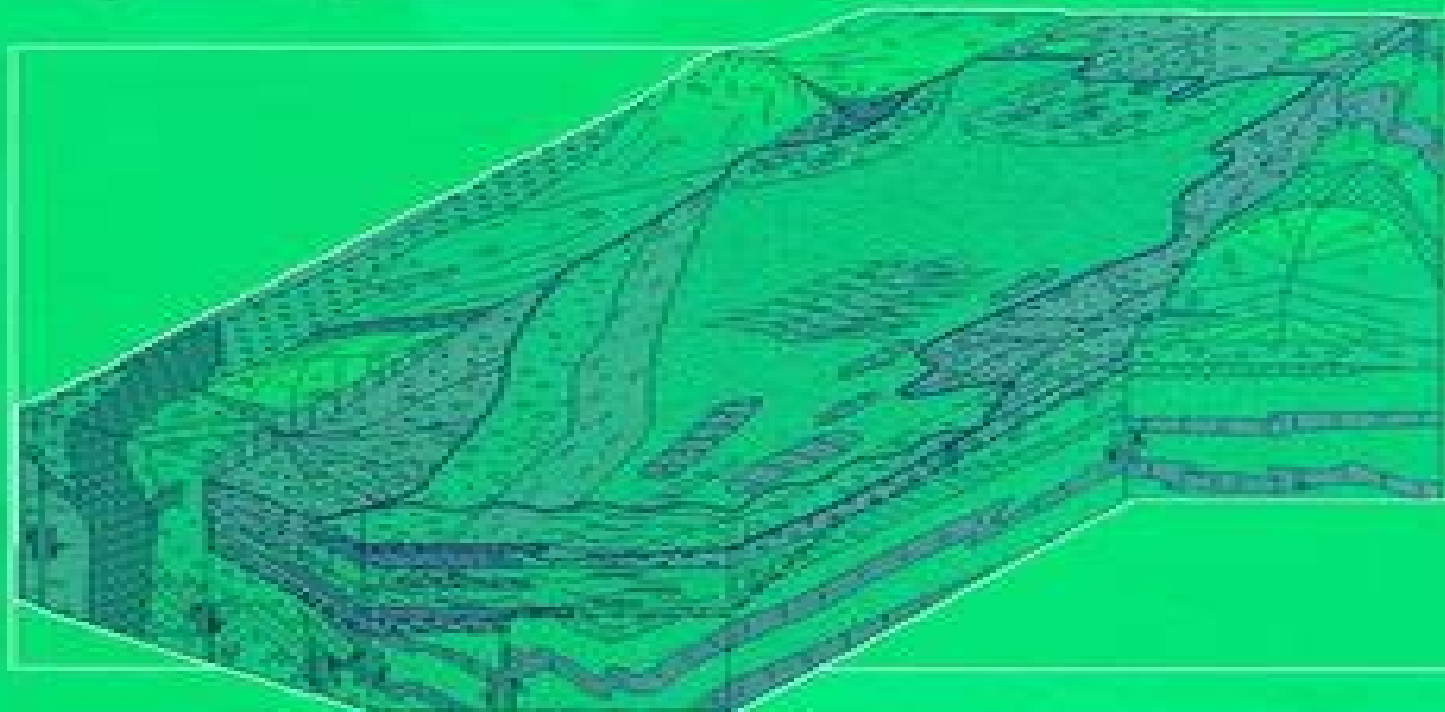


# Precambrian Sedimentary Environments: A Modern Approach to Ancient Depositional Systems

Special Publication Number 33 of the  
International Association of Sedimentologists  
Edited by Wladyslaw Altermann and Patricia L. Corcoran  
and published by Blackwell Science



# Precambrian Sedimentary Environments A Modern Approach To Ancient Depositional Systems

**Wladyslaw Altermann, Patricia  
Corcoran**



## **Precambrian Sedimentary Environments A Modern Approach To Ancient Depositional Systems:**

Precambrian Sedimentary Environments Wladyslaw Altermann, Patricia Corcoran, 2009-03-05 The motivation for this volume came from the idea that the Precambrian is the key both to the present and to the understanding of the Earth as a whole. The Precambrian constitutes about 85% of Earth's history and of that about 3.75 billion years of Precambrian time represented by rocks are accessible to geoscientists. Ancient atmospheric and environmental conditions can be traced back to the time when the Earth was only about 250 million years old. Precambrian rocks supply almost 75% of important mineral resources such as Fe, Mn, Au, Pt, and Cr. Many of these elements are associated with sedimentary rocks and some important hydrocarbon coal and graphite deposits are also hosted by Precambrian rocks. This volume is aimed at geoscientists interested in Precambrian sedimentary rocks and at students of Earth history. It contains review articles discussing Precambrian conditions and case studies from Precambrian shields and successions of North and South America, Australia, Africa, Europe, Asia, and India. The introductory papers written by experts on Precambrian environments treat comprehensively the application of actualism to the Precambrian, the evolution and influence of life on the sedimentary rock record, the genesis of Banded Iron Formations, the Precambrian sulphur cycle, and the significance of Precambrian chemical carbonate precipitates. The case studies include depositional settings and processes in Archean terranes, in Paleoproterozoic sequences with some emphasis on the lack of vegetation and weathering, and in late Proterozoic sequences with some emphasis on glacial deposits. The contributions demonstrate that Precambrian sedimentary deposits are commonly similar to their Phanerozoic counterparts in terms of composition, sedimentary processes, and depositional setting but may differ significantly as a result of lack of vegetation, climatic and biological constraints, composition, and circulation of seawater, and the secular involvement of continental crust. Contains review articles discussing Precambrian conditions and case studies from Precambrian shields and successions of North and South America, Australia, Africa, Europe, Asia, and India. The introductory papers written by experts on Precambrian environments treat comprehensively the application of actualism to the Precambrian, the evolution and influence of life on the sedimentary rock record, the genesis of Banded Iron Formations, the Precambrian sulphur cycle, and the significance of Precambrian chemical carbonate precipitates. Detailed case studies include depositional settings and processes in Archean terranes, in Paleoproterozoic sequences with some emphasis on the lack of vegetation and weathering, and in late Proterozoic sequences with some emphasis on glacial deposits. Written for geoscientists interested in Precambrian sedimentary rocks and students of Earth history. If you are a member of the International Association of Sedimentologists (IAS) for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP33> *From Depositional Systems to Sedimentary Successions on the Norwegian Continental Margin* Allard W. Martinius, R. Ravnås, J. A. Howell, R. J. Steel, J. P. Wonham, 2014-10-06 The Norwegian Continental Shelf (NCS) focus of this special publication is a prolific hydrocarbon region and both exploration and production activity remains high to this day with a positive production outlook. A key element today

and in the future is to couple technological developments to improving our understanding of specific geological situations. The theme of the publication reflects the immense efforts made by all industry operators and their academic partners on the NCS to understand in detail the structural setting, sedimentology and stratigraphy of the hydrocarbon bearing units and their source and seal. The papers cover a wide spectrum of depositional environments ranging from alluvial fans to deepwater fans in almost every climate type from arid through humid to glacial and in a variety of tectonic settings. Special attention is given to the integration of both analogue studies and process based models with the insights gained from extensive subsurface datasets.

The Precambrian Earth P.G. Eriksson, Wladyslaw Altermann, D.R. Nelson, W.U. Mueller, O. Catuneanu, Octavian Catuneanu, 2004-03-04. In this book the editors strive to cover all primary i.e. non applied topics in Precambrian geology in a non partisan way by using a large team of international authors to present their datasets and highly divergent viewpoints. The chapters address celestial origins of Earth and succeeding extraterrestrial impact events, generation of continental crust and the greenstone granite debate, the interaction of mantle plumes and plate tectonics over Precambrian time, Precambrian volcanism emphasising komatiite research, evolution and models for Earth's hydrosphere and atmosphere, evolution of life and its influence on Precambrian ocean chemistry and chemical sedimentation, sedimentation through Precambrian time, the application of sequence stratigraphy to the Precambrian rock record. Each topic is introduced and a non partisan closing commentary provided at the end of each chapter. The final chapter blends the major geological events and rates at which important processes occurred into a synthesis which postulates a number of event clusters in the Precambrian when significant changes occurred in many natural systems and geological environments. Also available in paperback ISBN 0 444 51509 7.

*Analogue and Numerical Modelling of Sedimentary Systems* Poppe de Boer, George Postma, Kees van der Zwan, Peter Burgess, Peter Kukla, 2009-01-26. Understanding basin fill evolution and the origin of stratal architectures has traditionally been based on studies of outcrops, well and seismic data, studies of and inferences on qualitative geological processes and to a lesser extent based on quantitative observations of modern and ancient sedimentary environments. Insight gained on the basis of these studies can increasingly be tested and extended through the application of numerical and analogue forward models. Present day stratigraphic forward modelling follows two principle lines: 1 the deterministic process based approach ideally with resolution of the fundamental equations of fluid and sediment motion at all scales and 2 the stochastic approach. The process based approach leads to improved understanding of the dynamics/physics of the system, increasing our predictive power of how systems evolve under various forcing conditions unless the system is highly non linear and hence difficult or perhaps even impossible to predict. The stochastic approach is more direct, relatively simple and useful for study of more complicated or less well understood systems. Process based models more than stochastic ones are directly limited by the diversity of temporal and spatial scales and the very incomplete knowledge of how processes operate and interact on the various scales. The papers included in this book demonstrate how cross fertilization between traditional

field studies and analogue and numerical forward modelling expands our understanding of Earth surface systems

*Sedimentary Processes, Environments and Basins* Gary Nichols, Edward Williams, Chris Paola, 2009-03-05 For several decades Peter Friend has been one of the leading figures in sedimentary geology and throughout that time he has helped scores of other people by supervising doctoral students collaborating with colleagues especially in developing countries and selflessly sharing ideas with fellow geologists This collection of papers is a survey of the research frontier in basin dynamics a field Peter Friend helped initiate and a token of thanks from people who have benefited from an association with Peter during their careers The papers in this book fall into four themes Tectonics and sedimentation Landscape evolution and provenance Depositional systems and Fluvial sedimentation which reflect Peter's research interests and are all important areas of current research in sedimentary geology There are both case studies and review articles on these themes which reflect recent work but the collection can also be considered to be a sampler of sedimentary geology for anyone with broad interests in the Earth sciences

**Mesozoic Stratigraphy of India** Santanu Banerjee, Subir Sarkar, 2021-08-02 This book envisages a multi proxy approach using stable isotopes geochemical proxies magnetic susceptibility and associated biotic events for paleoclimatic and paleoenvironmental interpretations of the Mesozoic sedimentary record of India Mesozoic rocks of India record abnormal sea level rise greenhouse climate intensified volcanism hypoxia in seawater extensive black shale deposition and hydrocarbon occurrence The Mesozoic has also witnessed mass extinction events evolution of dinosaurs and breakdown of the supercontinent Pangea and the formation of Gondwana Although the Mesozoic geology of India has witnessed significant progress in the last century literature survey reveals a huge gap in knowledge regarding sequence stratigraphy chemostratigraphy and key geological events A synthesis of sedimentological paleontological and chemical data is included to presenting a comprehensive understanding of the Indian Mesozoic record to students researchers and professionals

**Born of Ice and Fire** Graham Shields, 2024-01-05 An exploration of how the Cryogenian Period when our planet was covered in ice for millions of years created today's remarkable biodiversity More than half a billion years ago our world was completely covered by glaciers a Snowball Earth that persisted for millions of years Incredibly this unimaginable cold led to the remarkable diversification of life on earth known as the Cambrian explosion With a geologist's eye and a knack for storytelling Graham Shields explores when and how such inhospitable conditions enabled animals to evolve radiate and diversify into our earliest ancestors This journey navigates the wild swings between hot and cold climates oxygenation and asphyxiation biological radiations and extinctions asking how such instability relates to grander forces that brought our planet to its modern state Shields guides readers through evidence found in the Australian outback Mongolia Scotland and other locales revealing how geologists can trace glaciation the atmosphere oceans mountain building and more through the earth's rocks providing a comprehensive theory of how life evolved and diversified

**Contributions to Modern and Ancient Tidal Sedimentology** Bernadette Tessier, Jean-Yves Reynaud, 2016-03-03 Tidal deposits have been a specific

research topic for about 40 years and whilst this has resulted in a proliferation of papers in scientific journals there have only been a few book length syntheses Over the years tidal sedimentology has been reinforced by fluid mechanics and numerical modelling but has remained rooted in facies and stratigraphic studies Recent developments in tidal sedimentology lean toward a more quantitative assessment of the imprint of tides in the facies record of intertidal and shallow subtidal areas They highlight the increasing relevance of tidal deposits studies from high resolution subsurface reservoir geology to climate change and sea level rise This volume gathers 17 contributions to the Tidalites 2012 congress held in Caen France It reflects current advances in the sedimentology and stratigraphy of tidal deposits in both ancient and modern environments It shows the current diversity of this field of research through a wide spectrum of methods including remote sensing in situ hydrodynamical measurements and ichnology in addition to classic field studies and petrography

**Chemostratigraphy Across Major Chronological Boundaries** Alcides N. Sial, Claudio Gaucher, Muthuvairavasamy Ramkumar, Valderez Pinto Ferreira, 2018-11-16 Winner of the 2020 PROSE Award for Earth Science Exploring environmental changes through Earth's geological history using chemostratigraphy Chemostratigraphy is the study of the chemical characteristics of different rock layers Decoding this geochemical record across chronostratigraphic boundaries can provide insights into geological history past climates and sedimentary processes Chemostratigraphy Across Major Chronological Boundaries presents state of the art applications of chemostratigraphic methods and demonstrates how chemical signatures can decipher past environmental conditions Volume highlights include Presents a global perspective on chronostratigraphic boundaries Describes how different proxies can reveal distinct elemental and isotopic events in the geologic past Examines the Archaean Paleoproterozoic Proterozoic Paleozoic Paleozoic Mesozoic and Mesozoic Paleogene boundaries Explores cause and effect through major trace PGE and REE elemental stable and radiogenic isotopes Offers solutions to persistent chemostratigraphic problems on a micro global scale Geared toward academic and research geoscientists particularly in the fields of sedimentary petrology stratigraphy isotope geology geochemistry petroleum geology atmospheric science oceanography climate change and environmental science Chemostratigraphy Across Major Chronological Boundaries offers invaluable insights into environmental evolution and climatic change Read the Editors Vox <https://eos.org/editors-vox/unravelling-the-past-using-elements-and-isotopes>

**Linking Diagenesis to Sequence Stratigraphy** Sadoon Morad, Marcelo Ketzer, Luis F. de Ros, 2012-11-07 Sequence stratigraphy is a powerful tool for the prediction of depositional porosity and permeability but does not account for the impact of diagenesis on these reservoir parameters Therefore integrating diagenesis and sequence stratigraphy can provide a better way of predicting reservoir quality This special publication consists of 19 papers reviews and case studies exploring different aspects of the integration of diagenesis and sequence stratigraphy in carbonate siliciclastic and mixed carbonate siliciclastic successions from various geological settings This book will be of interest to sedimentary petrologists aiming to understand the distribution of diagenesis in siliciclastic and carbonate successions to

sequence stratigraphers who can use diagenetic features to recognize and verify interpreted key stratigraphic surfaces and to petroleum geologists who wish to develop more realistic conceptual models for the spatial and temporal distribution of reservoir quality This book is part of the International Association of Sedimentologists IAS Special Publications The Special Publications from the IAS are a set of thematic volumes edited by specialists on subjects of central interest to sedimentologists Papers are reviewed and printed to the same high standards as those published in the journal *Sedimentology* and several of these volumes have become standard works of reference *Geological Survey of Canada, Current Research (Online) no. 2006-A7* L. Ootes, 2006 Stratigraphy: A Modern Synthesis Andrew D. Miall, 2022-03-02 The updated textbook is intended to serve as an advanced and detailed treatment of the evolution of the subject of stratigraphy from its disparate beginnings as separate studies of sedimentology lithostratigraphy chronostratigraphy etc into a modern integrated discipline in which all components are necessary There is a historical introduction which now includes information about the timeline of the evolution of the components of modern stratigraphy The elements of the various components facies analysis sequence stratigraphy mapping methods chronostratigraphic methods etc are outlined and a chapter discussing the modern synthesis is included near the end of the book which closes with a discussion of future research trends in the study of time as preserved in the stratigraphic record The Geology of Central Europe: Precambrian and Palaeozoic Tom McCann, 2008 Publishers Weekly Top 10 Best of the Year In her new collection Story Prize finalist Maureen F McHugh delves into the dark heart of contemporary life and life five minutes from now and how easy it is to mix up one with the other Her stories are post bird flu in the middle of medical trials wondering if our computers are smarter than us wondering when our jobs are going to be outsourced overseas wondering if we are who we say we are and not sure what we do to survive the coming zombie plague Praise for Maureen F McHugh Gorgeously crafted stories Nancy Pearl NPR Hauntingly beautiful Booklist Unpredictable and poetic work The Plain Dealer Maureen F McHugh has lived in New York Shijiazhuang China Ohio Austin Texas and now lives in Los Angeles California She is the author of a Story Prize finalist collection Mothers Other Monsters and four novels including Tiptree Award winner China Mountain Zhang and New York Times editor's choice Nekropolis McHugh has also worked on alternate reality games for Halo 2 The Watchmen and Nine Inch Nails among others io9 Best SF F Books of 2011 Tiptree Award Honor List Philip K Dick Award finalist Story Prize Notable Book **Fluvial Meanders and Their Sedimentary Products in the Rock Record (IAS SP 48)** Massimiliano Ghinassi, Luca Colombero, Nigel P. Mountney, Arnold Jan H. Reesink, 2019-01-22 The sinuous form and peculiar evolution of meandering rivers has long captured the imagination of people Today meandering rivers exist in some of the most densely populated areas in the World where they provide environmental and economic wealth and opportunities as well as posing hazards Through geological time the ancestors of these modern meanders built deposits that are now host to mineral resources groundwater and hydrocarbons This Special Publication illustrates the breadth of current research on meandering rivers and

their deposits The collection of research papers demonstrates the state of science on fluvial process product relationships The articles cover fundamental and applied studies of both modern and ancient rivers are based on state of the art technology include complementary philosophical approaches and span a wide range of spatial and temporal scales This book includes some of the most recent advances in the study of the morphodynamics and sedimentology of meandering rivers and is an important resource for those who want to investigate fluvial systems and their deposits

Reading the Archive of Earth's Oxygenation Victor Melezhik,Anthony R. Prave,Eero J. Hanski,Anthony E. Fallick,Aivo Lepland,Lee R. Kump,Harald Strauss,2012-09-26 Earth's present day environments are the outcome of a 4.5 billion year period of evolution reflecting the interaction of global scale geological and biological processes Punctuating that evolution were several extraordinary events and episodes that perturbed the entire Earth system and led to the creation of new environmental conditions sometimes even to fundamental changes in how planet Earth operated Volume 3 Global Events and the Fennoscandian Arctic Russia Drilling Earth Project represents another kind of illustrated journey through the early Palaeoproterozoic provided by syntheses reviews and summaries of the current state of our understanding of a series of global events that resulted in a fundamental change of the Earth System from an anoxic to an oxic state The book discusses traces of life possible causes for the Huronian age glaciations addresses radical changes in carbon sulphur and phosphorus cycles during the Palaeoproterozoic and provides a comprehensive description and a rich photo documentation of the early Palaeoproterozoic supergiant petrified oil field Terrestrial environments are characterised through a critical review of available data on weathered and calichified surfaces and travertine deposits Potential implementation of Ca Mg Sr Fe Mo U and Re Os isotope systems for deciphering Palaeoproterozoic seawater chemistry and a change in the redox state of water and sedimentary columns are discussed The volume considers in detail the definition of the oxic atmosphere possible causes for the oxygen rise and considers the oxidation of terrestrial environment not as a single event but a slow motion process lasting over hundreds of millions of years Finally the book provides a roadmap as to how the FAR DEEP cores may facilitate future interesting science and provide a new foundation for education in earth science community Welcome to the illustrative journey through one of the most exciting periods of planet Earth

A Synthesis of Depositional Sequence of the Proterozoic Vindhyan Supergroup in Son Valley Subir Sarkar,Santanu Banerjee,2019-08-31 This book offers extensive information on the course of sedimentation in the Proterozoic Vindhyan Basin and the potential record of ancient life stored within the rocks It covers topics ranging from facies analysis to sequence building from carbonates to siliciclastics and mixed lithology and life records from microbial to potentially eukaryotes along with the basin evolutionary history Further the book includes 75 color photographs and accompanying hand sketches to help readers grasp key aspects of Vindhyan Geology Vindhyan rocks are well known for their excellent preservation of microbial record of earth Offering a student friendly field guide containing detailed route maps geological maps and a wealth of visual examples it is also extremely useful in terms of understanding the microbe dominated



environments on Mars      Sediments, Morphology and Sedimentary Processes on Continental Shelves Michael Z. Li, Christopher R. Sherwood, Philip R. Hill, 2012-02-21 The application of multibeam and sediment transport measurement technologies and the adoption of multi faceted research methodologies have greatly advanced our understanding of the sedimentary processes on continental shelves in the last decade This book uniquely blends cutting edge research and state of the art review articles that take stock of new advances in multibeam mapping and sediment transport technologies spatial analysis and modelling and the applications of these advances to the understanding of shelf sediments morphodynamics and sedimentary processes Case studies are also presented to illustrate the utilization of seabed property and process knowledge in habitat mapping and ocean management With its mix of papers focusing on technological advances integration of shelf morphology and processes and the application of these advances to coastal and ocean management this Special Publication volume will serve as a milestone reference for professional marine scientists and as advanced text for students in marine geology sedimentology and oceanography This book is part of the International Association of Sedimentologists IAS Special Publications The Special Publications from the IAS are a set of thematic volumes edited by specialists on subjects of central interest to sedimentologists Papers are reviewed and printed to the same high standards as those published in the journal *Sedimentology* and several of these volumes have become standard works of reference      **West Gondwana** Robert J. Pankhurst, 2008

Microbial Mats Joseph Seckbach, Aharon Oren, 2010-07-17 This book provides information about microbial mats from early fossils to modern mats located in marine and terrestrial environments Microbial mats layered biofilms containing different types of cells are most complex systems in which representatives of various groups of organisms are found together Among them are cyanobacteria and eukaryotic phototrophs aerobic heterotrophic and chemoautotrophic bacteria protozoa anoxygenic photosynthetic bacteria and other types of microorganisms These mats are perfect models for biogeochemical processes such as the cycles of chemical elements in which a variety of microorganisms cooperate and interact in complex ways They are often found under extreme conditions and their study contributes to our understanding of extremophilic life Moreover microbial mats are models for Precambrian stromatolites the study of modern microbial mats may provide information on the processes that may have occurred on Earth when prokaryotic life began to spread

**Glacial Sedimentary Processes and Products** Michael J. Hambrey, Poul Christoffersen, Neil F. Glasser, Bryn Hubbard, 2009-03-05 Associating ice masses with the transport and deposition of sediments has long formed a central theme in glaciology and glacial geomorphology The reason for this focus is clear in that ice masses are responsible for much of the physical landscape which characterizes the Earth's glaciated regions This association also holds at a variety of scales for example from the grain size characteristics of small scale moraines to the structural architecture of large scale glacially deposited sedimentary sequences in both surface and subaqueous environments This volume brings numerous state of the art research contributions together each relating to a different physical setting spatial scale process or investigative technique The result is

a diverse and interesting collection of papers by glaciologists, numerical modellers and glacial geologists which are all linked by the theme of investigating the relationships between the behaviour of ice masses and their resulting sedimentary sequences

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