, informative resource for readers seeking to understand science through the eyes of the men and women who shaped its history" (Kirkus). Previously published as *The Story of Science*.

*Archosauria, a New Look at the Old Dinosaur* - John C.

McLoughlin 1979

Attempts to clear away generally held myths and misconceptions surrounding the class Archosauria and the subclass Dinosauria, using line drawings to illustrate these swift, warm-blooded, bipedal animals

**Paleontology** - David Bainbridge 2022-02-08

An illustrated look at the art and science of paleontology from its origins to today. Humans have been stumbling upon the petrified remains of ancient animals since prehistoric times, leading to tales of giant dogs, deadly dragons, tree gods, sea serpents, and all manner of strange and marvelous creatures. In this richly illustrated book, David Bainbridge recounts how

legends like these gradually gave rise to the modern science of paleontology, and how this pioneering discipline has reshaped our view of the natural world. Bainbridge takes readers from ancient Greece to the eighteenth century, when paleontology began to coalesce into the scientific field we know today, and discusses how contemporary paleontologists use cutting-edge technologies to flesh out the discoveries of past and present. He brings to life the stories and people behind some of the greatest fossil finds of all time, and explains how paleontology has long straddled the spheres of science and art. Bainbridge also looks to the future of the discipline, discussing how the rapid recovery of DNA and other genetic material from the fossil record promises to revolutionize our understanding of the origins and evolution of ancient life. This panoramic book brings together stunning illustrations ranging from early sketches and engravings to eye-popping paleoart and high-tech

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computer reconstructions.

*The God Con* - Lee Moller

2017-06-24

The crucifix is in! You can fool most of the people most of the time. In *The God Con*, Lee Moller, a life-long atheist and skeptic, looks at organized religion through the lens of the con. Organized religion has been selling an invisible product, that it never has to deliver, for thousands of years. It has given us bigotry, rampant pedophilia, terrorism, and bloodshed beyond imagining. And its acolytes have, in turn, given organized religion power over their bank accounts, their reproduction, and their very “souls”.

### **In the Presence of**

**Dinosaurs** - John Colagrande  
2000

Explores life in the Mesozoic era through text and illustrations that speculate on the daily life and behavior of dinosaurs and other creatures who lived in the various habitats of that time period.

*Dark Matter and the Dinosaurs*

- Lisa Randall 2015-10-27

In this brilliant exploration of

our cosmic environment, the renowned particle physicist and New York Times bestselling author of *Warped Passages* and *Knocking on Heaven’s Door* uses her research into dark matter to illuminate the startling connections between the furthest reaches of space and life here on Earth. Sixty-six million years ago, an object the size of a city descended from space to crash into Earth, creating a devastating cataclysm that killed off the dinosaurs, along with three-quarters of the other species on the planet. What was its origin? In *Dark Matter and the Dinosaurs*, Lisa Randall proposes it was a comet that was dislodged from its orbit as the Solar System passed through a disk of dark matter embedded in the Milky Way. In a sense, it might have been dark matter that killed the dinosaurs. Working through the background and consequences of this proposal, Randall shares with us the latest findings—established and speculative—regarding the

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nature and role of dark matter and the origin of the Universe, our galaxy, our Solar System, and life, along with the process by which scientists explore new concepts. In *Dark Matter and the Dinosaurs*, Randall tells a breathtaking story that weaves together the cosmos' history and our own, illuminating the deep relationships that are critical to our world and the astonishing beauty inherent in the most familiar things.

### **The Tyrannosaur Chronicles**

- David Hone 2016-04-21

'Gripping and wonderfully informative' Tom Holland, *New Statesman* Adored by children and adults alike,

Tyrannosaurus is the most famous dinosaur in the world, one that pops up again and again in pop culture, often battling other beasts such as King Kong, Triceratops or velociraptors in *Jurassic Park*. But despite the hype, Tyrannosaurus and the other tyrannosaurs are fascinating animals in their own right, and are among the best-studied of all dinosaurs. Tyrannosaurs started small, but over the

course of 100 million years evolved into the giant carnivorous bone-crushers that continue to inspire awe in palaeontologists, screenplay writers, sci-fi novelists and the general public alike.

Tyrannosaurus itself was truly impressive; it topped six tons, was more than 12m (40 feet) long, and had the largest head and most powerful bite of any land animal in history. The *Tyrannosaur Chronicles* tracks the rise of these dinosaurs, and presents the latest research into their biology, showing off more than just their impressive statistics - tyrannosaurs had feathers and fought and even ate each other. This book presents the science behind this research; it tells the story of the group through their anatomy, ecology and behaviour, exploring how they came to be the dominant terrestrial predators of the Mesozoic and, in more recent times, one of the great icons of biology.

*King of the Dinosaur Hunters: The Life of John Bell Hatcher and the Discoveries that*

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*Shaped Paleontology* - Lowell Dingus 2018-12-04

The story of the extraordinary adventures behind the man who has discovered some of the amazing wonders of natural history. Every year millions of museum visitors marvel at the skeletons of dinosaurs and other prehistoric creatures discovered by John Bell Hatcher. The life of the “King of Collectors” is every bit as fascinating as the mighty bones and fossils he unearthed. Hatcher helped discover and mount much of the Carnegie Museum's world famous, 150 million-year-old skeleton of *Diplodocus*, a slender-necked, long-tailed, plant-eater whose skeleton has captivated our collective imaginations for more than a century. But that wasn't all Hatcher discovered. During a now legendary collecting campaign in Wyoming between 1889 and 1892, Hatcher discovered a 66 million-year-old horned dinosaur, *Torosaurus*, as well

as the first scientifically significant set of skeletons from its evolutionary cousin, *Triceratops*. Refusing to restrict his talents to enormous dinosaurs, he also discovered the first significant sample of mammal teeth from our relatives that lived 66 million years ago. The teeth might have been minute, but this extraordinary discovery filled a key gap in humanity's own evolutionary history. Hatcher's discoveries form the bases of some of the most beloved and well-known collections and institutions in the world—Yale, The Peabody Museum, Princeton University, the Carnegie Museum, and more. Nearly one hundred and twenty-five years after Hatcher's monumental “hunts” ended, acclaimed paleontologist Lowell Dingus invites us to revisit Hatcher's captivating expeditions and marvel at this real-life Indiana Jones and the vital role he played in our understanding of paleontology.