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Dana S. Ulmer-Scholle  
Editors

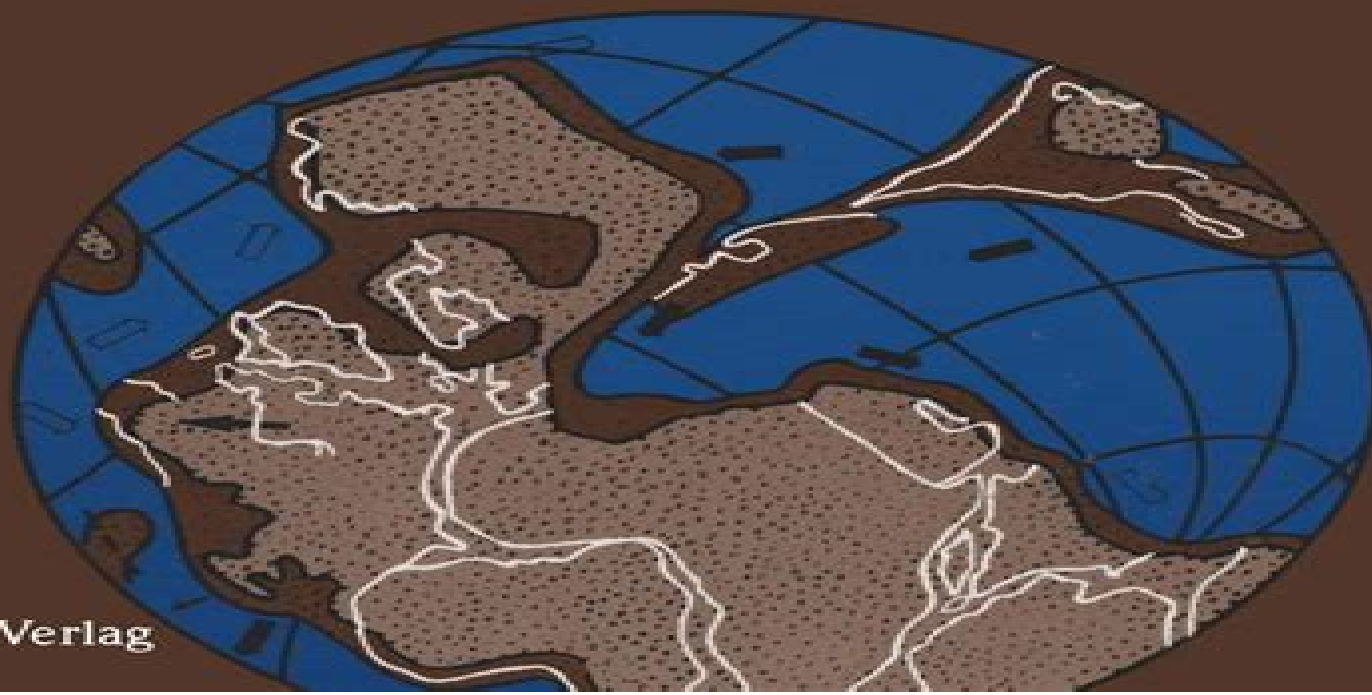
# The Permian of Northern Pangea

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Paleogeography, Paleoclimates,  
Stratigraphy



Springer-Verlag



# The Permian Of Northern Pangea Paleogeography Paleoclimates Stratigraphy

**Jianxin Yu, Jean Broutin, Zongsheng Lu**



## **The Permian Of Northern Pangea Paleogeography Paleoclimates Stratigraphy:**

**The Permian of Northern Pangea** Peter A. Scholle, Tadeusz M. Peryt, Dana S. Ulmer-Scholle, 2012-12-06 The Permian was a remarkable time period. It represents the maximum stage of Pangean continental assembly, includes a major global climatic shift from glacial to nonglacial conditions (icehouse to greenhouse transition) and is terminated by one of the most profound faunal/floral extinction events in the Earth's history. In addition, Permian oceans, although poorly understood, must have had some quite unique characteristics. Permian seas reached the most extreme values of carbon, sulfur, and strontium isotopic ratios ever achieved in Phanerozoic time, and the isotopic ratios of all three elements abruptly returned to more normal values at or very close to the Permian-Triassic boundary. Finally, the Permian is marked by an abundance of important sedimentary mineral resources. It has large fossil fuel concentrations (coal, oil, and natural gas), enormous phosphate reserves, and very extensive evaporite deposits including gypsum, anhydrite, and halite, as well as a variety of potash salts. Study of the Permian has been hampered, however, by a number of factors. These include a scattered geologic literature presented in a variety of languages, a confusing regional and global stratigraphic framework based in part on inadequate type sections and largely provincial, often poorly correlatable faunas. All have contributed to the sparsity and inadequacy of overviews of this critical geological interval. These two volumes attempt to bring together some of the widely scattered observations about these fascinating rocks, at least for the northern, predominantly nonglacial parts of Pangea.

*The Permian of Northern Pangea: Paleogeography, paleoclimates, stratigraphy*, 1995

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*The Permian of Northern Pangea* Peter A. Scholle, Tadeusz M. Peryt, Dana S. Ulmer-Scholle, 1995-03-28 The Permian was a remarkable time period. It represents the maximum stage of Pangean continental assembly, includes a major global climatic shift from glacial to nonglacial conditions (icehouse to greenhouse transition) and is terminated by one of the most profound faunal/floral extinction events in the Earth's history. In addition, Permian oceans, although poorly understood, must have had some quite unique characteristics. Permian seas reached the most extreme values of carbon, sulfur, and strontium isotopic ratios ever achieved in Phanerozoic time, and the isotopic ratios of all three elements abruptly returned to more normal values at or very close to the Permian-Triassic boundary. Finally, the Permian is marked by an abundance of important sedimentary mineral resources. It has large fossil fuel concentrations (coal, oil, and natural gas), enormous phosphate reserves, and very extensive evaporite deposits including gypsum, anhydrite, and halite, as well as a variety of potash salts. Study of the Permian has been hampered, however, by a number of factors. These include a scattered geologic literature presented in a variety of languages, a confusing regional and global stratigraphic framework based in part on inadequate type sections and largely provincial, often poorly correlatable faunas. All have contributed to the sparsity and inadequacy of overviews of this critical geological interval. These two volumes attempt to bring together some of the widely scattered observations about these fascinating rocks, at least for the northern

predominantly nonglacial parts of Pangea      **Life Cycle of the Phosphoria Formation** J.R. Hein, 2003-12-18 Geological geoenvironmental and resource studies were completed to study a world class phosphate ore in the Western US Phosphate Field This integrated multi agency multidisciplinary research emphasized 1 Geological and geochemical baseline characterization of the deposit and associated rocks 2 Delineation assessment and spatial analysis of phosphate resources and lands disturbed by mining 3 Contaminant residence reaction pathways and environmental fate associated with the occurrence development and use of phosphate rock and 4 Depositional origin and evolution of the Phosphoria Formation and deposit and geoenvironmental modeling      **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      Palaeozoic Climate Cycles A. Gąsiewicz, M. Słowakiewicz, 2014-02-03 This volume presents results of a variety of case studies documenting the Late Palaeozoic climate changes and cyclicity of deposition The collected papers cover many aspects related to palaeoenvironmental analysis with sedimentological stratigraphic palaeobiological geochemical and palaeomagnetic studies of the fossil record around the Late Palaeozoic Ice Age and soon after They span a stratigraphic interval from Carboniferous to Permian Triassic transition around the world This book comprising results for a range of disciplines is a valuable source for not only researchers who are actively working on specific aspects of the Late Palaeozoic and looking for an up to date reference on this inhospitable time in the Earth's history It is also of interest to climate modellers and the wider scientific community with an interest in the latest research on the decline of the Palaeozoic World      **A Geologic Time Scale 2004** Felix M. Gradstein, James George Ogg, Alan Gilbert Smith, 2004 An international team of over forty stratigraphic experts have helped to build the most up to date international stratigraphic framework for the Precambrian and Phanerozoic This successor to A Geologic Time Scale 1989 by W Brian Harland et al CUP 0521 387655 begins with an introduction to the theory and methodology behind the construction of the new time scale The main part of the book is devoted to the scale itself systematically presenting the standard subdivisions at all levels using a variety of correlation markers Extensive use is made of isotope geochronology geomathematics and orbital tuning to produce a standard geologic scale of unprecedented detail and accuracy with a full error analysis A wallchart summarising the whole time scale with paleogeographic reconstructions throughout the Phanerozoic is included in the back of the book The time scale will be an invaluable reference source for academic and professional researchers and students      The Nonmarine Permian Spencer G. Lucas, Kate E. Zeigler, 2005      The Carboniferous-Permian Transition Spencer G. Lucas, William A. DiMichele, James E. Barrick, Joerg W. Schneider, Justin A. Spielmann, 2013      *Plants and Palynomorphs around the Permian-Triassic Boundary of South China* Jianxin Yu, Jean

Broutin,Zongsheng Lu,2022-08-08 This book documents timely and systematically marvelous fossils plants and sporopollen related to the biggest mass extinction of the Permian Triassic transition Numerous beautiful pictures and comprehensive records on the plants of this unique and critical interval of geohistory are presented in this book It greatly contributes to understanding of the Permian Triassic plant diversity and evolution For geologists it is important to understand the Permian Triassic crisis and for students it is attractive to learn about the plants response to palaeoclimatic changes *Salt in the Earth Sciences* Webster Mohriak,2025-08-07 A comprehensive review of giant salt basins salt tectonic events and their global implications Salt is formed when water rich in evaporite minerals accumulates on the Earth s surface and then evaporates Over time pressure and tectonics change the structure and shape of salt layers Recent technological advances have improved the interpretation and modeling of subsurface salt structures Salt in the Earth Sciences Basin Analysis and Salt Tectonics presents a global overview of giant salt basins formed under diverse tectonic settings connecting salt deposition with tectonic events climate change and more Volume highlights include Stratigraphic and structural features of giant salt basins Theories for the origin of salt giants and their deep crustal architecture Accumulations of hydrocarbon resources in salt basins Global examples of giant salt basins Salt and shale tectonic models including salt and mud diapirism magmatism and salt dissolution Correlations with plate tectonics climate changes global glaciations and major volcanic events Extreme environments associated with evaporite deposition on Earth and other planets of the solar system Browse the other volume in this set Salt in the Earth Sciences Evaporite Rocks and Salt Deposition The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals **Palaeontology and Historical Geology** Jin Yu-Gan,Dineley,2020-08-26 This book is a collection of papers presented in the symposia held in Beijing on palaeontology and historical geology The papers deal with different topics providing information on Palaeobiogeography and Palaeoecology of Asian countries their faunal content and fossil preservation *Tracing Tectonic Deformation Using the Sedimentary Record* Tom McCann,Aline Saintot,2003 The study of sediments and sedimentary basins in terms of their tectonic environment requires a multidisciplinary approach and has increasingly drawn both techniques and objectives from fields outside sedimentology Studies presented in this volume range across a wide spectrum from the analysis of sedimentary sequence architecture at basin scale down to the chemical properties of individual grains and include studies from a range of tectonic settings **Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins** Juan I. Soto,Joan Flinch,Gabor Tari,2017-06-05 Permo Triassic Salt Provinces of Europe North Africa and the Atlantic Margins Tectonics and Hydrocarbon Potential deals with the evolution and tectonic significance of the Triassic evaporite rocks in the Alpine orogenic system and the Neogene basins in the Iberian Peninsula North Africa and the western Mediterranean As the nature of the Triassic evaporite sequences the varied diapiric structures they feed and the occurrence of hydrocarbons suggest that the Triassic

evaporites represent an efficient system to trap hydrocarbons this book explores the topic with a wide swath also devoting content to a relatively unexplored topic the mobilization and deformation of the Triassic salt in the western and northern Tethys from Iberia and North Africa Pyrenees and Alps Adriatic and Ionian during the subsequent Alpine orogenic processes The book includes chapters updating varied topics like the Permian and Triassic chronostratigraphic scales palaeogeographic reconstructions of the western Tethys since the Late Permian the petroleum systems associated with Permo Triassic salt allochthonous salt tectonics and a latest revision of salt tectonic processes in the Permian Zechstein Basin the Atlantic Margins from Barents Sea Scotia Portugal Morocco and Mauritania the Alpine folded belts in Europe and the various Triassic salt provinces in North Africa The book is the go to guide for salt tectonic researchers and those working in the hydrocarbon exploration industry Presents the first reference book to cover salt tectonics of Permo Triassic period rocks Features case studies of passive margins like the Barents and the North Sea Greenland Nova Scotia offshore Mauritania Morocco and Iberia and folded belts like the Betics Rif Tell Pyrenees Atlas Mountains Alps Balkans Apennines the Adriatic and Ionian Seas and the Zechstein Basin in Norway the UK the Netherlands Germany and Poland Integrates field observations seismic examples well log data and models developed in universities with highly technical and advanced subsurface studies developed by the petroleum industry

*Phanerozoic Phosphorite Depositional Systems* Jörg Trappe, 2006-04-10 The book presents a new and comprehensive model for the development of phosphate sediments Starting with geochemistry and including new methods in sedimentology sequence stratigraphy it results in an interdisciplinary approach to a resource system covering all fields of phosphate geology For researchers teachers and students alike the book offers a complete overview of the whole field including case studies of major deposits

**Palaeozoic Reefs and Bioaccumulations** J. Javier Álvaro, 2007 The geological record contains a fascinating diversity of reefs and shell accumulations As with many other biosedimentary structures their facies characterization requires careful observation at outcrop and sample scale and in thin section to provide information about the global geometries fabrics and textures respectively This collection of papers encompasses the breadth of sedimentary geometries and facies displayed by Palaeozoic reefs shell accumulations and transitional composite deposits The definition of reefs and shell concentrations has given rise to variations in nomenclature The papers in this volume cover specific problems regarding the nomenclature and facies characterization of reefs shell accumulations and transitional composite deposits However rather than attempt a complete revision of terms the authors have touched on some of the important issues at this stage of development in the field the main climatic environmental and evolutionary factors that controlled the Palaeozoic development of shell accumulations and reefs

[Bryozoan Studies 2004](#) Hugo Moyano, Juan Cancino, Patrick Wyse Jackson, 2005-02-17 A selection of papers presented at the 13th International Conference of the International Bryozoology Association held in Concepción Chile in January 2004 and hosted by the Universidad de Concepción and Universidad Católica de la Santísima Concepción The topics presented in this volume reflect the

diversity of studies on bryozoa with authors from 18  
Anderson,2005-01-01

The Mojave-Sonora Megashear Hypothesis Thomas Howard

## **The Permian Of Northern Pangea Paleogeography Paleoclimates Stratigraphy** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **The Permian Of Northern Pangea Paleogeography Paleoclimates Stratigraphy**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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