

# The Proterozoic Biosphere

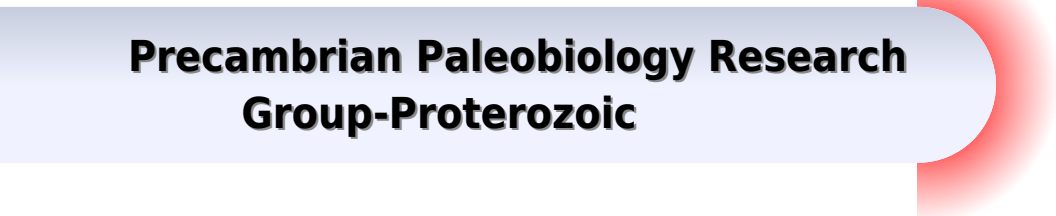
A Multidisciplinary Study (Part 2)

*Edited by*  
J. William Schopf  
Cornelis Klein

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# Proterozoic Biosphere A Multidisciplinary Study

**Precambrian Paleobiology Research  
Group-Proterozoic**



## **Proterozoic Biosphere A Multidisciplinary Study:**

The Proterozoic Biosphere J. William Schopf, Cornelis Klein, 1992-06-26 First published in 1992 The Proterozoic Biosphere was the first major study of the paleobiology of the Proterozoic Earth *The Proterozoic Biosphere* Precambrian Paleobiology Research Group-Proterozoic, **The Ecology of Cyanobacteria** B.A. Whitton, M. Potts, 2007-05-08 Cyanobacteria make a major contribution to world photosynthesis and nitrogen fixation but are also notorious for causing nuisances such as dense and often toxic blooms in lakes and the ocean The Ecology of Cyanobacteria Their Diversity in Time and Space is the first book to focus solely on ecological aspects of these organisms Its twenty two chapters are written by some thirty authors who are leading experts in their particular subject The book begins with an overview of the cyanobacteria or blue green algae for those who are not specialists then looks at their diversity in the geological record and goes on to describe their ecology in present environments where they play important roles Why is one of the key groups of organisms in the Precambrian still one of the most important groups of phototrophs today The importance of ecological information for rational management and exploitation of these organisms for commercial and other practical purposes is also assessed Accounts are provided of nuisances as well as the ecology of the commercially successful *Spirulina* and the role of cyanobacteria in ecosystem recovery from oil pollution Many chapters include aspects of physiology biochemistry geochemistry and molecular biology where these help general understanding of the subject In addition there are three chapters dealing specifically with molecular ecology Thirty two pages of colour photos incorporate about seventy views and light micrographs These features make the book valuable to a wide readership including biologists microbiologists geologists water managers and environmental consultants The book complements the highly successful *The Molecular Biology of Cyanobacteria* already published by Kluwer Thermophiles: Biodiversity, Ecology, and Evolution Anna-Louise Reysenbach, Mary Voytek, Rocco Mancinelli, 2012-12-06 These are indeed exciting times to be a microbiologist With one of the buzzwords of the past decade Biodiversity and microbes are reveling in the attention as they represent by far most of the biodiversity on Earth Microbes can thrive in almost any environment where there is an exploitable energy source and as a result the possible existence of microbial life elsewhere in the solar system has stimulated the imaginations of many Extremophiles have taken center stage in these investigations and thermophiles have taken on the lead roles Consequently in the past decade there has been a surge of interest and research in the Ecology Biology and Biotechnology of microorganisms from thermal environments Many of the foundations of thermophile research were laid in Yellowstone National Park primarily by the research of Professor Thomas Brock's laboratory in the late 1960s and early 1970s The upper temperature for life was debated the first thermophilic archaeum discovered although it was only later shown to be an archaeum by ribosomal cataloging and the extremes of light temperature pH on the physiology of microorganisms were explored Interest in thermophiles increased steadily in the 1970s and with the discovery of deep sea hydrothermal vents in 1977 thermophilic

research began its exponential explosion The development of Taq polymerase in the polymerase chain reaction PCR focused interest on the biotechnological potential of thermophilic microorganisms and on the thermal features in Yellowstone National Park *Geochemical Investigations in Earth and Space Sciences* R.J. Hill, J. Leventhal, Z. Aizenshtat, M.J.

Baedecker, G. Claypool, R. Eganhouse, M. Goldhaber, K. Peters, 2004-06-16 This volume is the product of a technical session organized for the 2002 Geological Society of America Annual Meeting in recognition of Isaac Kaplan's many contributions to various fields of geochemistry As Kaplan enters his sixth decade of scientific investigation it is fair to say that his work has touched or influenced innumerable scientists either directly or indirectly Readers of this volume are presented with a collection of 29 papers written by former students post doctoral researchers friends and colleagues from countries all over the world including Sweden Japan Taiwan New Zealand Australia Israel and the United States from the fields of stable isotope forensic environmental and petroleum geochemistry atmospheric chemistry and cosmochemistry The stable isotope section includes papers investigating climate change diagenesis recent sediment and petroleum geochemistry and cosmochemistry problems The forensic and environmental geochemistry section includes a variety of papers ranging from trace metals in soils to atmospheric CO<sub>2</sub> projections The petroleum geochemistry section includes both basic research and applied geochemistry papers The ancient and recent sediments section contains papers ranging from carbon flux in modern sediments to Precambrian microfossils All of the articles together cover a broad range of geochemical studies and represent the diverse and distinguished career of Isaac Kaplan *Publications of the Exobiology Program for 1988 ,1990* 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

**Ecology of Cyanobacteria II** Brian A. Whitton, 2012-07-05 Cyanobacteria have existed for 3.5 billion years yet they are still the most important photosynthetic organisms on the planet for cycling carbon and nitrogen The ecosystems where they have key roles range from the warmer oceans to many Antarctic sites They also include dense nuisance growths

in nutrient rich lakes and nitrogen fixers which aid the fertility of rice fields and many soils especially the biological soil crusts of arid regions Molecular biology has in recent years provided major advances in our understanding of cyanobacterial ecology Perhaps for more than any other group of organisms it is possible to see how the ecology physiology biochemistry ultrastructure and molecular biology interact This all helps to deal with practical problems such as the control of nuisance blooms and the use of cyanobacterial inocula to manage semi desert soils Large scale culture of several organisms especially *Spirulina* *Arthrospira* for health food and specialist products is increasingly being expanded for a much wider range of uses In view of their probable contribution to past oil deposits much attention is currently focused on their potential as a source of biofuel Please visit <http://extras.springer.com> to view Extra Materials belonging to this volume This book complements the highly successful *Ecology of Cyanobacteria* and integrates the discoveries of the past twelve years with the older literature

**The Proterozoic Biosphere** J. William Schopf, Cornelis Klein, 2011      **Global Events and Event Stratigraphy in the Phanerozoic** Otto H. Walliser, 2012-12-06 The existence of rapid and even catastrophic turnovers within the Phanerozoic ecosystems has been discussed controversially for more than 170 years Since 1980 this discussion has become even more intensive after the hypothesis of Alvarez explaining the end Cretaceous mass extinction as the result of a huge asteroid impact on the Earth This theory stimulated several thousand papers and is still controversial The international research programme on Global Biological Events in Earth History attempts to bring the discussion back to the facts by using multidisciplinary investigations of the major Phanerozoic events The results of an international group of experts are presented giving a wealth of information and a thorough discussion of the causes of the various global events      **Frontiers of Life** J. Thanh Van Tran, 1992      **Archean Crustal Evolution** K.C. Condie, 1994-11-11 The integration of Tectonics Geochemistry up to date reviews by leading scientists as well as a broad topical coverage of the Archean are some of the features of this particular volume As geochronology has progressed in the last 20 years the Archean has continued to attract interest Advancements in the understanding of Archean crustal and mantle evolution have progressed rapidly since the first International Archean Symposium in Western Australia 1970 The landmark for the Archean was the NATO Advanced Study Institute at Leicester 1975 At this meeting the Archean truly came of age Investigators from many different disciplines focused their expertise on the early history of the earth For the first time the nature of the atmosphere oceans and life during the Archean was an important part of an Archean symposium During the most recent Archean Symposium in Perth in 1990 there was a shift in interest from field and trace element data to the new rapidly evolving high precision U Pb geochronology of Archean rocks and to detailed structural studies of both low and high grade Archean terrains The terrane concept so widely applied to the Phanerozoic was proposed for the Archean Yilgarn Province in Western Australia and is now widely accepted for the Archean as evident by the articles in this book Plate tectonics is now widely accepted as the principal process that controls the history of continents and oceans There are though well substantiated differences between Archean

and post Archean rocks that indicate that Archean tectonic regimes must have differed in some respects from modern ones. The question of how and to what degree did Archean plate tectonics differ from modern plate tectonics is treated in many of the chapters of this book. Altogether the editor has presented a selection of articles that provide a fascinating insight into the latest observations in this field.

**Stable Isotope Geochemistry** John W. Valley, David R. Cole, 2018-12-17. Volume 43 of *Reviews in Mineralogy and Geochemistry* follows the 1986 *Reviews in Mineralogy* Vol 16 in approach but reflects significant changes in the field of Stable Isotope Geochemistry. In terms of new technology, new sub disciplines and numbers of researchers, the field has changed more in the past decade than in any other since that of its birth. Unlike the 1986 volume which was restricted to high temperature fields, this book covers a wider range of disciplines. However, it would not be possible to fit a comprehensive review into a single volume. Our goal is to provide state of the art reviews in chosen subjects that have emerged or advanced greatly since 1986. This volume was prepared for Short Course on Stable Isotope Geochemistry presented November 2-4, 2001 in conjunction with the annual meetings of the Geological Society of America in Boston, Massachusetts.

**Early Life on Earth** Stefan Bengtson, 1994. This study is organized around three themes: the origin and early diversification of life during the Archean Eon, the maturation of life and the Earth during the long Proterozoic Eon, and the explosive diversification of multicellular life that marks the dawn of the Phanerozoic Eon. The contributors discuss the coherence of history, the combinatorial generation of taxonomic diversity, early Metazoan evolution, and the Cambrian explosion.

*Interpretation of Biological and Environmental Changes Across the Neoproterozoic-Cambrian Boundary* L.E. Babcock, 2005-11-30. The Neoproterozoic-Cambrian transition was a time of fundamental change in the biosphere. Between about 570 and 510 million years ago, marine organisms underwent considerable evolutionary innovation during a time of shifting ecological setting. This dramatic activity culminated in the first stratigraphic appearances of many recognizable groups of animals, an event often referred to as the Cambrian explosion. In addition, there was a major change from a microbial mat dominated sediment-water interface to a more extensively burrowed interface in shallow marine settings. The early fossil record is a function not only of the rise or ecological diversification of marine organisms but also the development of taphonomic and sedimentary conditions suitable for the preservation of mineralizing and nonmineralizing organisms. This book is devoted to an exploration of some of the emerging concepts and techniques used to develop greater insight into the early record of biologic diversification and the preservational record of that diversification during the Neoproterozoic-Cambrian transition. Addresses key issues related to the Cambrian diversification of multicellular animals. Provocative new ideas about the factors involved in the exceptional preservation of fossils with a balance between the development of ideas and hypothesis testing. Broad coverage of topics related to the Cambrian diversification of animals and the fossil record of that diversification. Broad geographic coverage.

**NASA Technical Memorandum**, 1990.

**Major Events in the History of Life** J. William Schopf, 1992. Major Events in the History of Life presents six chapters that summarize our

understanding of crucial events that shaped the development of the earth's environment and the course of biological evolution over some four billion years of geological time. The subjects are covered by acknowledged leaders in their fields span an enormous sweep of biologic history from the formation of planet Earth and the origin of living systems to our earliest records of human activity. Several chapters present new data and new syntheses or summarized results of new types of analysis material not usually available in current college textbooks.

**The Ecology of the Cambrian Radiation** Robert Riding, 2001. The Cambrian radiation was the explosive evolution of marine life that started 550 000 000 years ago. It ranks as one of the most important episodes in Earth history. This key event in the history of life on our planet changed the marine biosphere and its sedimentary environment forever requiring a complex interplay of wide ranging biologic and nonbiologic processes. The Ecology of the Cambrian Radiation offers a comprehensive and surprising picture of the Earth at that ancient time. The book contains contributions from thirty three authors hailing from ten countries and will be of interest to paleontologists, geologists, biologists and other researchers interested in the global Earth life system.

**Evolution of Sameness and Difference** Stanley Shostak, 1999-08-19. An analysis of the problem of how the sameness and difference in living things are controlled normally in the course of development and maintenance and abnormally in the course of defective growth, tumours and cancer. Like everything else in life the biological sameness and difference in organisms has evolved. An understanding of this biological evolution will help control abnormalities such as those associated with birth defects and invasive destructive tumours.

**Early Organic Evolution** Manfred Schidlowski, Stjepko Golubic, Michael M. Kimberley, David M. McKirdy, Philip A. Trudinger, 2012-12-06. This volume is the final outcome of a conference designed to wrap up IOCP Project 157 Early Organic Evolution and Mineral and Energy Resources after a decade of prolific activity. The picturesque solitude of Maria Laach Abbey in the Eifel Mountains FRO provided the appropriate setting for a conclave of some 80 specialists from the various walks of the field who during the week of Sept 19-23 1988 strived hard to define the state of the art in the principal segments of this Earth Science frontier. The following pages contain the essence of the conference transactions giving a vivid cross section of the activities pursued by IOCP Project 157 during its final years. The coverage of topics is not necessarily complete but rather eclectic in part. With regard to single papers dealing with modern analogues of ancient processes the book title might even be considered a grave misnomer. Nevertheless all contributions relate to the subject in the widest sense and the reader should be reminded that much of the heterogeneity reflected by the volume derives from the fact that it is primarily a research report from a highly interdisciplinary field rather than a textbook.

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