

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.
	Mesozoic	Triassic	252–201	First dinosaurs, mammals.
		Jurassic	201–145	Age of Dinosaurs, first birds.
		Cretaceous	145–66	Flowering plants, mass extinction.
	Cenozoic	Paleogene	66–23	Mammals diversify.
Neogene		23–2.58	First hominins.	
Quaternary		2.58–Present	Ice Ages, rise of humans.	

Geological Time

Archibald Geikie



Geological Time:

Stellar Evolution and Its Relations to Geological Time James Croll, 1889 The Anthropocene as a Geological Time Unit Jan Zalasiewicz, Colin N. Waters, Mark Williams, Colin P. Summerhayes, 2019-03-07 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

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 The Earth Through Time Harold L. Levin, David T. King, Jr., 2016-06-21 The Earth Through Time 11th Edition by Harold L Levin and David T King chronicles the Earth s story from the time the Sun began to radiate its light to the beginning of civilization The goal of The Earth Through Time is to present the history of the Earth and the science behind that history as simply and clearly as possible The authors strived to make the narrative more engaging to convey the unique perspective and value of historical geology and to improve the presentation so as to stimulate interest and enhance the reader s ability to retain essential concepts long after the final exam **Text-book of Geology** Archibald Geikie, 1893 *Earth Materials* Dexter Perkins, Kevin Henke, Adam Simon, Lance Yarbrough, 2019-07-24 There is a large and growing need for a textbook that can form the basis for integrated classes that look at minerals rocks and other Earth materials Despite the need no high quality book is available for such a course Earth Materials is a wide ranging undergraduate textbook that covers all the most important kinds of inorganic Earth materials Besides traditional chapters on minerals and rocks this book features chapters on sediments and stratigraphy weathering and soils water and the hydrosphere and mineral and energy deposits Introductions to soil mechanics and rock mechanics are also included This book steers away from the model of traditional encyclopedic science textbooks but rather exposes students to the key and most exciting ideas and information with an emphasis on thinking about Earth as a system The book is written in such a manner as to support inquiry discovery and other forms of active learning All chapters start with a short topical story or vignette and the plentiful photographs and other graphics are integrated completely with the text Earth Materials will be interesting and useful for a wide range of learners including geoscience students students taking mineralogy and petrology courses engineers and anyone interested in learning more about the Earth as a system *The Quarterly Journal of the Geological Society of London* Geological Society of London, 1903 Vols 1 108 include Proceedings of the society separately paged beginning with v 30 **Geologic Time** Don L. Eicher, 1976 Class-book of Geology Archibald Geikie, 1903 **Manual of Geology** James Dwight Dana, 1880 Encyclopaedia Britannica , 1902 Transactions of the Geological Society of South Africa Geological Society of South Africa, 1898 Vols 1 6 49 68 include its Proceedings The Geological Magazine , 1885 **Geology of Wisconsin** Wisconsin. Chief Geologist, 1888 **Our Mobile Earth** Reginald Aldworth Daly, 1926 **The Mineral Wealth of Canada** Arthur Brown Willmott, 1897 **Elements of Geology** Joseph LeConte, 1895 *The Annals and Magazine of Natural History* , 1883 The Geological Magazine Or Monthly Journal of Geology , 1895

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