

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.

Section 12 2 The Geologic Time Scale Study Guide

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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 Study Guide Stanley Chernicoff, 2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and short essay questions **NASA Technical Memorandum** ,1989

Geological Survey Professional Paper Geological Survey (U.S.), 1960 **Geological Survey Professional Papers** ,1975 **Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress, 1968 *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 Paleotectonic Investigations of the Permian System in the United States Edwin Dinwiddie McKee, Steven S. Oriel, 1967 **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

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