

SECOND EDITION

PALEONTOLOGICAL DATA ANALYSIS

ØYVIND HAMMER - DAVID A. T. HARPER



WILEY

Paleontological Data Analysis

Kenneth Ratcliffe, Brian A. Zaitlin



Paleontological Data Analysis:

Paleontological Data Analysis Øyvind Hammer, David A. T. Harper, 2008-04-15 During the last 10 years numerical methods have begun to dominate paleontology. These methods now reach far beyond the fields of morphological and phylogenetic analyses to embrace biostratigraphy, paleobiogeography and paleoecology. **Paleontological Data Analysis** explains the key numerical techniques in paleontology and the methodologies employed in the software packages now available. Following an introduction to numerical methodologies in paleontology and to univariate and multivariate techniques including inferential testing, there follow chapters on morphometrics, phylogenetic analysis, paleobiogeography and paleoecology, time series analysis and quantitative biostratigraphy. Each chapter describes a range of techniques in detail with worked examples, illustrations and appropriate case histories. Describes the purpose, type of data required, functionality and implementation of each technique together with notes of caution where appropriate. The book and the accompanying PAST software package see www.blackwellpublishing.com/hammer are important investigative tools in a rapidly developing field characterized by many exciting new discoveries and innovative techniques. An invaluable tool for all students and researchers involved in quantitative paleontology.

Paleontological Data Analysis Øyvind Hammer, David A. T. Harper, 2024-03-05 **PALEONTOLOGICAL DATA ANALYSIS** An up to date edition of the indispensable guide to analysing paleontological data. Paleontology has developed in recent decades into an increasingly data driven discipline which brings to bear a huge variety of statistical tools. Applying statistical methods to paleontological data requires a discipline specific understanding of which methods and parameters are the most appropriate ones and how to account for statistical bias inherent in the fossil record. By guiding the reader to these and other fundamental questions in the statistical analysis of fossilized specimens **Paleontological Data Analysis** has become the standard text for anyone with an interest in quantitative analysis of the fossil record. Now fully updated to reflect the latest statistical methods and disciplinary advances it is an essential tool for practitioners and students alike. Readers of the second edition of **Paleontological Data Analysis** will also find New sections on machine learning, Bayesian inference, phylogenetic comparative methods, analysis of CT data and much more. New use cases and examples using PAST, R and Python software packages. Full color illustrations throughout. **Paleontological Data Analysis** is ideal for paleontologists, evolutionary biologists, taxonomists and students in any of these fields.

Paleontological Data Analysis Øyvind Hammer, D. A. T. Harper, **Encyclopedia of Quaternary Science** Cary Mock, 2013-03-25 The second revised edition of the **Encyclopedia of Quaternary Science** Four Volume Set provides both students and professionals with an up to date reference work on this important and highly varied area of research. There are lots of new articles and many of the articles that appeared in the first edition have been updated to reflect advances in knowledge since 2006 when the original articles were written. The second edition will contain about 375 articles written by leading experts around the world. This major reference work is richly illustrated with more than 3 000 illustrations, most of

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Progress in Geomathematics Graeme Bonham-Carter, Cheng Qiuming, 2008-09-20 Celebrating Frits Agterberg's half century of publication activity in geomathematics this volume's 28 timely papers written by his friends and colleagues treat a variety of subjects of current interest many of them also studied by Frits including spatial analysis in mineral resource assessment quantitative stratigraphy nonlinear multifractal models compositional data analysis time series analysis image analysis and geostatistics Professor Agterberg published his first paper as a graduate student in 1958 and has since produced and continues to publish a steady stream of research papers on a wide variety of subjects of interest to geomathematical practitioners Most of the papers included here address methodology and feature practical case studies so that the book likely has broad appeal to those interested in mathematical geosciences both to academic researchers seeking a comprehensive overview and also to practitioners of geomathematical approaches in industry

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U.S. Geological Survey Bulletin, 1983 *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 Theoretical and Methodological Approaches to Social Sciences and Knowledge Management

Asunción Lopez-Varela Azcárate,2012-08-16 This is a unique and groundbreaking collection of questions and answers coming from higher education institutions on diverse fields and across a wide spectrum of countries and cultures It creates routes for further innovation collaboration amidst the Sciences both Natural and Social the Humanities and the private and public sectors of society The chapters speak across sociocultural concerns education welfare and artistic sectors under the common desire for direct responses in more effective ways by means of interaction across societal structures **Computational Paleontology**

Ashraf M.T. Elewa,2011-03-04 Computational paleontology is simply a term applied to using computers and its facilities in the field of paleontology However we should be exactly precise in describing the term through explaining the main themes of this motivating and attractive scientific field The uppermost aim of this book is to explain how computation could be competent in fetching fossils to life and the past to present Computers for paleontologists save time and costs interpret mysterious events precisely and accurately visualize the ancient life definitely and undeniably **Ammonoid Paleobiology: From macroevolution to paleogeography**

Christian Klug,Dieter Korn,Kenneth De Baets,Isabelle Kruta,Royal H. Mapes,2015-07-22 This two volume work is a testament to the abiding interest and human fascination with ammonites We offer a new model to explain the morphogenesis of septa and the shell we explore their habitats by the content of stable isotopes in their shells we discuss the origin and later evolution of this important clade and we deliver hypotheses on its demise The Ammonoidea produced a great number of species that can be used in biostratigraphy and possibly this is the macrofossil group which has been used the most for that purpose Nevertheless many aspects of their anatomy mode of life development or paleobiogeographic distribution are still poorly known Themes treated are biostratigraphy paleoecology paleoenvironment paleobiogeography evolution phylogeny and ontogeny Advances such as an explosion of new information about ammonites new technologies such as isotopic analysis tomography and virtual paleontology in general as well as continuous discovery of new fossil finds have given us the opportunity to present a comprehensive and timely state of the art compilation Moreover it also points the way for future studies to further enhance our understanding of this endlessly fascinating group of organisms **J J Giambiagi Festschrift**

Horacio Falomir,P L Ferreira,R E Gamboa Saravi,F A Schaposnik,1990-12-31 This book is to commemorate the 65th birthday of J J Giambiagi one of the most important Latin American physicists Giambiagi in collaboration with Bollini invented the time honoured Dimensional Regularization method in 1971 It includes contributions from many of his friends and former students

on their present fields of interest **Handbook of Sea-Level Research** Ian Shennan, Antony J. Long, Benjamin P. Horton, 2015-02-19 Measuring sea level change be that rise or fall is one of the most pressing scientific goals of our time and requires robust scientific approaches and techniques This Handbook aims to provide a practical guide to readers interested in this challenge from the initial design of research approaches through to the practical issues of data collection and interpretation from a diverse range of coastal environments Building on thirty years of international research the Handbook comprises 38 chapters that are authored by leading experts from around the world The Handbook will be an important resource to scientists interested and involved in understanding sea level changes across a broad range of disciplines policy makers wanting to appreciate our current state of knowledge of sea level change over different timescales and many teachers at the university level as well as advanced level undergraduates and postgraduate research students wanting to learn more about sea level change Additional resources for this book can be found at www.wiley.com/go/shennan/sealevel

Encyclopedia of Paleontology Ronald Singer, 2019-06-04 The Encyclopedia of Paleontology is designed to address the shortage of general reference works on both vertebrate and invertebrate paleontology and to serve the needs of students and lay persons interested in the field As the encyclopedia aims to provide basic information the majority of the 350 entries are devoted to explanations of paleontological concepts and techniques examinations of the evolutionary development of particular organisms and biological features profiles of major discoveries and biographies of leading scientists Each entry includes an essay and a further reading list An international team of 200 leading experts in the field has prepared the illustrations and the essays which range from concise descriptions to comprehensive discussions Human Footprints:

Fossilised Locomotion? Matthew R. Bennett, Sarita A. Morse, 2014-08-20 Human footprints provide some of the most emotive and tangible evidence of our ancestors They provide evidence of stature presence behaviour and in the case of early hominin footprints evidence with respect to the evolution of human gait and foot anatomy While human footprint sites are rare in the geological record the number of sites around the World has increased in recent years along with the analytical tools available for their study The aim of this book is to provide a definitive review of these recent developments with specific reference to the increased availability of three dimensional digital elevation models of human tracks at many key sites The book is divided into eight chapters Following an introduction the second chapter reviews modern field methods in human ichnology focusing on the development of new analytical tools The third chapter then reviews the major footprint sites around the World including details on several unpublished examples Chapters then follow on the role of geology in the formation and preservation of tracks on the inferences that can be made from human tracks and the final chapter explores the application of this work to forensic science Audience This volume will be of interest to researchers and students across a wide range of disciplines sedimentology archaeology forensics and palaeoanthropology *Encyclopedia of Ecology* Brian D.

Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous

edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

Application of Modern Stratigraphic Techniques Kenneth Ratcliffe, Brian A. Zaitlin, 2010 Much has been written and debated about the various methodologies applied to modern stratigraphic analysis and the ever increasing complexity of terminologies However there exist numerous stratigraphic techniques that are reliant upon precise quantitative reproducible data rather than qualitative interpretive stratigraphic methodologies Such stratigraphic techniques are applied in an entirely pragmatic non biased manner within the petroleum industry to provide enhanced stratigraphic understanding of petroleum systems The petroleum industry is a key driver behind the development of new stratigraphic techniques and a major provider of new stratigraphic data which has resulted in several of these new techniques having been developed as a requirement to the industry Furthermore because techniques such as isotope chemostratigraphy elemental chemostratigraphy magnetic susceptibility stratigraphy numerical biostratigraphy and heavy mineral stratigraphy are based around precise quantified and reproducible analytical data they provide an independent means to test the more interpretive stratigraphic methodologies This volume attempts an overview of stratigraphic methodologies but largely focuses on data generative stratigraphic techniques such as chemostratigraphy magnetic susceptibility stratigraphy numerical biostratigraphy and heavy mineral stratigraphy Where appropriate each paper discusses data generation methods including sample preparation and analytical methods as well outlining data interpretation methods This is followed by case histories that demonstrate how those data are used to resolve stratigraphic problems commonly using material derived from petroleum basins around the World

Paleobiology of the Polycystine Radiolaria David Lazarus, Noritoshi Suzuki, Yoshiyuki Ishitani, Kozo Takahashi, 2020-12-30 Polycystine radiolaria are exclusively marine protists and are found in all ocean waters from polar regions to the tropics and at all water depths There are approximately 600 distinct described living species and several thousand fossil species of polycystines Radiolarians in general and polycystines in particular have recently been shown to be a major component of the living plankton and important to the oceanic carbon cycle As fossils radiolarians are also fairly common and often occur in sediments where other types of fossils

are absent This has made them very valuable for certain types of geologic research particularly estimating the geologic age of the sediments containing them and as guides to past oceanic water conditions As our current understanding of the biology and even taxonomy of the living fauna is still very incomplete evolutionary studies based on living polycystines are still rare However the common occurrence of numerous specimens for many species and in a wide variety of oceanic environments provides an excellent opportunity to study the processes of biologic evolution in the fossil record Paleobiology of the Polycystine Radiolaria is the first major book on radiolarians to appear in the western literature since 2001 Focusing on living and fossil siliceous shelled radiolarians it is notable for its emphasis not upon morphologic or taxonomic detail but on concepts and applications The book attempts to provide a balanced critical review of what is known of the biology ecology and fossil record of the group as well as their use in evolutionary biostratigraphic and paleoceanographic research Full chapters on the history of study and molecular biology are the first ever in book form Written for an audience of advanced undergraduate to doctoral students as well as for a broad range of professionals in the biological and Earth sciences Paleobiology of the Polycystine Radiolaria summarizes current understanding of the marine planktonic protist group polycystine radiolaria both in living and fossil form **Mach's Principle** Julian B. Barbour, Herbert Pfister, 1995-08-11 This volume is a collection of scholarly articles on the Mach Principle the impact that this theory has had since the end of the 19th century and its role in helping Einstein formulate the doctrine of general relativity 20th century physics is concerned with the concepts of time space motion inertia and gravity The documentation on all of these makes this book a reference for those who are interested in the history of science and the theory of general relativity Stable Isotope Studies of the Water Cycle and Terrestrial Environments A-V. Bojar, A. Pelc, C. Lécuyer, 2021-11-09 This volume is devoted to Earth surface environmental reconstructions and environmental changes that may be deciphered and modelled using stable isotopes along with mineralogical chemical sedimentological palaeontological biological and climatological methodologies The book is divided into two sections both using stable isotopes see www.geolsoc.org.uk/SP507 in various samples and phases as the main research tool The first section is devoted to studies focusing on the distribution of isotopes in precipitation groundwater lakes rivers springs tap water mine water and their relationship with terrestrial environments at regional to continental scale In relation to this the second section includes case studies from a range of continental settings investigating cave deposits stalagmites bat guano animal skeletons dinosaurs alligators turtles bivalves present and past soils palaeosols and limestones The sections focus on the interaction between the surficial water cycle and underground water storage with deposits acting as archives of short to long term climatic and environmental changes Examples from the Early Cretaceous to present time come from Europe Asia Africa North and South America

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