



INTERNATIONAL STRATIGRAPHIC CHART

International Commission on Stratigraphy



Period	Epoch	Age	Start (Ma)	End (Ma)	Notes
Phanerozoic	Cenozoic	Quaternary	Holocene		
				0.0017	
				0.126	
				0.781	
				1.806	
		Pleistocene	Tibetian		
				2.589	
				3.600	
				5.300	
				7.246	
	Neogene	Miocene	Messinian		
				11.808	
				13.82	
				16.97	
				20.43	
		Oligocene	Chattian		
				28.4 ± 0.1	
				30.9 ± 0.1	
				37.2 ± 0.1	
				40.4 ± 0.2	
	Paleogene	Eocene	Lutetian		
				46.8 ± 0.2	
				56.9 ± 0.2	
				66.7 ± 0.2	
				~ 99.1	
		Paleocene	Danian		
				66.5 ± 0.3	
				70.9 ± 0.6	
				80.5 ± 0.7	
				88.9 ± 0.7	
	Mesozoic	Cretaceous	Upper		
				~ 98.6	
				100.5 ± 0.8	
				106.9 ± 0.9	
				112.9 ± 1.0	
		Lower	Aptian		
				120.0 ± 1.0	
				130.0 ± 1.0	
				~ 133.8	
				146.2 ± 0.8	
				160.1 ± 0.7	

Period	Epoch	Age	Start (Ma)	End (Ma)	Notes
Phanerozoic	Mesozoic	Jurassic	Upper		
				145.0 ± 0.3	
				155.8 ± 0.9	
				~ 159.6	
				161.2 ± 0.8	
		Middle	Callovian		
				166.7 ± 0.5	
				167.7 ± 0.5	
				171.0 ± 0.9	
				175.0 ± 0.9	
	Triassic	Lower	Toarcian		
				182.0 ± 1.0	
				186.0 ± 1.0	
				188.0 ± 1.0	
				199.0 ± 0.9	
		Upper	Rhaetian		
				201.0 ± 0.9	
				~ 201.7	
				207.0 ± 0.9	
				~ 249.6	
	Paleozoic	Permian	Lopingian		
				252.0 ± 0.4	
				260.4 ± 0.7	
				265.4 ± 0.7	
				269.6 ± 0.7	
		Carboniferous	Guadalupian		
				260.5 ± 0.7	
				270.5 ± 0.7	
				279.6 ± 0.7	
				284.4 ± 0.7	
	Cambrian	Middle	Siderian		
				264.9 ± 0.6	
				266.0 ± 0.6	
				267.2 ± 0.6	
				271.7 ± 1.1	
		Lower	Schenian		
				505.4 ± 0.9	
				507.2 ± 1.0	
				511.7 ± 1.1	
				518.1 ± 1.3	

Period	Epoch	Age	Start (Ma)	End (Ma)	Notes
Phanerozoic	Paleozoic	Devonian	Upper		
				360.2 ± 0.3	
				374.6 ± 0.4	
				386.3 ± 0.4	
				391.8 ± 0.7	
		Middle	Emsian		
				387.5 ± 0.7	
				407.6 ± 0.8	
				411.2 ± 0.8	
				416.0 ± 0.8	
	Silurian	Pragian	Ludlowian		
				416.7 ± 0.7	
				421.3 ± 0.8	
				423.6 ± 0.8	
				428.2 ± 0.4	
		Wenlock	Droghdaian		
				428.2 ± 0.3	
				436.0 ± 1.0	
				438.0 ± 1.0	
				443.7 ± 1.0	
	Ordovician	Upper	Katian		
				448.0 ± 1.0	
				450.4 ± 1.0	
				455.4 ± 1.0	
				459.4 ± 1.0	
		Middle	Stenian		
				460.4 ± 1.0	
				471.8 ± 1.0	
				476.4 ± 1.7	
				488.3 ± 1.7	
	Cambrian	Punguan	Stage 10		
				~ 492.7	
				~ 496.7	
				~ 499	
				~ 500	
		Series 1	Guzhangian		
				~ 505.5	
				~ 510.2	
				~ 513.7	
				~ 517.7	
	Precambrian	Series 2	Stage 3		
				~ 521.7	
				~ 525.7	
				~ 529.7	
				541.0 ± 0.3	

This chart was drafted by Gidon Ogg, incorporating Cambrian unit ages with * are informal, and awaiting related definitions.

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Period	Epoch	Age	Start (Ma)	End (Ma)	Notes
Phanerozoic	Precambrian	Proterozoic	Neoproterozoic		
				542	
				~ 542	
				~ 542	
				~ 542	
		Mesoproterozoic	Stenian		
				~ 1000	
				~ 1000	
				~ 1000	
				~ 1000	
	Archaean	Paleoproterozoic	Gaskiersian		
				~ 2500	
				~ 2500	
				~ 2500	
				~ 2500	
		Hadaean (informal)	Hadaean		
				~ 4000	
				~ 4000	
				~ 4000	
				~ 4000	

Subdivisions of the global geologic record are formally defined by their lower boundary. Each unit of the Phanerozoic (1-542 Ma to Present) and the base of the Proterozoic (1-542 Ma to Present) and the base of the Archaean are defined by a basal Global Boundary Stratigraphic Section and Point (GSSSP), whereas Precambrian units are formally subdivided by absolute age (Global Standard Stratigraphic Age, GSSA). Details of each GSSSP are printed on the ICS website (www.stratigraphy.org).

Numerical ages of the units and boundaries in the Phanerozoic are subject to revision. Some stages within the Cambrian will be formally named upon international agreement on their GSSSP limits. Most sub-series boundaries (e.g., Middle and Upper Archaean) are not formally defined.

Colors are according to the Commission for the Geological Map of the World (www.igmp.org).

The latest numerical ages are from A-Geologic Time Scale 2004, by F.M. Gradstein, J.G. Ogg, A.G. Smith, et al. (2004, Cambridge University Press) and 'The Geologic Time Scale' by J.G. Ogg, G. Ogg and F.M. Gradstein (2008).

Stratigraphy And Geologic Time

Albert A Gayle



Stratigraphy And Geologic Time:

The book delves into Stratigraphy And Geologic Time. Stratigraphy And Geologic Time is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Stratigraphy And Geologic Time, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Stratigraphy And Geologic Time in Everyday Life
 - Chapter 4: Stratigraphy And Geologic Time in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Stratigraphy And Geologic Time. The first chapter will explore what Stratigraphy And Geologic Time is, why Stratigraphy And Geologic Time is vital, and how to effectively learn about Stratigraphy And Geologic Time.
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 5. In chapter 4, this book will scrutinize the relevance of Stratigraphy And Geologic Time in specific contexts. The fourth chapter will explore how Stratigraphy And Geologic Time is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Stratigraphy And Geologic Time. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Stratigraphy And Geologic Time.

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