

Geologic Time Scale

| Eon | Era | Period | Dates (MYA) | Significant Events |
|-------------|-----------|---------------|--------------|---|
| Hadean | — | — | 4,600–4,000 | Formation of Earth and Moon, heavy bombardment. |
| Archean | — | — | 4,000–2,500 | Formation of Earth's crust, first life (prokaryotes). |
| Proterozoic | — | — | 2,500–541 | Oxygenation of the atmosphere, first eukaryotes. |
| Phanerozoic | Paleozoic | Cambrian | 541–485 | Cambrian Explosion of life. |
| | | Ordovician | 485–444 | First land plants, marine biodiversity. |
| | | Silurian | 444–419 | First jawed fish, vascular plants. |
| | | Devonian | 419–359 | Age of Fish, first amphibians. |
| | | Carboniferous | 359–299 | Coal swamps, first reptiles. |
| | | Permian | 299–252 | Pangaea forms, mass extinction. |
| Phanerozoic | Mesozoic | Triassic | 252–201 | First dinosaurs, mammals. |
| | | Jurassic | 201–145 | Age of Dinosaurs, first birds. |
| | | Cretaceous | 145–66 | Flowering plants, mass extinction. |
| Phanerozoic | Cenozoic | Paleogene | 66–23 | Mammals diversify. |
| | | Neogene | 23–2.58 | First hominins. |
| | | Quaternary | 2.58–Present | Ice Ages, rise of humans. |

Section 12 4 The Geologic Time Scale Cheats

Robert M. Schoch



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The Geologic Time Scale 2012 Felix Gradstein, J.G. Ogg, Mark D. Schmitz, Gabi M. Ogg, 2012-09-01 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 [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 [Deciphering Earth's History: the Practice of Stratigraphy](#) Angela Coe, 2022-11-08 Stratigraphy allows us to establish and communicate the timings for the course of Earth history and provides the means to determine the duration and rates of Earth processes Deciphering Earth's History the Practice of Stratigraphy focuses on how to apply the wide spectrum of stratigraphical techniques It also explains how these techniques can be integrated and details their individual strengths and limitations Chapters are laid out in a step

by step style guiding the reader through a recommended approach and explaining the factors to be considered The methods are illustrated with flow charts marginal top tips checklists worked examples and over 200 figures Authors from academia research centres and industry have contributed to ensure a wide range of perspectives are included In addition to chapters on each of the stratigraphical techniques there is also material on accounting for stratigraphical incompleteness constructing geological timescales handling and archiving stratigraphical data and the application of stratigraphy to space exploration and other disciplines This book is designed for a wide audience ranging from advanced level undergraduates to professional practitioners wishing to use other stratigraphical techniques or understand the advantages and weaknesses of particular techniques

Principles of Sedimentology and Stratigraphy Sam Boggs,2001 A text for the combined sedimentology stratigraphy course or can be used for separate courses offered in the geosciences at the junior level and up Covers processes that form sedimentary rocks describes the important physical chemical biological and stratigraphic characteristics of these rocks and interprets depositional environments

Basics of Physical Stratigraphy and Sedimentology William J. Fritz,Johnnie N. Moore,1988-02-12 This concise volume offers one of the few modern treatments of stratigraphy and sedimentology featuring the use of the stratigraphic code and an analysis of the history of geology in the development of stratigraphic principles Covers important processes that form sedimentary rocks explains the interpretation of rock sequences from outcrop scale to regional stratigraphic packages and synthesizes rock and sedimentary structure classification schemes Presents the basic tools for interpreting sedimentary structures using a process approach to physical sedimentology and reveals stratigraphic relationships not found in other texts The text contains many illustrations which provide compilations of standard classifications hydrodynamic principles and processes of sedimentation recast in an easily understandable format

Stratigraphy Robert M. Schoch,1989

Geological Survey Professional Paper Geological Survey (U.S.),1993

Code of Federal Regulations ,1996

The Journal of the Assembly During the ... Session of the Legislature of the State of California California. Legislature. Assembly,1955

From Stardust to First Cells Sankar Chatterjee,2023-09-20 This book presents a groundbreaking hypothesis to answer one of the greatest scientific mysteries How did life begin Like a detective piecing together seemingly disparate bits of evidence Dr Sankar Chatterjee combines the most recent discoveries in cosmology geology chemistry information systems and biology weaving a vast tapestry from the threads of current research Dr Chatterjee convincingly argues that the odyssey of life first began when the fundamental building blocks were brought to Earth by meteorites These cosmic compounds concentrated and simmered like a soup in hydrothermal crater caldrons Through a system of subterranean vent networks a biosynthetic rich variety of organic compounds mixed and matched into a recipe of rich biomolecules guided by prebiotic information systems Through symbiosis these complex biopolymers gradually assemble into membrane bound protocells At each stage of this evolutionary progression through natural selection they refined with increasing stability and complexity ultimately leading to the

emergence of the first cells about four billion years ago In this book Dr Chatterjee tells this story in rigorous detail in language that is both accessible and engaging

The Code of Federal Regulations of the United States of America, 1982 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

Global Geological Record of Lake Basins: Volume 1 E. Gierlowski-Kordesch, K. Kelts, 2006-11-23 The sequence of sediments deposited in lakes forms an archive of a high resolution record of the changes and rates of changes in continental palaeoenvironments Global Geological Record of Lake Basins is the first in a short series of books containing concise geological summaries of lake basin deposits Geoscientists worldwide have co operated to bring together the information available on a global spectrum of lacustrine deposits looking in particular at palaeoenvironmental aspects The compilation has resulted from IGCP 219 Comparative Lacustrine Sedimentology in Space and Time which has given impetus to the field of limnogeology Lacustrine deposits are widespread throughout the geological record and this series of books will assess for every geological time window key lacustrine sequences worldwide in the form of short summaries of specific deposits A common language will be defined to describe these deposits

Radioactive Waste Management, 1988

Where the Great River Rises Rebecca A. Brown, 2009 A lavishly illustrated comprehensive interdisciplinary study of the natural and human elements that comprise the Upper Connecticut River watershed

Geologic Time Scale 2020 Felix Gradstein, James G. Ogg, Mark D. Schmitz, Gabi M. Ogg, 2020-10-30 Geologic Time Scale 2020 2 volume set contains contributions from 80 leading scientists who present syntheses in an easy to understand format that includes numerous color charts maps and photographs In addition to detailed overviews of chronostratigraphy evolution geochemistry sequence stratigraphy and planetary geology the GTS2020 volumes have separate chapters on each geologic period with compilations of the history of divisions the current GSSPs global boundary stratotypes detailed bio geochem sequence correlation charts and derivation of the age models The authors are on the forefront of chronostratigraphic research and initiatives surrounding the creation of an international geologic time scale The included charts display the most up to date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences As the framework for deciphering the history of our planet Earth this book is essential for practicing Earth Scientists and academics Completely updated geologic time scale Provides the most detailed integrated geologic time scale available that compiles and synthesizes information in one reference Gives insights on the construction strengths and limitations of the geological time scale that greatly enhances its function and its utility

Energy Information Act United States. Congress. Senate. Committee on Interior and Insular Affairs, 1974

The Arctic Climate System Mark C. Serreze, Roger G. Barry, 2005-10-13 The Arctic can be viewed as an integrated system characterised by intimate couplings between its atmosphere ocean and land linked in turn to the larger global system This comprehensive up to date assessment begins with an outline of early Arctic exploration and the growth of modern research

Using an integrated systems approach subsequent chapters examine the atmospheric heat budget and circulation the surface energy budget the hydrologic cycle and interactions between the ocean atmosphere and sea ice cover Reviews of recent directions in numerical modelling and the characteristics of past Arctic climates set the stage for detailed discussion of recent climate variability and trends and projected future states Throughout satellite remote sensing data and results from recent major field programs are used to illustrate key processes The Arctic Climate System provides a comprehensive and accessible overview of the subject for researchers and advanced students in a wide range of disciplines

North American Stratigraphic Code North American Commission on Stratigraphic Nomenclature,1983 *A Geologic Time Scale 1989* Walter Brian Harland,1990-06-29 A concentrated review of the time scales used in geology in order to date stratigraphic sequences and to define geological epochs It is the planned successor to A Geologic Timescale and adopts the same style and employs similar methods

Origins ,2001 Glorious panoramic photography by the author a specialist in interpretive landscape reveals the physical legacy of the Earth s distant past This exceptional book celebrates the inevitability of global change and highlights our need as human beings to recognize and adjust to it Color and b w illustrations

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