The Proterozoic Biosphere

A Multidisciplinary Study (Part 2)

Edited by

J. William Schopf Cornelis Klein

Proterozoic Biosphere A Multidisciplinary Study

John W. Valley, David R. Cole

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 **Publications of the Exobiology Program for 1988**, 1990

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 CO2 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 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 archeum discovered although it was only later shown to be an archeum by ribosomal cataloging and the extremes of light temperature pH on the physiology of microorga nisms 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 expo nential explosion The development of Tag polymerase in the polymerase chain reaction peR focused interest on the biotechnological potential of thermophilic microorganisms and on the thermal features in Yellowstone **The Proterozoic Biosphere** J. William Schopf, Cornelis Klein, 2011 National Park **Frontiers of Life** I. Thanh Van Tran,1992 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 NASA Technical Memorandum ,1990 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 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 Interpretation of Biological and Environmental Changes Across the Metazoan evolution and the Cambrian explosion 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 in the History of Life J. William Schopf, 1992 Major Events in the History of Life present 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 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 Early Organic Evolution Manfred Schidlowski, Stjepko Golubic, Michael M. invasive destructive tumours 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 eclec tic in part With regard to single papers dealing with modern

analogues of ancient processes the book title might even be considered a grave misnomer Neverthe less 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 de rives from the fact that it is primarily a research report from a highly inter disciplinary field rather than a textbook

Precambrian Paleontology Juliana Leme, Shuhai Xiao, Dermeval Aparecido Do Carmo, 2022-09-29 Chemical Evolution: Structure and Model of the First Cell Cyril Ponnamperuma, Julian Chela-Flores, 1995-07-31 This interdisciplinary book consists of the proceedings of the Alexander Ivanovich Oparin lOOth Anniversary Conference The Third Trieste Conference on Chemical Evolution which took place at the International Centre for Theoretical Physics from 29 August till 2 September 1994 A general overview of Oparin s life and work is followed by a review of Alfonso Herera another pioneer in the studies of the origin of life The subject matter is organized in ten sections corresponding to various aspects of our current understanding of the subject that was initiated by Oparin These subjects were covered by fifty three speakers There were sixty seven participants from a wide geographical distribution twenty seven countries were represented We have included the invited lecture of Professor Igor Kulaev who was unable to be present at the conference for reasons beyond his control The conference was generously supported by the International Centre for Theoretical Physics the Commission of the European Communities the International Centre for Genetic Engineering and Biotechnology the International Centre for Science and High Technology and UNESCO Cyril Ponnamperuma University of Maryland U S A Julian Chela Flores ICTP Italy and IDEA Venezuela xi FOREWORD As this volume was going to press we learnt of the untimely death of Cyril Ponnamperuma who died of cardiac arrest on December 20 1994

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