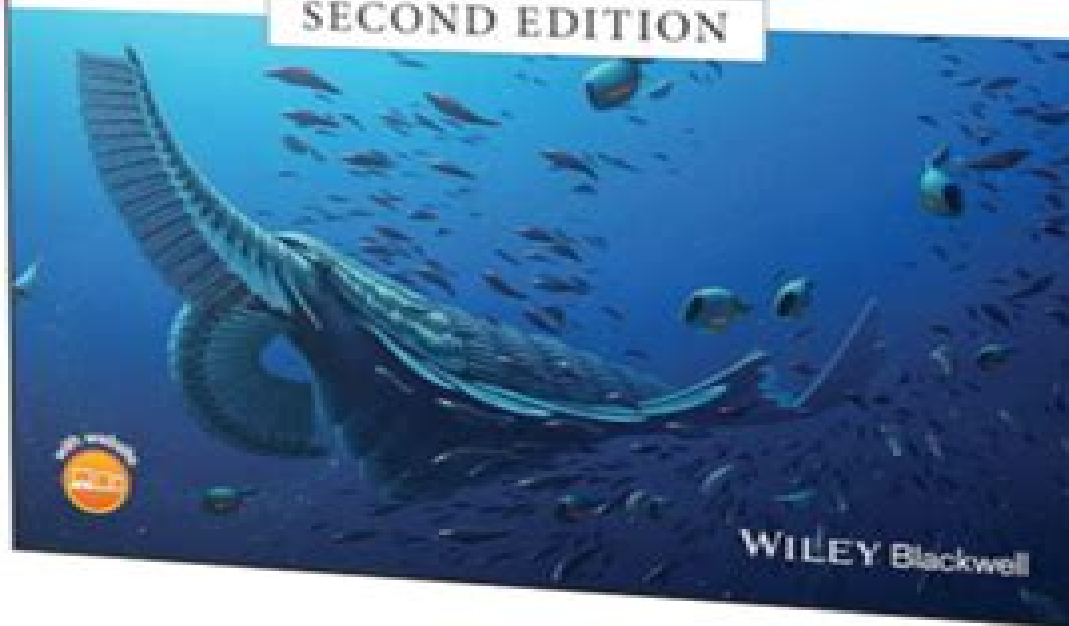


Michael J. Benton · David A. T. Harper

Introduction to
Paleobiology and the
Fossil Record

SECOND EDITION



WILEY Blackwell

Introduction To Paleobiology And The Fossil Record

**Patricia Kelley, Michal
Kowalewski, Thor A. Hansen**



Introduction To Paleobiology And The Fossil Record:

Introduction to Paleobiology and the Fossil Record Michael J. Benton, David A. T. Harper, 2013-04-25 This book presents a comprehensive overview of the science of the history of life Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the book introduces the latest techniques from multivariate investigations of biogeography and biostratigraphy to engineering analysis of dinosaur skulls and from homeobox genes to cladistics All the well known fossil groups are included including microfossils and invertebrates but an important feature is the thorough coverage of plants vertebrates and trace fossils together with discussion of the origins of both life and the metazoans All key related subjects are introduced such as systematics ecology evolution and development stratigraphy and their roles in understanding where life came from and how it evolved and diversified Unique features of the book are the numerous case studies from current research that lead students to the primary literature analytical and mathematical explanations and tools together with associated problem sets and practical schedules for instructors and students any serious student of geology who does not pick this book off the shelf will be putting themselves at a huge disadvantage The material may be complex but the text is extremely accessible and well organized and the book ought to be essential reading for palaeontologists at undergraduate postgraduate and more advanced levels both in Britain as well as in North America Falcon Lang H Proc Geol Assoc 2010 this is an excellent introduction to palaeontology in general It is well structured accessibly written and pleasantly informative I would recommend this as a standard reference text to all my students without hesitation David Norman Geol Mag 2010 Companion website This book includes a companion website at www.blackwellpublishing.com/paleobiology The website includes An ongoing database of additional Practical s prepared by the authors Figures from the text for downloading Useful links for each chapter Updates from the authors [Introduction to Paleobiology and the Fossil Record](#) Michael J.

Benton, David A. T. Harper, 2020-04-14 This book presents a comprehensive overview of the science of the history of life Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the book introduces the latest techniques from multivariate investigations of biogeography and biostratigraphy to engineering analysis of dinosaur skulls and from homeobox genes to cladistics All the well known fossil groups are included including microfossils and invertebrates but an important feature is the thorough coverage of plants vertebrates and trace fossils together with discussion of the origins of both life and the metazoans All key related subjects are introduced such as systematics ecology evolution and development stratigraphy and their roles in understanding where life came from and how it evolved and diversified Unique features of the book are the numerous case studies from current research that lead students to the primary literature analytical and mathematical explanations and tools together with associated problem sets and practical schedules for instructors and students New to this edition The text and figures have been updated throughout to reflect current opinion on all aspects New case studies illustrate the chapters drawn from a broad distribution internationally Chapters on

Macroevolution Form and Function Mass extinctions Origin of Life and Origin of Metazoans have been entirely rewritten to reflect substantial advances in these topics There is a new focus on careers in paleobiology Bringing Fossils to Life Donald R. Prothero,1998 Would you like to go beyond a focus on taxonomy and anatomy of major phyla of fossil invertebrates and include some of the exciting ideas of paleobiology This book by noted author Donald R Prothero is the first to combine paleobiology with paleontology topics Written in a manner that will not intimidate this is an accessible text for students with limited backgrounds in geology or biology Current ideas from modern biology ecology population genetics and many other concepts will be applied to the study of the fossil record **Comparing the Geological and Fossil Records** Alistair McGowan,Andrew B. Smith,2011 The past decade has witnessed a major revival in attempts to separate biodiversity signals from biases imposed by sampling and the architecture of the rock record How large a problem this poses to our understanding of biodiversity patterns remains debatable and new approaches are being developed to investigate this question Here palaeobiologists with widely differing approaches and interests explore the problems of extracting reliable information on biodiversity change from an imperfect geological record Topics covered range from the application of information theoretic approaches that identify directional causal relationships to an in depth study of how geological biases could influence our understanding of dinosaur evolution *Applications of Palaeontology* Robert Wynn Jones,2011-08-18 Palaeontology the scientific study of fossils has developed from a descriptive science to an analytical science used to interpret relationships between Earth and life history This book provides a comprehensive and thematic treatment of applied palaeontology covering the use of fossils in the ordering of rocks in time and in space in biostratigraphy palaeobiology and sequence stratigraphy Robert Wynn Jones presents a practical workflow for applied palaeontology including sample acquisition preparation and analysis and interpretation and integration He then presents numerous case studies that demonstrate the applicability and value of the subject to areas such as petroleum mineral and coal exploration and exploitation engineering geology and environmental science Specialist applications outside of the geosciences including archaeology forensic science medical palynology entomopalynology and melissopalynology are also addressed Abundantly illustrated and referenced *Applications of Palaeontology* provides a user friendly reference for academic researchers and professionals across a range of disciplines and industry settings Encyclopedia of Environmental Change John A Matthews,2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo

ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

Encyclopedia of Geology ,2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

Vertebrate Palaeontology Michael J. Benton,2014-08-04 Vertebrate palaeontology is a lively field with new discoveries reported every week and not only dinosaurs This new edition reflects the international scope of vertebrate palaeontology with a special focus on exciting new finds from China A key aim is to explain the science Gone are the days of guesswork Young researchers use impressive new numerical and imaging methods to explore the tree of life macroevolution global change and functional morphology The fourth edition is completely revised The cladistic framework is strengthened and new functional and developmental spreads are added Study aids include key questions research to be done and recommendations of further reading and web sites The book is designed for palaeontology courses in biology and geology departments It is also aimed at enthusiasts who want to experience the flavour of how the research is done The book is strongly phylogenetic and this makes it a source of current data on vertebrate evolution

The Unity of Science Irwin Shapiro,2023-01-01 A journey guided by science that explores the universe the earth and the story of life For Irwin Shapiro science starts with questions This book provides a broad and entertaining survey of major scientific discoveries that have changed our views of nature and in turn spawned further questions Shapiro an

award winning scientist and beloved teacher separates his inquiry into three parts looking up at the universe looking down at the earth and its fossils and looking in at the story of life His framework encourages readers to view science as a detective story to observe and question nature and natural phenomena and to base all conclusions on scientific evidence With his knowledgeable yet conversational approach Shapiro offers an enjoyable way for the curious to learn about the foundations of a range of scientific topics the motions of bodies in the cosmos the history and structure of the earth the evolution of organisms and the search for extraterrestrial life and intelligence

The Vent and Seep Biota Steffen Kiel, 2010-09-21
Oases of life around black smokers and hydrocarbon seeps in the deep sea were among the most surprising scientific discoveries of the past three decades These ecosystems are dominated by animals having symbiotic relationships with chemoautotrophic bacteria Their study developed into an international interdisciplinary venture where scientists develop new technologies to work in some of the most extreme places on Earth This book highlights discoveries developments and advances made during the past 10 years including remarkable cases of host symbiont coevolution worms living on frozen methane and a fossil record providing insights into the dynamic history of these ecosystems since the Paleozoic

Saving a Million Species Lee Hannah, 2012-06-22
The research paper Extinction Risk from Climate Change published in the journal Nature in January 2004 created front page headlines around the world The notion that climate change could drive more than a million species to extinction captured both the popular imagination and the attention of policy makers and provoked an unprecedented round of scientific critique Saving a Million Species reconsiders the central question of that paper How many species may perish as a result of climate change and associated threats Leaders from a range of disciplines synthesize the literature refine the original estimates and elaborate the conservation and policy implications The book examines the initial extinction risk estimates of the original paper subsequent critiques and the media and policy impact of this unique study presents evidence of extinctions from climate change from different time frames in the past explores extinctions documented in the contemporary record sets forth new risk estimates for future climate change considers the conservation and policy implications of the estimates Saving a Million Species offers a clear explanation of the science behind the headline grabbing estimates for conservationists researchers teachers students and policy makers It is a critical resource for helping those working to conserve biodiversity take on the rapidly advancing and evolving global stressor of climate change the most important issue in conservation biology today and the one for which we are least prepared

Bringing Fossils To Life: An Introduction To Paleobiology Donald R. Prothero, 2004
This is the first text to combine both paleontology and paleobiology Traditional textbooks treat these separately despite the recent trend to combine them in teaching It bridges the gap between purely theoretical paleobiology and purely descriptive invertebrate paleontology books The text is targeted at undergraduate geology and biology majors with the emphasis on organisms rather than dead objects to be described and catalogued Current ideas from modern biology ecology population genetics and many other concepts will be applied to the study of the fossil

record The Web of Geological Sciences Marion Eugene Bickford, 2013 This volume covers many of the important advances in the geological sciences from 1963 to 2013 These advances include understanding plate tectonics exploration of the Moon and Mars development of new computing and analytical technologies understanding of the role of microbiology in geologic processes and many others Provided by publisher

Species and Speciation in the Fossil Record Warren D. Allmon, Margaret M. Yacobucci, 2016-10-05 Although the species is one of the fundamental units of biological classification there is remarkably little consensus among biologists about what defines a species even within distinct sub disciplines The literature of paleobiology in particular is littered with qualifiers and cautions about applying the term to the fossil record or equating such species with those recognized among living organisms In *Species and Speciation in the Fossil Record* experts in the field examine how they conceive of species of fossil animals and consider the implications these different approaches have for thinking about species in the context of macroevolution After outlining views of the Modern Synthesis of evolutionary disciplines and detailing the development within paleobiology of quantitative methods for documenting and analyzing variation within fossil assemblages contributors explore the challenges of recognizing and defining species from fossil specimens and offer potential solutions Addressing both the tempo and mode of speciation over time they show how with careful interpretation and a clear species concept fossil species may be sufficiently robust for meaningful paleobiological analyses Indeed they demonstrate that the species concept if more refined could unearth a wealth of information about the interplay between species origins and extinctions between local and global climate change and greatly deepen our understanding of the evolution of life

The Paleobiological Revolution David Sepkoski, Michael Ruse, 2015-03-04 The *Paleobiological Revolution* chronicles the incredible ascendance of the once maligned science of paleontology to the vanguard of a field With the establishment of the modern synthesis in the 1940s and the pioneering work of George Gaylord Simpson Ernst Mayr and Theodosius Dobzhansky as well as the subsequent efforts of Stephen Jay Gould David Raup and James Valentine paleontology became embedded in biology and emerged as paleobiology a first rate discipline central to evolutionary studies Pairing contributions from some of the leading actors of the transformation with overviews from historians and philosophers of science the essays here capture the excitement of the seismic changes in the discipline In so doing David Sepkoski and Michael Ruse harness the energy of the past to call for further study of the conceptual development of modern paleobiology

EVOLUTION Michael Ruse, Joseph Travis, 2009-01-01 Spanning evolutionary science from its inception to its latest findings from discoveries and data to philosophy and history this book is the most complete authoritative and inviting one volume introduction to evolutionary biology available Clear informative and comprehensive in scope *Evolution* opens with a series of major essays dealing with the history and philosophy of evolutionary biology with major empirical and theoretical questions in the science from speciation to adaptation from paleontology to evolutionary development evo devo and concluding with essays on the social and political significance of evolutionary biology

today A second encyclopedic section travels the spectrum of topics in evolution with concise informative and accessible entries on individuals from Aristotle and Linnaeus to Louis Leakey and Jean Lamarck from T H Huxley and E O Wilson to Joseph Felsenstein and Motoo Kimura and on subjects from altruism and amphibians to evolutionary psychology and Piltown Man to the Scopes trial and social Darwinism Readers will find the latest word on the history and philosophy of evolution the nuances of the science itself and the intricate interplay among evolutionary study religion philosophy and society Appearing at the beginning of the Darwin Year of 2009 the 200th anniversary of the birth of Charles Darwin and the 150th anniversary of the publication of the Origin of Species this volume is a fitting tribute to the science Darwin set in motion

Predator-Prey Interactions in the Fossil Record Patricia Kelley, Michal Kowalewski, Thor A. Hansen, 2003-01-31 From the Foreword Predator prey interactions are among the most significant of all organism organism interactions It will only be by compiling and evaluating data on predator prey relations as they are recorded in the fossil record that we can hope to tease apart their role in the tangled web of evolutionary interaction over time This volume compiled by a group of expert specialists on the evidence of predator prey interactions in the fossil record is a pioneering effort to collate the information now accumulating in this important field It will be a standard reference on which future study of one of the central dynamics of ecology as seen in the fossil record will be built Richard K Bambach Professor Emeritus Virginia Tech Associate of the Botanical Museum Harvard University

Evolution Donald R. Prothero, 2017-08-22 Donald R Prothero s Evolution is an entertaining and rigorous history of the transitional forms and series found in the fossil record Its engaging narrative of scientific discovery and well grounded analysis has led to the book s widespread adoption in courses that teach the nature and value of fossil evidence for evolution Evolution tackles systematics and cladistics rock dating neo Darwinism and macroevolution It includes extensive coverage of the primordial soup invertebrate transitions the development of the backbone the reign of the dinosaurs and the transformation from early hominid to modern human The book also details the many alleged missing links in the fossil record including some of the most recent discoveries that flesh out the fossil timeline and the evolutionary process In this second edition Prothero describes new transitional fossils from various periods vividly depicting such bizarre creatures as the Odontochelys or the turtle on the half shell fossil snakes with legs and the Frogamander a new example of amphibian transition Prothero s discussion of intelligent design arguments includes more historical examples and careful examination of the experiments and observations that are exploited by creationists seeking to undermine sound science education With new perspectives Prothero reframes creationism as a case study in denialism and pseudoscience rather than a field with its own intellectual dynamism The first edition was hailed as an exemplary exploration of the fossil evidence for evolution and this second edition will be welcome in the libraries of scholars teachers and general readers who stand up for sound science in this post truth era

The Primate Fossil Record Walter Carl Hartwig, 2002-04-11 A comprehensive treatment of primate paleontology Profusely illustrated and up to date it captures the

complete history of the discovery and interpretation of primate fossils The chapters range from primate origins to the advent of anatomically modern humans Each emphasizes three key components of the record of primate evolution history of discovery taxonomy of the fossils and evolution of the adaptive radiations they represent The Primate Fossil Record summarizes objectively the many intellectual debates surrounding the fossil record and provides a foundation of reference information on the last two decades of astounding discoveries and worldwide field research for physical anthropologists paleontologists and evolutionary biologists

Amniote Paleobiology Matthew T. Carrano, 2006-08 Living amniotes including all mammals birds crocodilians snakes and turtles comprise an extraordinarily varied array of more than 21 000 species Found in every major habitat on earth they possess a truly remarkable range of morphological ecological and behavioral adaptations The fossil record of amniotes extends back three hundred million years and reveals much about modern biological diversity of form and function A collaborative effort of twenty four researchers Amniote Paleobiology presents thirteen new and important scientific perspectives on the evolution and biology of this familiar group It includes new discoveries of dinosaurs and primitive relatives of mammals studies of mammalian chewing and locomotion and examinations of the evolutionary process in plesiosaurs mammals and dinosaurs Emphasizing the rich variety of analytical techniques available to vertebrate paleontologists from traditional description to multivariate morphometrics and complex three dimensional kinematics Amniote Paleobiology seeks to understand how species are related to each other and what these relationships reveal about changes in anatomy and function over time A timely synthesis of modern contributions to the field of evolutionary studies Amniote Paleobiology furthers our understanding of this diverse group

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