

PALEONTOLOGICAL EVENTS

Stratigraphic, Ecological, and Evolutionary Implications

Carlton E. Brett and Gordon C. Baird, Editors

Paleontological Events Stratigraphic Ecological And Evolutionary Implications

Mark E. Patzkowsky, Steven M. Holland



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Paleontological Events Carlton Elliot Brett, Gordon C. Baird, 1997 A recent renaissance in the field of event stratigraphy has promoted a much more thorough examination of the geologic record of particular fossil bearing strata This reference work compiles the findings of leading researchers on fossil beds epiboles and global bioevents mapping out a definitive temporal and regional classification of event horizons Based primarily on research with Lower and Middle Paleozoic rocks of eastern North America this volume significantly links these events to relatively short term phenomena including storms and climate forcing cycles An invaluable resource for specialists and students in the fields of paleontology paleoecology stratigraphy and sedimentology Paleontological Events helps to clarify the biological and taphonomic significance of these horizons

High-Resolution Approaches in Stratigraphic Paleontology P.J. Harries, 2008-07-30 This volume delves into a spectrum of theoretical as well as applied aspects of high resolution stratigraphic approaches in paleontology It explores how increasingly detailed knowledge of the fossil record can enhance our understanding of the evolution of life on Earth and also allows geoscientists to address a broad range of important evolutionary and environmental questions in this arena A zipped version of the program CONOP9 2007 along with read me files sample files and other documentation are available via a web site see below An earlier version of CONOP9 was initially supplied with High Resolution Approaches in Stratigraphic Paleontology PJ Harries editor and described in Chapter 13 of that volume This is an updated version of the program and the documentation supplied with this version supersedes the information supplied in that chapter To view the CONOP9 Programs click on the link CONOP9 Programs on the right side of this page under Related links

The Great Ordovician Biodiversification Event B. D. Webby, 2004 Two of the greatest evolutionary events in the history of life on Earth occurred during Early Paleozoic time The first was the Cambrian explosion of skeletonized marine animals about 540 million years ago The second was the Great Ordovician Biodiversification Event which is the focus of this book This is the first book devoted specifically to establishing the global patterns of differentiation of Ordovician biotas through time and space It provides extensive genus and species level diversity data for the many Ordovician fossil groups and presents an evaluation of how each group diversified with assessments of patterns of change and rates of origination and extinction

Stratigraphic Paleobiology Mark E. Patzkowsky, Steven M. Holland, 2022-12-22 Whether the fossil record should be read at face value or whether it presents a distorted view of the history of life is an argument seemingly as old as many fossils themselves In the late 1700s Georges Cuvier argued for a literal interpretation but in the early 1800s Charles Lyell s gradualist view of the earth s history required a more nuanced interpretation of that same record To this day the tension between literal and interpretive readings lies at the heart of paleontological research influencing the way scientists view extinction patterns and their causes ecosystem persistence and turnover and the pattern of morphologic change and mode of speciation With Stratigraphic Paleobiology Mark E Patzkowsky and Steven M Holland present a critical framework for assessing the fossil

record one based on a modern understanding of the principles of sediment accumulation Patzkowsky and Holland argue that the distribution of fossil taxa in time and space is controlled not only by processes of ecology evolution and environmental change but also by the stratigraphic processes that govern where and when sediment that might contain fossils is deposited and preserved The authors explore the exciting possibilities of stratigraphic paleobiology and along the way demonstrate its great potential to answer some of the most critical questions about the history of life How and why do environmental niches change over time What is the tempo and mode of evolutionary change and what processes drive this change How has the diversity of life changed through time and what processes control this change And finally what is the tempo and mode of change in ecosystems over time

Australian Echinoderms Timothy O'Hara, Maria Byrne, 2017-06-01 Echinoderms including feather stars seastars brittle stars sea urchins and sea cucumbers are some of the most beautiful and interesting animals in the sea They play an important ecological role and several species of sea urchins and sea cucumbers form the basis of important fisheries Over 1000 species live in Australian waters from the shoreline to the depths of the abyssal plain and the tropics to Antarctic waters Australian Echinoderms is an authoritative account of Australia's 110 families of echinoderms It brings together in a single volume comprehensive information on the identification biology evolution ecology and management of these animals for the first time Richly illustrated with beautiful photographs and written in an accessible style Australian Echinoderms suits the needs of marine enthusiasts academics and fisheries managers both in Australia and other geographical areas where echinoderms are studied

Actualistic Taphonomy in South America Sergio Martínez, Alejandra Rojas, Fernanda Cabrera, 2019-07-06 Highlighting the latest research on Actualistic Taphonomy AT this book presents the outcomes of a meeting that took place in Montevideo Uruguay in October 2017 Its respective chapters offer valuable insights into South American archaeology invertebrate and vertebrate fauna and flora In recent years there has been a surge of new research on AT as evidenced by numerous papers talks theses etc However there are still very few AT books or even dedicated journal articles Reflecting the discipline's newfound maturity this book written by South American authors offers a unique resource for academics and students of Paleontology Geology and Biology around the world

Disarticulation and Preservation of Fossil Echinoderms: Recognition of Ecological-Time Information in the Echinoderm Fossil Record William I. Ausich, 2021-02-11 The history of life on earth is largely reconstructed from time averaged accumulations of fossils A glimpse at ecologic time attributes and processes is relatively rare However the time sensitive and predictability of echinoderm disarticulation makes them model organisms to determine post mortem transportation and allows recognition of ecological time data within paleocommunity accumulations Unlike many other fossil groups this has allowed research on many aspects of echinoderms and their paleocommunities such as the distribution of soft tissues assessment of the amount of fossil transportation prior to burial determination of intraspecific variation paleocommunity composition estimation of relative abundance of taxa in paleocommunities determination of attributes of

niche differentiation etc Crinoids and echinoids have received the most amount of taphonomic research and the patterns present in these two groups can be used to develop a more thorough understanding of all echinoderm clades **Applied Stratigraphy** Eduardo A.M. Koutsoukos,2007-08-16 Stratigraphy has come to be indispensable to nearly all branches of the earth sciences assisting such endeavors as charting the course of evolution understanding ancient ecosystems and furnishing data pivotal to finding strategic mineral resources This book focuses on traditional and innovative stratigraphy techniques and how these can be used to reconstruct the geological history of sedimentary basins and in solving manifold geological problems and phenomena *Evolutionary Theory* Niles Eldredge,Telmo Pievani,Emanuele Serrelli,Ilya Tëmkin,2016-09-23 The natural world is infinitely complex and hierarchically structured with smaller units forming the components of progressively larger systems molecules make up cells cells comprise tissues and organs that are in turn parts of individual organisms which are united into populations and integrated into yet more encompassing ecosystems In the face of such awe inspiring complexity there is a need for a comprehensive non reductionist evolutionary theory Having emerged at the crossroads of paleobiology genetics and developmental biology the hierarchical approach to evolution provides a unifying perspective on the natural world and offers an operational framework for scientists seeking to understand the way complex biological systems work and evolve Coedited by one of the founders of hierarchy theory and featuring a diverse and renowned group of contributors this volume provides an integrated comprehensive cutting edge introduction to the hierarchy theory of evolution From sweeping historical reviews to philosophical pieces theoretical essays and strictly empirical chapters it reveals hierarchy theory as a vibrant field of scientific enterprise that holds promise for unification across the life sciences and offers new venues of empirical and theoretical research Stretching from molecules to the biosphere hierarchy theory aims to provide an all encompassing understanding of evolution and with this first collection devoted entirely to the concept will help make transparent the fundamental patterns that propel living systems Geobiology: Objectives, Concepts, Perspectives N. Noffke,2012-12-02 Geobiology is an exciting and rapidly developing research discipline that opens new perspectives in understanding Earth as a system To determine and to exploit its possibilities this promising scientific field will benefit from a discussion of its definition as a research discipline its objectives and its methodological approaches Such a spirited discussion is the goal of the book Geobiology Objectives Concepts Perspectives Geobiology touches various subdisciplines of geology and biology in many ways The book will serve biogeochemists paleontologists biomineralogists microbiologists and many others as a forum to determine future directions of geobiological research The book includes a section on the concept of geobiological studies which combines the parent disciplines biology and geology Several case studies describe geobiological investigations that serve to understand Earth in the present and past The case studies give an overview of the general understanding of geobiology and lead the reader towards the current hot topics in this rising scientific discipline New definition of the rising scientific discipline geobiology Overview into the broad spectrum of

geobiological topics Insight into hot topics of current geobiological research

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