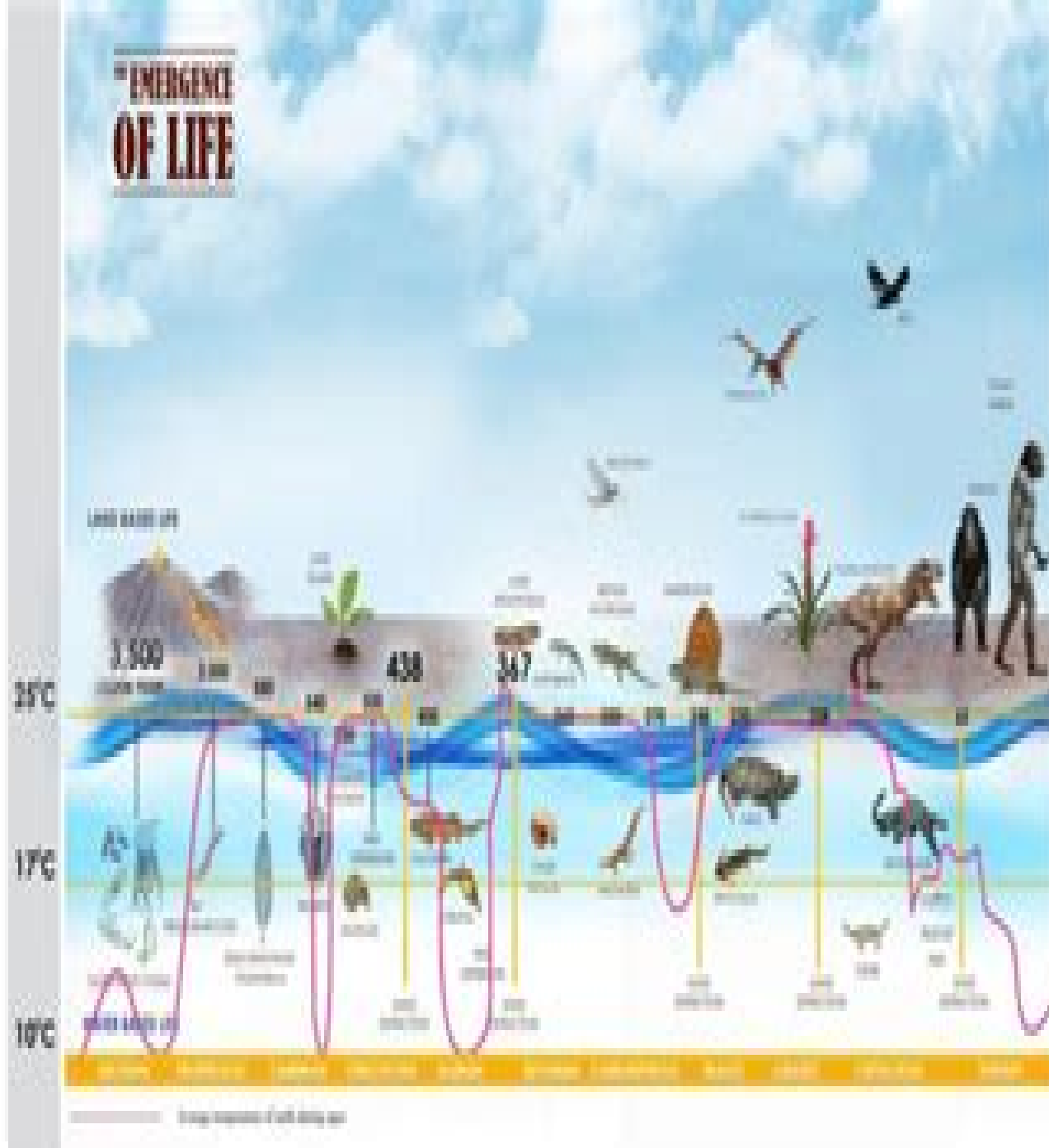


"EMERGENCE OF LIFE"



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David C. Catling,James F. Kasting



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The ^ATouchstone of Life Werner R. Loewenstein,1999-01-07 No one can escape a sense of wonder when looking at an organism from within From the humblest amoeba to man from the smallest cell organelle to the amazing human brain life presents us with example after example of highly ordered cellular matter precisely organized and shaped to perform coordinated functions But where does this order spring from How does a living organism manage to do what nonliving things cannot do bring forth and maintain all that order against the unrelenting disordering pressures of the universe In The Touchstone of Life world renowned biophysicist Werner Loewenstein seeks answers to these ancient riddles by applying information theory to recent discoveries in molecular biology Taking us into a fascinating microscopic world he lays bare an all pervading communication network inside and between our cells a web of extraordinary beauty where molecular information flows in gracefully interlaced circles Loewenstein then takes us on an exhilarating journey along that web and we meet its leading actors the macromolecules and see how they extract order out of the erratic quantum world and through the powerful lens of information theory we are let in on their trick the most dazzling of magician s acts whereby they steal form out of formlessness The Touchstone of Life flashes with fresh insights into the mystery of life Boldly straddling the line between biology and physics the book offers a breathtaking view of that hidden world where molecular information turns the wheels of life Loewenstein makes these complex scientific subjects lucid and fascinating as he sheds light on the most fundamental aspects of our existence *Earth's Early Atmosphere and Oceans, and The Origin of Life* George H. Shaw,2015-10-07 This book provides a comprehensive treatment of the chemical nature of the Earth s early surface environment and how that led to the origin of life This includes a detailed discussion of the likely process by which life emerged using as much quantitative information as possible The emergence of life and the prior surface conditions of the Earth have implications for the evolution of Earth s surface environment over the following 2 2 5 billion years The last part of the book discusses how these changes took place and the evidence from the geologic record that supports this particular version of early and evolving conditions **Early Life on Earth** Kenichiro Sugitani,2022-03-07 This book comprehensively explores the early evolution of life and the Archean environment Topics include the differences between prokaryotes and eukaryotes variations in metabolisms concepts of ecosystems and biogeochemical cycles nitrogen sulfur phosphorous Archean geology and environments and the widely accepted early evolutionary history of life The text addresses controversies regarding early life and its environment particularly the unusual microfossil assemblages from the 3 4 Ga Strelley Pool Formation and the 3 0 Ga Farrel Quartzite of Western Australia Readers will get a fuller picture of the Archean world and an appreciation of many still unresolved questions Key Features Illustrated with figures visualizing ecosystems biogeochemical cycles etc which are indispensable for understanding the Archean Earth Includes tables arranging key words definitions and interpretations Documents the Archean environment with photographic evidence and detailed descriptions

the rocks minerals and microfossils Summarizes the latest field research Details exciting unresolved questions for future study How Molecular Forces and Rotating Planets Create Life Jan Spitzer,2021-02-09 A reconceptualization of origins research that exploits a modern understanding of non covalent molecular forces that stabilize living prokaryotic cells Scientific research into the origins of life remains exploratory and speculative Science has no definitive answer to the biggest questions What is life and How did life begin on earth In this book Jan Spitzer reconceptualizes origins research by exploiting a modern understanding of non covalent molecular forces and covalent bond formation a physicochemical approach propounded originally by Linus Pauling and Max Delbr ck Spitzer develops the Pauling Delbr ck premise as a physicochemical jigsaw puzzle that identifies key stages in life s emergence from the formation of first oceans tidal sediments and proto biofilms to progenotes proto cells and the first cellular organisms **Origin of Life** Y. Wolman,1981-02-28 Proceedings of the Third ISSOL Meeting and the Sixth ICOL Meeting Jerusalem 22 27 June 1980 *Handbook of Astrobiology* Vera M. Kolb,2018-12-07 Choice Recommended Title August 2019 Read an exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow in importance in the decades ahead

Origin of Life via Archaea Richard Gordon,2024-10-01 This book surveys the models for the origin of life and presents a new model starting with shaped droplets and ending with life as polygonal Archaea it collects the most published micrographs of Archaea discovered only in 1977 which support this conclusion and thus provides the first visual survey of Archaea Origin of Life via Archaea s purpose is to add a new hypothesis on what are called shaped droplets as the starting point for flat polygonal Archaea supporting the Vesicles First hypothesis The book contains over 6000 distinct references and micrographs of 440 extant species of Archaea 41% of which exhibit polygonal phenotypes It surveys the intellectual battleground of the many ideas of the origin of life on earth chemical equilibrium autocatalysis and biotic polymers This book contains 17 chapters some coauthored on a wide range of topics on the origin of life including Archaea s origin patterns and species It shows how various aspects of the origin of life may have occurred at chemical equilibrium not requiring an energy source contrary to the general assumption For the reader s value its compendium of Archaea micrographs might also serve many other interesting questions about Archaea One chapter presents a theory for the shape of flat polygonal Archaea in

terms of the energetics at the surface edges and corners of the S layer Another shows how membrane peptides may have originated The book also includes a large table of most extant Archaea that is searchable in the electronic version It ends with a chapter on problems needing further research Audience This book will be used by astrobiologists origin of life biologists physicists of small systems geologists biochemists theoretical and vesicle chemists

The Geologic Time Scale 2012 F M Gradstein, 2012-08-14 The Geologic Time Scale 2012 winner of a 2012 PROSE Award Honorable Mention for Best Multi volume Reference in Science from the Association of American Publishers is the framework for deciphering the history of our planet Earth The authors have been at the forefront of chronostratigraphic research and initiatives to create an international geologic time scale for many years and the charts in this book present the most up to date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences This 2012 geologic time scale is an enhanced improved and expanded version of the GTS2004 including chapters on planetary scales the Cryogenian Ediacaran periods systems a prehistory scale of human development a survey of sequence stratigraphy and an extensive compilation of stable isotope chemostratigraphy This book is an essential reference for all geoscientists including researchers students and petroleum and mining professionals The presentation is non technical and illustrated with numerous colour charts maps and photographs The book also includes a detachable wall chart of the complete time scale for use as a handy reference in the office laboratory or field The most detailed international geologic time scale available that contextualizes information in one single reference for quick desktop access Gives insights in the construction strengths and limitations of the geological time scale that greatly enhances its function and its utility Aids understanding by combining with the mathematical and statistical methods to scaled composites of global succession of events Meets the needs of a range of users at various points in the workflow researchers extracting linear time from rock records students recognizing the geologic stage by their content

Prebiotic Chemistry and Life's Origin Michele Fiore, 2022-06-29 How life originated from the inanimate mixture of organic and inorganic compounds on the primordial earth remains one of the great unknowns in science This origin of life or abiogenesis continues to be examined in the context of the conditions and materials required for natural life to have begun on Earth both theoretically and experimentally This book provides a broad but in depth analysis of the latest discoveries in prebiotic chemistry from the microscopic to the macroscopic scale utilising experimental insight to provide a bottom up approach to plausibly explaining how life arose With contributions from global leaders this book is an ideal reference for postgraduate students and a single source of comprehensive information on the latest technical and theoretical advancements for researchers in a variety of fields from astrochemistry and astrophysics to organic chemistry and evolution

Earth's Oldest Rocks Martin J. Van Kranendonk, Vickie Bennett, Elis Hoffmann, 2018-09-26 Earth's Oldest Rocks Second Edition is the only single reference source for geological research of early Earth This new edition is an up to date collection of scientific articles on all aspects of the early history of the Earth from planetary accretion at 4.567 billion

years ago Ga to the onset of modern style plate tectonics at 3.2 Ga. Since the first edition was published significant new advances have been made in our understanding of events and processes on early Earth that correspond with new advances in technology. The book includes contributions from over 100 authors all of whom are experts in their respective fields. The research in this reference concentrates on what is directly gleaned from the existing rock record to understand how our planet formed and evolved during the planetary accretion phase, formation of the first crust, the changing dynamics of the mantle and style of tectonics, life's foothold and early development and mineral deposits. It is an ideal resource for academics, students and the general public alike. Advances in early Earth research since 2007 based primarily on evidence gleaned directly from the rock record. More than 50% of the chapters in this edition are new and the rest of the chapters are revised from the first edition with more than 700 pages of new material. Comprehensive reviews of areas of ancient lithosphere from all over the world and of crust forming processes. New chapters on early solar system materials, composition of the ancient atmosphere, hydrosphere and overviews of the oldest evidence of life on Earth and modeling of early Earth tectonics.

Atmospheric Evolution on Inhabited and Lifeless Worlds David C. Catling, James F. Kasting, 2017-04-13. As the search for Earth-like exoplanets gathers pace in order to understand them we need comprehensive theories for how planetary atmospheres form and evolve. Written by two well-known planetary scientists, this text explains the physical and chemical principles of atmospheric evolution and planetary atmospheres in the context of how atmospheric composition and climate determine a planet's habitability. The authors survey our current understanding of the atmospheric evolution and climate on Earth, on other rocky planets within our Solar System and on planets far beyond. Incorporating a rigorous mathematical treatment, they cover the concepts and equations governing a range of topics including atmospheric chemistry, thermodynamics, radiative transfer and atmospheric dynamics and provide an integrated view of planetary atmospheres and their evolution. This interdisciplinary text is an invaluable one-stop resource for graduate-level students and researchers working across the fields of atmospheric science, geochemistry, planetary science, astrobiology and astronomy.

Evolutionary Theory and Processes: Modern Horizons Solomon P. Wasser, 2013-03-09. Evolution is the most profound of human ideas integrating all natural phenomena, cosmic, biological and cultural into a continuous universal change. This volume deals with evolutionary observations, experiments and theories contributing to a deeper understanding of the evolutionary process, honoring the 75th birthday of Eviatar Eibi Nevo. I first met Eibi in 1966 when he was a Fellow in the Museum of Comparative Zoology at Harvard University and working mostly on cricket frog vocalization and speciation in the United States. His unique discovery of pipid fossil frogs in the Israeli Early Cretaceous central Negev is possibly the largest world collection of ancient fossil frogs. Our acquaintance developed into mutual friendship and admiration. Since then our long-lasting friendship has included a visit to Israel enabling me to follow Eibi's major scientific achievements in particular his founding of the Institute of Evolution in the University of Haifa and now the pending establishment of the International

Graduate School of Evolution The research program of Eibi Nevo in collaboration with numerous colleagues and students in Israel and across the world encompasses diverse perspectives of evolutionary biology and biodiversity of genes populations species and ecosystems integrating modern and classical evolutionary approaches molecular and organismal They deal with model organisms in all forms from bacteria through plants fungi animals and humans conducted over local regional and global scales

From Stars to Brains: Milestones in the Planetary Evolution of Life and Intelligence Andrew Y. Glikson, 2019-02-18 The permutation of basic atoms nitrogen hydrogen oxygen carbon and phosphorus into the biomolecules DNA and RNA subsequently evolved in cells and brains defining the origin of life and intelligence remains unexplained Equally the origin of the genetic information and the intertwined nature of hardware and software involved in the evolution of bio molecules and the cells are shrouded in mystery This treatise aims at exploring individual and swarm behaviour patterns which potentially hint at as yet unknown biological principles It reviews theories of evolution with perspectives from the earth sciences commencing with the earliest observed records of life This is followed by reviews and discussion of the building blocks of life marine and terrestrial communities the arthropods birds and finally humans It is suggested that further to the mutation natural selection processes established by Darwin and Wallace an understanding of the evolution of intelligence remains little understood A directionality of evolutionary trajectories is evident not least the purposeful thinking process of humans as well as animals It is not clear how directional intelligence manifested for example by the collective intelligence of arthropod colonies has evolved from mutation natural selection processes Potential clues for the understanding of life and evolution are provided by Aristotle's dictum of the whole being greater than the sum of the parts Niels Bohr's principle of quantum complementarity and George Ellis theory of top down causality Inherent in the question of the origin of life is an anthropocentric bias related to the self referential Anthropic Principle and theological paradigms of man's supposed dominion over all other species The Anthropic Principle however should be capable of being circumvented using the scientific falsification method assuming universal verified constants of physics The phenomenon of the human mastery of fire and the splitting of the atom leading to the seventh major mass extinction of species remains incomprehensible

Reviews in astronomy and space sciences Christopher H. K. Chen, Alberto Fairén, Jonathan Eastwood, Olga V. Khabarova, Georgios Balasis, Rudolf A. Treumann, Philip J. Erickson, Nuno C. Santos, Steve B. Howell, Matthew Parry, Daniel Hestroffer, Yanxia Zhang, Majdi Hochlaf, Ankan Das, Ryan C. Fortenberry, David Leisawitz, Lucia Kleint, Mauro D'Onofrio, Milan S. Dimitrijevic, Joseph M. Trigo-Rodriguez, Carrie Anderson, Zhonghua Yao, Chunshan Lin, Nadja S. Magalhaes, Guillem Domenech, 2024-05-24

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met Eibi in 1966 when he was a Fellow in the Museum of Comparative Zoology at Harvard University and working mostly on cricket frog vocalization and speciation in the United States His unique discovery of pipid fossil frogs in the Israeli Early Cretaceous central Negev is possibly the largest world collection of ancient fossil frogs Our acquaintance developed into mutual friendship and admiration Since then our long lasting friendship has included a visit to Israel enabling me to follow Eibi s major scientific achievements in particular his founding of the Institute of Evolution in the University of Haifa and now the pending establishment of the International Graduate School of Evolution The research program of Eibi Nevo in collaboration with numerous colleagues and students in Israel and across the world encompasses diverse perspectives of evolutionary biology and biodiversity of genes populations species and ecosystems integrating modern and classical evolutionary approaches molecular and organismal They deal with model organisms in all forms from bacteria through plants fungi animals and humans conducted over local regional and global scales

Biological Innovations that Built the World Roberto Ligrone, 2019-05-29 The book is a detailed account of major biological events that contributed to create the present world and our species with emphasis on cause effect interrelationships and environmental impact Its main goal is to guide the reader toward an understanding of the continuity of life across diversity and of its large scale interactions with the planet Combining scientific soundness with a constant effort for clarity the book begins with a cloud of dust in a corner of the Galaxy and covering an immense lapse of time terminates with an organism that ponders about the texture of the Universe Comprehensive updated references added to each chapter will help the reader wishing to expand any of the topics A glossary explains less common technical terms

Intelligent Life in the Universe Peter Ulmschneider, 2005-02-23 This book addresses all scientists and others interested in the origins development and fate of intelligent species in the observable part of our universe In particular the author scrutinizes what kind of information about extraterrestrial intelligent life can be inferred from our own biological cultural and scientific evolution and the likely future of mankind The first part of the book provides the necessary background information from space and life sciences thus making the book also accessible to students and the scientifically educated public In this second edition of Peter Ulmschneider s successful and highly interesting book the author is putting even stronger emphasis on the geological conditions and consequences of life s conquest of land as the pre condition for the emergence of life with our type of technical intelligence

The Cnidaria, Past, Present and Future Stefano Goffredo, Zvy Dubinsky, 2016-09-07 This volume presents a broad panorama of the current status of research of invertebrate animals considered belonging to the phylum Cnidaria such as hydra jellyfish sea anemone and coral In this book the Cnidarians are traced from the Earth s primordial oceans to their response to the warming and acidifying oceans Due to the role of corals in the carbon and calcium cycles various aspects of cnidarian calcification are discussed The relation of the Cnidaria with Mankind is approached in accordance with the Editors philosophy of bridging the artificial schism between science arts and Humanities Cnidarians encounters with humans result in a broad spectrum of medical emergencies that are

reviewed The final section of the volume is devoted to the role of Hydra and Medusa in mythology and art Encyclopedia of Astrobiology Muriel Gargaud,Ricardo Amils,2011-05-26 Astrobiology is a remarkably interdisciplinary field This reference serves as a key to understanding technical terms from the different subfields of astrobiology including astronomy biology chemistry the geosciences and the space sciences Perspectives in Astrobiology Richard B. Hoover,Roland Paepe,2005

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