The Geological Time Table

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The Geological Time Table *2023-05-06*

CAMILLE MARQUEZ

A Geology of Media Elsevier Science
A synthesis of all that has been postulated and is known about the age of the Earth
Geological Monitoring Farrar, Straus and Giroux
Climate scientists, geologists, ecologists, and archaeologists recognize the profound effects of human activity on Earth, though whether and how this should be recognized as a formal geological epoch - the Anthropocene - remains under debate, Erle Ellis describes how the Anthropocene concept is affecting the sciences, humanities, and politics.
Encyclopedia of Lunar Science Cambridge University Press
"Geologic Monitoring is a practical, nontechnical guide for land managers, educators, and the public that synthesizes representative methods for monitoring short-term and long-term change in geologic features and landscapes. A prestigious group of subject-matter experts has carefully selected methods for monitoring sand dunes, caves and karst, rivers, geothermal features, glaciers, nearshore marine features, beaches and marshes, paleontological resources, permafrost, seismic activity, slope movements, and volcanic features and processes. Each chapter has an overview of the resource; summarizes features that could be monitored; describes methods for monitoring each feature ranging from low-cost, low-technology methods (that could be used for school groups) to higher cost, detailed monitoring methods requiring a high level of expertise; and presents one or more targeted case studies."--Publisher's description.
A Concise Geologic Time Scale Farrar, Straus and Giroux
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)
Antarctic Climate Evolution Elsevier
This book is Open Access. A digital copy can be downloaded for free from Wiley Online Library. Exploring the links between Large Igneous Provinces and dramatic environmental impact An emerging consensus suggests that Large Igneous Provinces (LIPs) and Silicic LIPs (SLIPs) are a significant driver of dramatic global environmental and biological changes, including mass extinctions. Environmental changes caused by LIPs and SLIPs include rapid global warming, global cooling ('Snowball Earth'), oceanic anoxia events, mercury poisoning, atmospheric and oceanic acidification, and sea level changes. Continued research to characterize the effects of these extremely large and typically short duration igneous events on atmospheric and oceanic chemistry through Earth history can provide lessons for understanding and mitigating modern climate change. Large Igneous Provinces: A Driver of Global Environmental and Biotic Changes describes the interactions between the effects of LIPs and other drivers of climatic change, the limits of the LIP effect, and the atmospheric and oceanic consequences of LIPs in significant environmental events. Volume highlights include: Temporal record of large igneous provinces (LIPs) Environmental impacts of LIP emplacement Precambrian, Proterozoic, and Phanerozoic case histories Links between geochemical proxies and the LIP record Alternative causes for environmental change Key parameters related to LIPs and SLIPs for use in environmental change modelling Role of LIPs in Permo-Triassic, Triassic-Jurassic, and other mass extinction events The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.
Assembling California Geological Society of America
Antarctic Climate Evolution is the first book dedicated to furthering knowledge on the evolution of the world’s largest ice sheet over its ~34 million year history. This volume provides the latest information on subjects ranging from terrestrial and marine geology to sedimentology and glacier geophysics. An overview of Antarctic climate change, analyzing historical, present-day and future developments Contributions from leading experts and scholars from around the world Informs and updates climate change scientists and experts in related areas of study
Arevised Geologic Time-table for North America, by Charles Schuchert and Joseph Barrell. (Contributions from the Geological Department, Yale University ...). Penn State Press
This volume is made up of papers presented at a colloquium of the Geology Devision of Section III of the Royal Society of Canada at the annual meeting in Quebec, June 1963. The papers fall into two groups: in one group the validity and shortcomings of the methods of establishing the geographical time-table are discussed; and, in the other, applications of the methods to areas across Canada, and from Precambrian to recent, are described. The geological time-table has been built up from the record of the rocks and is based on the law of superposition, a fact that is pointed out in the first paper of this volume. The chronological value of fossils, palaeomagnetism as a means of dating geological events, the limitations of radiometric dating, and other pertinent matters are here dealth with by a group of well-known authorities. These scientific disquisitions will be of great importance to geologists everywhere. This work should be of special interest to those engaged in research on the history of the earth, particularly in relation to the nature, the causes, and the time of an event. It will also serve as a valuable reference to practising geologists in government or industry, to university departments of geology, and to geological consultants. Royal Society of Canada, "Special Publications" Series, no. 8.
The Geologic Time Scale 2020 Academic Press
Rocks firmly anchored to the ground and rocks floating through space fascinate us. Jewelry, houses, and roads are just some of the ways we use what has been made from geologic processes to advance civilization. Whether scrambling over a rocky beach, or gazing at spectacular meteor showers, we can't get enough of geology! The Geology Bookwill teach you: What really carved the Grand Canyon. How thick the Earth's crust is. The varied features of the Earth's surface - from plains to peaks. How sedimentary deposition occurs through water, wind, and ice. Effects of erosion. Ways in which sediments become sedimentary rock. Fossilization and the age of the dinosaurs. The powerful effects of volcanic activity. Continental drift theory. Radioisotope and carbon dating. Geologic processes of the past. Our planet is a most suitable home. Its practical benefits are also enhanced by the sheer beauty of rolling hills, solitary plains, churning seas and rivers, and majestic mountains - all set in place by processes that are relevant to today's entire population of this spinning rock we call home.
The Anthropocene as a Geological Time Unit Cambridge University Press
* HUGO AWARD WINNER: BEST NOVELLA * NEBULA AND LOCUS AWARDS WINNER: BEST NOVELLA * “[An] exquisitely crafted tale…Part epistolary romance, part mind-blowing science fiction adventure, this dazzling story unfolds bit by bit, revealing layers of meaning as it plays with cause and effect, wildly imaginative technologies, and increasingly intricate wordplay…This short novel warrants multiple readings to fully unlock its complexities.” —Publishers Weekly (starred review) From award-winning authors Amal El-Mohtar and Max Gladstone comes an enthralling, romantic novel spanning time and space about two time-traveling rivals who fall in love and must change the past to ensure their future. Among the ashes of a dying world, an agent of the Commandment finds a letter. It reads: Burn before reading. Thus begins an unlikely correspondence between two rival agents hellbent on securing the best possible future for their warring factions. Now, what began as a taunt, a battlefield boast, becomes something more. Something epic. Something romantic. Something that could change the past and the future. Except the discovery of their bond would mean the death of each of them. There’s still a war going on, after all. And someone has to win. That’s how war works, right? Cowritten by two beloved and award-winning sci-fi writers, This Is How You Lose the Time War is an epic love story spanning time and space.
Nicolaus Steno Stanford University Press
Carbon Isotope Stratigraphy, Volume Five in the Advances in Sequence Stratigraphy series, covers research in stratigraphic disciplines, including the most recent developments in the geosciences. This fully commissioned review publication aims to foster and convey progress in stratigraphy with its inclusion of a variety of topics, including Carbon isotope stratigraphy - principles and applications, Interpreting Phanerozoic d13C patterns as periodic glacio-eustatic sequences, Stable carbon isotopes in archaeological plant remains, Review of the Upper Ediacaran-Lower Cambrian Detrital Series in Central and North Iberia: NE Africa as possible Source Area, Calibrating d13C and d18O chemostratigraphic correlations across Cambrian strata of SW, and much more. Contains contributions from leading authorities in the field Informs and updates on all the latest developments in the field Aims to foster and convey progress in stratigraphy, including geochronology, magnetostratigraphy, lithostratigraphy, event-stratigraphy, and more
Annals of the Former World Springer
A paleontologist shows what life was like on our planet long before the early humans emerged through words and illustrations. Paleontologist Dr. Mark P. Witton draws on the latest twenty-first century discoveries to re-create the appearances and lifestyles of extinct, fascinating species, the environments they inhabited, and the challenges they faced living on an ever-changing planet. A worthy successor to Charles Knight’s beloved 1946 classic, Life through the Ages II takes us on an unforgettable journey through the evolution of life on Earth. Dozens of gorgeous color illustrations and meticulously researched, accompanying commentary showcase the succession of lost worlds, defining events, and ancient creatures that have appeared since the earth was formed, creating an indispensable guide to explore what came before us. “When it comes to modern palaeoartists, Mark Witton has become a leading light. Life Through the Ages II is a beautiful palaeoart portfolio that pushes the envelope where realistic compositions and reconstructions are concerned.” —The Inquisitive Biologist
Life Through the Ages II Springer Science & Business Media
The Encyclopedia of Lunar Science includes the latest topical data, definitions, and explanations of the many and varied facets of lunar science. This is a very useful reference work for a broad audience, not limited to the professional lunar scientist: general astronomers, researchers, theoreticians, practitioners, graduate students, undergraduate students, and astrophysicists as well as geologists and engineers. The title includes all current areas of lunar science, with the topical entries being established tertiary literature. The work is technically suitable to most advanced undergraduate and graduate students. The articles include topics of varying technical levels so that the top scientists of the field find this work a benefit as well as the graduate students and the budding lunar scientists. A few examples of topical areas are as follows: Basaltic Volcanism, Lunar Chemistry, Time and Motion Coordinates, Cosmic Weathering through Meteoritic Impact, Environment, Geology, Geologic History, Impacts and Impact Processes, Lunar Surface Processes, Origin and Evolution Theories, Regolith, Stratigraphy, Tectonic Activity, Topography,

Weathering through ionizing radiation from the solar wind, solar flares, and cosmic rays.
Geochronology in Canada Cambridge University Press
This is a complete and authoritative reference text on an evolving field. Over 200 international scientists have written over 340 separate topics on different aspects of geochemistry including organics, trace elements, isotopes, high and low temperature geochemistry, and ore deposits, to name just a few.
The Age of the Earth Elsevier
World-class palaeontologists and biologists summarise the state-of-the-art on fish evolution and development.
A Geologic Time Scale 1989 Cambridge University Press
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.
The Geological Time Table Springer Science & Business Media
At various times in a span of fifteen years, John McPhee made geological field surveys in the company of Eldridge Moores, a tectonicist at the University of California at Davis. The result of these trips is Assembling California, a cross-section in human and geologic time, from Donner Pass in the Sierra Nevada through the golden foothills of the Mother Lode and across the Great Central Valley to the wine country of the Coast Ranges, the rock of San Francisco, and the San Andreas family of faults. The two disparate time scales occasionally intersect—in the gold disruptions of the nineteenth century no less than in the earthquakes of the twentieth—and always with relevance to a newly understood geologic history in which half a dozen large and separate pieces of country are seen to have drifted in from far and near to coalesce as California. McPhee and Moores also journeyed to remote mountains of Arizona and to Cyprus and northern Greece, where rock of the deep-ocean floor has been transported into continental settings, as it has in California. Global in scope and a delight to read, Assembling California is a sweeping narrative of maps in motion, of evolving and dissolving lands.
Encyclopedia of Environmental Science OUP Oxford
Reviews the evidence underpinning the Anthropocene as a geological epoch written by the Anthropocene Working Group investigating it. The book discusses ongoing changes to the Earth system within the context of deep geological time, allowing a comparison between the global transition taking place today with major transitions in Earth history.
Geology of North America—An Overview Geological Society of America
Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.
Encyclopedia of Geochemistry Elsevier
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 synthesize 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
Grand Canyon Geology University of Toronto Press
'The colorful previous editions of the Geological Time Table have been immensely popular with scientists, professors, and students alike. The new and revised sixth edition provides practicing geologists, archaeologists, and Earth historians with a succinct source of reference to stratigraphy and chronostratigraphy. It provides easy access to numerical ages, including the stratigraphic subdivisions and the ages of prominent mountain-building, paleoceanographic, paleoclimatological and evolutionary events in Earth history. The linear time scale has been thoroughly revised, utilizing recent developments in geochronology and radiochronology, especially where there have been major revisions in age dating. An attempt has been made to update all regional stratigraphic schemes based on the most recent information. It also lists major events in how mountain ranges are formed, geomagnetic polarity reversal, and unusual seafloor magnetic records, where available. Major biotic events, prominent geodynamic, oceanographic and geochemical events and glacial episodes of the Phanerozoic can also be found for quick reference. A series of paleogeographic maps showing major geographic and oceanographic changes are included as an educational tool and glacial and archaeological classifications complete the utility of the chart for paleoclimatology and archaeology. An index is provided for quick and easy reference to the terms within the body of the Table.' Also sold separately - Haq: Geological Time Table, 6e (Elsevier, Wallchart, ISBN-13:9780444828651, $35.00)