

Geologic time scale



Geological Era	System/ Period	Series/ Epoch	Stage/ Age	mya ¹
Phanerozoic	Cenozoic	Quaternary	Holocene	present
			Notungian	0.0040
			Overlandian	0.0080
			Upper	0.0117
			Upper	0.128
		Pleistocene	Chilman	0.714
			Cadman	1.8
			Calman	2.58
			Calman	3.6
			Calman	5.333
	Neogene	Pliocene	Maxman	7.246
			Turkman	11.63
			Sensman	13.80
			Langman	15.36
			Burdigalian	20.44
		Oligocene	Aquitanian	23.03
			Chattian	27.82
			Rupelian	33.9
			Pratoman	37.71
			Bartonian	41.2
	Paleogene	Eocene	Lutetian	47.8
			Tyronean	56
			Therapsid	58.2
			Selarian	61.6
			Danian	66
		Upper	Maastrichtian	70.1 ± 0.2
			Cenomanian	83.6 ± 0.2
			Santonian	86.5 ± 0.3
			Coniacian	89.8 ± 0.2
			Turonian	93.9
	Mesozoic	Cretaceous	Cenomanian	100.5
			Albian	113
			Aptian	121.4
			Barremian	125.77
			Hauterivian	130.8
		Lower	Valanginian	136.8
			Berriasian	145
	Mesozoic	Jurassic	Tithonian	145
			Kimmeridgian	148.2 ± 0.7
			Oxfordian	154.8 ± 0.8
			Callovian	161.3 ± 1
			Bathonian	165.2 ± 1.1
		Middle	Stenian	168.2 ± 1.2
			Asenian	170.8 ± 0.8
			Turonian	174.7 ± 0.8
			Flamborian	184.2 ± 0.2
			Sinemurian	188.8 ± 0.3
	Mesozoic	Lower	Sinemurian	199.5 ± 0.3
			Hettangian	201.8 ± 0.2
			Phasian	208.5
			Isarian	207
			Carman	207
		Upper	Ludman	242
			Aymian	247.2
			Oreman	261.2
			Induan	251.82 ± 0.24
			Changhsingian	254.14 ± 0.07
Phanerozoic	Paleozoic	Permian	Wuchiapingian	258.17 ± 0.21
			Capitanian	264.28 ± 0.16
			Wardian	268.9 ± 0.4
			Roadian	273.01 ± 0.14
			Kungurian	280.5 ± 0.8
	Carboniferous	Oreman	Artisanian	290.1 ± 0.28
			Sakmanian	293.02 ± 0.17
			Asselian	298.9 ± 0.10
			Gartian	300.7 ± 0.1
			Kapmanian	307 ± 0.1
		Middle	Moscowian	315.2 ± 0.2
			Bashkirian	320.2 ± 0.4
			Serpukhovian	330.9 ± 0.2
			Visian	346.7 ± 0.4
			Tournaisian	358.9 ± 0.4
	Paleozoic	Devonian	Famennian	366.9 ± 0.4
			Frasnian	370.2 ± 1.6
			Givetian	382.7 ± 1.6
			Eifelian	387.2 ± 0.8
			Emasian	390.9 ± 1.2
		Lower	Pragian	407.6 ± 0.6
			Luthebian	416.4 ± 0.8
			Luthebian	419.2 ± 0.2
			Luthebian	429 ± 2.3
			Luthebian	426.4 ± 0.8
Phanerozoic	Paleozoic	Silurian	Hornerian	427.4 ± 0.3
			Shinarumpian	430.5 ± 0.7
			Telychian	433.4 ± 0.8
			Arenian	438.5 ± 1.1
			Prudhoean	440.6 ± 1.2
		Upper	Hemurian	440.8 ± 1.5
			Katian	446.2 ± 1.4
			Sandbian	452 ± 0.7
			Oriskanyian	456.4 ± 0.8
			Oriskanyian	467.3 ± 1.1
	Paleozoic	Middle	Oriskanyian	470 ± 1.4
			Oriskanyian	477.7 ± 1.4
			Oriskanyian	485.4 ± 1.8
			Oriskanyian	489.5
			Oriskanyian	494
		Lower	Oriskanyian	497
			Oriskanyian	500.3
			Oriskanyian	504.5
			Oriskanyian	508
			Oriskanyian	514
	Paleozoic	Series 2	Stage 4	521
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		Series 1	Stage 4	521
			Stage 3	521
			Stage 2	529
			Stage 1	529
			Stage 1	529
Phanerozoic	Precambrian	Proterozoic	Ediacaran	541 ± 1.2
			Ediacaran	541 ± 1.2
			Ediacaran	541 ± 1.2
			Ediacaran	541 ± 1.2
			Ediacaran	541 ± 1.2
		Mesoproterozoic	Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
	Precambrian	Paleoproterozoic	Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
		Archean	Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
	Precambrian	Hadaean ²	Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
		Hadaean ²	Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2
			Stenian	541 ± 1.2

¹millions of years ago.

²Both the Mesoproterozoic and Permian time units are formally designated as subperiods within the Carboniferous Period.

³Several Cambrian unit age boundaries are informal and are awaiting refined definitions.

⁴The Hadaean Era is an informal interval of geologic time.

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The Earths Age And Geochronology

Xiaolong Qi



The Earth's Age And Geochronology:

The Earth's Age and Geochronology Derek York, Ronald M. Farquhar, 2013-10-22 The Earth's Age and Geochronology provides an outline of geochronological methods applications and interpretations This book discusses the fossil fission track method of dating Organized into 12 chapters this book begins with an overview of an accurate chronometer for measuring time intervals that must contain some sort of mechanism in which it operates at a predictable or known rate This text then discusses the methodology of dating as well as the importance of long cooling histories Other chapters consider the application of the experimental method to idealized undisturbed systems This book discusses as well the concept that in plutonic environments daughter isotope retention may often not commence until long after crystallization or the peak of metamorphism The final chapter deals with the applications of geochronology wherein the effects of selectivity will be particularly evident This book is a valuable resource for nuclear physicists astronomers geologists cosmologists geochronologists experimentalists and scientists [The Age of the Earth](#) G. Brent Dalrymple, 1991 A synthesis of all that has been postulated and is known about the age of the Earth **Lord Kelvin and the Age of the Earth** Joe D. Burchfield, 2009-05-11 Burchfield charts the enormous impact made by Lord Kelvin's application of thermodynamic laws to the question of the earth's age and the heated debate his ideas sparked among British Victorian physicists astronomers geologists and biologists Anyone interested in geologic time and that should include all geologists and a fair smattering of biologists physicists and chemists should make Burchfield's commendable and time tested volume part of their personal library Brent Dalrymple Quarterly Review of Biology **Perspectives on the Age of the Earth and Why They Matter** Francis Ö. Dudás, 2020-02-13 Polls show almost half of US adults believe that Earth is only 10 000 years old whereas scientists consider our planet to be 4 56 billion years old Examining these conflicting views illuminates aspects of the perceived conflict between religion and science and helps us understand the battles between evolutionist and creationist advocates This book examines how we approach knowledge and how we look at certainty It disentangles the threads of the traditional knowledge we are taught from the knowledge we gain from our own investigation of truth It argues that nature the basis of science and scripture the basis of religion derive from a single source Because of their shared origins religious and scientific perspectives grounded in verifiable truths must be in harmony The book presents the science behind the reliability of isotopic dates and critiques young earth creationist attacks on isotopic studies Though the nature of time is a philosophical issue its measurement is a scientific venture that has affirmed that Earth is 4 56 billion years old The harmony of science and religion based on recognition of their single source is a prerequisite for the progress of humanity as a whole **The Solid Earth** C. M. R. Fowler, 2005 A fully up dated edition of this acclaimed undergraduate geophysics textbook *Encyclopedia of Astrobiology* Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27 Now in its third edition the

Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists. Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture. The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology. The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e.g. the prevalence of exoplanets, the diversity and hardiness of life and its chances for emergence. Biologists, astrophysicists, biochemists, geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe. With its overview articles and its definitions, the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines. This new edition offers 170 new entries. More than half of the existing entries were updated, expanded or supplemented with figures supporting the understanding of the text. Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general, there is a huge body of new results that have been taken into account in this new edition. Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field, this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield. This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field.

Earth Frank H. T. Rhodes, 2012-06-10. It's impossible to grasp the whole planet or integrate all the descriptions of it. But because we live here we have to try. This is not just an artistic compulsion or an existential yearning, still less an academic exercise. It's a survival issue. This is the only planet we have. We're stuck here and we don't own the place; it would be the height of arrogance to assume that we do. We're tenants here, not owners, but we're tenants with hope for a long-term tenancy. We want to extend our lease just as far as we can from Earth. A Tenant's Manual. In *Earth: A Tenant's Manual*, the distinguished geologist Frank H. T. Rhodes, President Emeritus of Cornell University, provides a sweeping, accessible and deeply informed guide to the home we all share, showing us how we might best preserve the Earth's livability for ourselves and future generations. Rhodes begins by setting the scene for our active planet and explaining how its location and composition determine how the Earth works and why it teems with life. He emphasizes the changes that are of concern to us today, from earthquakes to climate change and the clashes over the energy resources needed for the Earth's exploding population. He concludes with an extended exploration of humanity's prospects on a complex, protean and ultimately finite world. It is not a question of whether the planet is sustainable; the challenge facing life on Earth and the life of the Earth is whether an expanding and high consumption species like ours is sustainable. Only new resources, new priorities, new policies and most of all, new knowledge can reverse the damage that humanity is doing to our home and ourselves. A sustainable

human future Rhodes concludes in this eloquent sobering but ultimately optimistic book will require a sense of responsible stewardship for we are not owners of this planet we are tenants Surveying the systems large and small that govern Earth's processes and influence its changes Rhodes addresses the negative consequences of human activities for the health of its regulatory systems but offers practical suggestions as to how we might effect repairs or at least limit further damage to our home

Absolute Age Determination Mebus A. Geyh, Helmut Schleicher, 2012-12-06 With the growing recognition during the last two centuries that the Earth has an immense age and processes over long periods of time have changed the morphology and composition of the Earth's crust geologists have become increasingly interested in determination of absolute ages A relative geochronology was established on the basis of the lithostratigraphic and biostratigraphic principles developed during the last century With the discovery of radioactivity the basis for a new geoscientific discipline geochronology was established Rutherford 1906 It is the study of geological time based mainly on the time signatures provided by the isotopic composition in geologic materials The isotopic signature in a rock yields more information than that provided by the geochemical signature alone because it reflects the origin and history of the element in the rock The aim of geochronology is to calibrate and standardize chronostratigraphic scales to develop geological time scales that have a sensitive or at least useful resolution in order to place the geological events in the correct chronological order and to assign their proper time spans In practice the application of geochronology is much wider because the data in the natural archives often provide information on the origin genesis and history of the materials This of course requires an understanding of the geochemical behavior of the substances involved

Geoscience Research and Outreach Vincent C. H. Tong, 2013-08-23 From energy and water resources to natural disasters and from changing climatic patterns to the evolution of the Earth's deep interior geoscience research affects people's lives in many ways and on many levels This book offers a stimulating cross disciplinary perspective on the important relationship between geoscience research and outreach activities for schools and for the general public The contributors academics research scientists science educators and outreach program educators describe and evaluate outreach programs from around the world A section entitled Field based Approaches includes a chapter describing an initiative to engage Alaskan communities and students in research and another on problem based learning in the field setting The Online Approaches section discusses ways to connect students and scientists using online forums use of the web and social media including the United Nations University and its experience with the design of a web magazine featuring geoscience research and video clips on marine geoscience created by students and scientists The section on Workshop and Laboratory based Approaches includes a chapter on teaching geochronology to high school students and another describing an extracurricular school activity program on meteorology The Program Design section presents chapters on Integrating Geoscience Research in Primary and Secondary Education on ways to bridge research with science education at the high school level and on use of online geoscience data from the Great Lakes The concluding section Promoting

Research enhanced Outreach offers chapters on Geoscience Outreach Education with the local community by a leading research intensive university and on the use of research to promote action in Earth science professional development for schoolteachers Geoscience Research and Outreach Schools and Public Engagement will benefit geoscience researchers who wish to promote their work beyond academia It offers guidance to those seeking research funding from agencies which increasingly request detailed plans for outreach activities in research proposals Policymakers educators and scientists working in museums learned societies and public organizations who wish to widen participation will also find this book useful Together with the companion volume Geoscience Research and Education Teaching at Universities this book showcases the key role that geoscience research plays in a wide spectrum of educational settings

Nuclear and Radiochemistry

Jens-Volker Kratz,2022-01-04 Nuclear and Radiochemistry The leading resource for anyone looking for an accessible and authoritative introduction to nuclear and radiochemistry In the newly revised Fourth Edition of Nuclear and Radiochemistry Fundamentals and Applications distinguished chemist Jens Volker Kratz delivers a two volume handbook that has become the gold standard in teaching and learning nuclear and radiochemistry The books cover the theory and fundamentals of the subject before moving on the technical side of nuclear chemistry with coverage of nuclear energy nuclear reactors and radionuclides in the life sciences This latest edition discusses the details and impact of the Chernobyl and Fukushima nuclear disasters as well as new research facilities including FAIR and HIM It also incorporates new methods for target preparation and new processes for nuclear fuel recycling like EURO GANEX Finally the volumes extensively cover environmental technological advances and the effects of radioactivity on the environment Readers will also find An accessible and thorough introduction to the fundamental concepts of nuclear physics and chemistry including atomic processes classical mechanics relativistic mechanics and the Heisenberg Uncertainty Principle Comprehensive explorations of radioactivity in nature radioelements radioisotopes and their atomic masses and other physical properties of nuclei Practical discussions of the nuclear force nuclear structure decay modes radioactive decay kinetics and nuclear radiation In depth examinations of the statistical considerations relevant to radioactivity measurements Written for practicing nuclear chemists and atomic physicists Nuclear and Radiochemistry Fundamentals and Applications is also an indispensable resource for nuclear physicians power engineers and professionals working in the nuclear industry

The Geology of Australia

Robert Henderson,David Johnson,2016-09-06 From Uluru to the Great Dividing Range The Geology of Australia explores the timeless forces that have shaped this continent

Quaternary Dating Methods W.C. Mahaney,2000-04-01 Quaternary Dating

Methods

Earth Sciences History

Earth Processes

Asish Basu,Stan Hart,1996-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 95 Publication of this monograph will coincide to a precision of a few per mil with the centenary of Henri Becquerel s discovery of radiations actives C R Acad Sci Feb 24 1896 In 1896 the Earth was only 40 million years old according to Lord Kelvin Eleven years later Boltwood had

pushed the Earth's age past 2000 million years based on the first U-Pb chemical dating results. In exciting progression came discovery of isotopes by J.J. Thomson in 1912, invention of the mass spectrometer by Dempster in 1918 and Aston in 1919, the first measurement of the isotopic composition of Pb by Aston in 1927 and the final approach using Pb-Pb isotopic dating to the correct age of the Earth, close to 2.9 Ga by Gerling in 1942, closer to 3.0 Ga by Holmes in 1949 and closest to 4.50 Ga by Patterson, Tilton and Inghram in 1953.

Fundamentals of Geophysics William Lowrie, 2007-09-20 This second edition of Fundamentals of Geophysics has been completely revised and updated and is the ideal geophysics textbook for undergraduate students of geoscience with an introductory level of knowledge in physics and mathematics. It gives a comprehensive treatment of the fundamental principles of each major branch of geophysics and presents geophysics within the wider context of plate tectonics, geodynamics and planetary science. Basic principles are explained with the aid of numerous figures and step-by-step mathematical treatments and important geophysical results are illustrated with examples from the scientific literature. Text boxes are used for auxiliary explanations and to handle topics of interest for more advanced students. This new edition also includes review questions at the end of each chapter to help assess the reader's understanding of the topics covered and quantitative exercises for more thorough evaluation. Solutions to the exercises and electronic copies of the figures are available at www.cambridge.org/9780521859028.

Walking to Connect with Nature and Respond to Anthropogenic Climate Change Margaret Somerville, 2024-07-19 The author Margaret Somerville collected the insights contained within the present volume over a year of walking the ridge, daily linking globally significant scientific findings on the origins and deep time evolution of landscapes and living things to her own intensely observed embodied interactions with rocks, trees, plants, birds, weather and the seasons, informed by decades of work with Indigenous researchers. It draws on the formation of Gondwana, land and how the planet came to be when life emerged from the sea and trees in symbiosis with fungi. The Gondwana forests contained the oldest trees and plants on the planet and the first songbirds in the world that are said to be the beginning of music and song. It also addresses seasonal change. This book is a valuable resource for any course that aims to address global issues and bring hope to the global movement of young people facing climate change in their local places.

Geologic Time, 1970 **Radiochemistry and Nuclear Chemistry** Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, 2002 Origin of Nuclear Science, Nuclei, Isotopes and Isotope Separation, Nuclear Mass and Stability, Unstable Nuclei and Radioactive Decay, Radionuclides in Nature, Absorption of Nuclear Radiation, Radiation Effects on Matter, Detection and Measurement Techniques, Uses of Radioactive Tracers, Cosmic Radiation and Elementary Particles, Nuclear Structure, Energetics of Nuclear Reactions, Particle Accelerators, Mechanics and Models of Nuclear Reactions, Production of Radionuclides, The Transuranium Elements, Thermonuclear Reactions, the Beginning and the Future, Radiation Biology and Radiation Protection, Principles of Nuclear Power, Nuclear Power Reactors, Nuclear Fuel Cycle, Behavior of Radionuclides in the Environment, Appendices, Solvent Extraction, Separations, Answers to Exercises, Isotope Chart, Periodic Table of the

Elements Quantities and Units Fundamental Constants Energy Conversion Factors Element and Nuclide Index Subject Index

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 Nature's Clocks J. D. Macdougall, 2008 A lucid and engaging account of the scientific revolution that changed the way we think about our planet and ourselves James Lawrence Powell author of Grand Canyon and Mysteries of Terra Firma

Ignite the flame of optimism with is motivational masterpiece, Fuel Your Spirit with **The Earths Age And Geochronology** . In a downloadable PDF format (*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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The Earths Age And Geochronology Introduction

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