

Eonothem Era	Era	System Period	Series Epoch	Stage Age	Age Ma	GSSP	
Phanerozoic	Cenozoic	Quaternary *	Holocene		0.0118		
			Pleistocene	Upper		0.126	
				Middle		0.781	
			Pliocene	Gelasian		1.806	🔪
				Piacenzian		2.588	🔪
		Zanclean			5.332	🔪	
		Neogene	Miocene	Messinian		7.246	🔪
				Tortonian		11.608	🔪
				Serravallian		13.82	🔪
				Langhian		15.97	🔪
	Burdigalian				20.43	🔪	
	Oligocene		Aquitanian		23.03	🔪	
			Chattian		28.4 ± 0.1	🔪	
			Rupelian		33.9 ± 0.1	🔪	
			Eocene	Priabonian		37.2 ± 0.1	🔪
				Bartonian		40.4 ± 0.2	🔪
	Lutetian			48.6 ± 0.2	🔪		
	Paleocene	Ypresian		55.8 ± 0.2	🔪		
		Thanetian		58.7 ± 0.2	🔪		
		Selandian		61.7 ± 0.2	🔪		
		Danian		65.5 ± 0.3	🔪		
		Maastrichtian		70.6 ± 0.6	🔪		
	Mesozoic	Cretaceous	Upper	Campanian		83.5 ± 0.7	🔪
				Santonian		85.8 ± 0.7	🔪
				Coniacian		89.3 ± 1.0	🔪
				Turonian		93.5 ± 0.8	🔪
				Cenomanian		99.6 ± 0.9	🔪
			Lower	Albian		112.0 ± 1.0	🔪
				Aptian		125.0 ± 1.0	🔪
				Barremian		130.0 ± 1.5	🔪
Hauterivian					136.4 ± 2.0	🔪	
Valanginian					140.2 ± 3.0	🔪	
Berriasian			145.5 ± 4.0	🔪			

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Phanerozoic	Mesozoic	Jurassic	Upper	Tithonian		145.5 ± 4.0	
				Kimmeridgian		150.8 ± 4.0	
				Oxfordian		155.7 ± 4.0	
			Middle	Callovian		161.2 ± 4.0	
				Bathonian		164.7 ± 4.0	
				Bajocian		167.7 ± 3.5	
			Lower	Aalenian		171.6 ± 3.0	
				Aalenian		175.6 ± 2.0	
			Triassic	Upper	Toarcian		183.0 ± 1.5
					Pliensbachian		189.6 ± 1.5
		Sinemurian				196.5 ± 1.0	
		Lower		Hettangian		199.6 ± 0.6	
				Rhaetian		203.6 ± 1.5	
		Paleozoic	Permian	Upper	Norian		216.5 ± 2.0
					Carnian		228.0 ± 2.0
	Ladinian					237.0 ± 2.0	
	Middle			Anisian		245.0 ± 1.5	
				Olnekian		249.7 ± 0.7	
	Lower			Induan		251.0 ± 0.4	
				Changhsingian		253.8 ± 0.7	
				Wuchiapingian		260.4 ± 0.7	
	Carboniferous			Guadalupian	Capitanian		265.8 ± 0.7
					Wordian		268.0 ± 0.7
			Roadian			270.6 ± 0.7	
			Cisuralian	Kungurian		275.6 ± 0.7	
				Artinskian		284.4 ± 0.7	
	Mississippian		Upper	Sakmarian		294.6 ± 0.8	
				Asselian		299.0 ± 0.8	
		Gzhelian			303.9 ± 0.9		
		Middle	Kasimovian		306.5 ± 1.0		
Moscovian				311.7 ± 1.1			
Lower	Bashkirian		318.1 ± 1.3				
	Serpukhovian		326.4 ± 1.6				
Cambrian	Series 3	Viséan		345.3 ± 2.1			
		Tournaisian		359.2 ± 2.5			
		Stage 1		542.0 ± 1.0			
	Series 2	Stage 2		~ 534.6 *			
		Stage 3		~ 521.0 *			
Series 1	Stage 4		~ 517.0 *				
	Stage 5		~ 510.0 *				

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Phanerozoic	Paleozoic	Devonian	Upper	Famennian		359.2 ± 2.5	
				Frasnian		374.5 ± 2.6	
				Givetian		385.3 ± 2.6	
			Middle	Eifelian		391.8 ± 2.7	
				Emsian		397.5 ± 2.7	
				Pragian		407.0 ± 2.8	
			Lower	Lochkovian		411.2 ± 2.8	
				Pridoli		416.0 ± 2.8	
			Silurian	Ludlow	Ludfordian		418.7 ± 2.7
					Gorstian		421.3 ± 2.6
		Wenlock		Homerian		422.9 ± 2.5	
				Sheinwoodian		426.2 ± 2.4	
				Telychian		428.2 ± 2.3	
		Ordovician	Upper	Aeronian		436.0 ± 1.9	
				Rhuddanian		439.0 ± 1.8	
	Hirnantian				443.7 ± 1.5		
	Middle		Katian		445.6 ± 1.5		
			Sandbian		445.8 ± 1.6		
	Cambrian	Lower	Darriwilian		460.9 ± 1.6		
			Stage 3		468.1 ± 1.6		
			Floian		478.6 ± 1.7		
		Upper	Tremadocian		488.3 ± 1.7		
			Stage 10		~ 492.0 *		
	Precambrian	Proterozoic	Neoproterozoic	Stage 9		~ 496.0 *	
				Stage 8		501.0 ± 2.0	
				Stage 7		~ 503.0 *	
			Mesoproterozoic	Stage 6		~ 506.5 *	
				Stage 5		~ 510.0 *	
		Archean	Paleoproterozoic	Stage 4		~ 517.0 *	
				Stage 3		~ 521.0 *	
Stage 2					~ 534.6 *		
Neoproterozoic			Stage 1		542.0 ± 1.0		
			Stage 1		542.0 ± 1.0		

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			Pliocene	1.806	🔪
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		5.332		🔪	
		Neogene	Miocene	7.246	🔪
				11.608	🔪
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				15.97	🔪
	20.43			🔪	
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40.4 ± 0.2				🔪	
48.6 ± 0.2	🔪				
Paleocene	55.8 ± 0.2	🔪			
	58.7 ± 0.2	🔪			
	61.7 ± 0.2	🔪			
	65.5 ± 0.3	🔪			
	70.6 ± 0.6	🔪			
Mesozoic	Cretaceous	Upper	83.5 ± 0.7	🔪	
			85.8 ± 0.7	🔪	
			89.3 ± 1.0	🔪	
			93.5 ± 0.8	🔪	
			99.6 ± 0.9	🔪	
		Lower	112.0 ± 1.0	🔪	
			125.0 ± 1.0	🔪	
			130.0 ± 1.5	🔪	
			136.4 ± 2.0	🔪	
			140.2 ± 3.0	🔪	
	Paleozoic	Permian	251.0 ± 0.4	🔪	
			253.8 ± 0.7	🔪	
			260.4 ± 0.7	🔪	
			265.8 ± 0.7	🔪	
			268.0 ± 0.7	🔪	
Precambrian	Proterozoic	Neoproterozoic	~ 542	🔪	
			~ 630	🔪	
			850	🔪	
		Mesoproterozoic	1000	🔪	
			1200	🔪	
	Paleoproterozoic	1400	🔪		
		1600	🔪		
		1800	🔪		
	Archean	Neoarchean	2050	🔪	
			2300	🔪	
2500			🔪		
Mesoarchean		2800	🔪		
		3200	🔪		
Paleoarchean	3600	🔪			
	Eoarchean	Lower limit is not defined			

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

International chronostratigraphic units, rank, names and formal status are approved by the International Commission on Stratigraphy (ICS) and ratified by the International Union of Geological Sciences (IUGS).

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

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

The listed numerical ages are from 'A Geological Time Scale 2004', by F.M. Gradstein, J.G. Ogg, A.G. Smith, et al. (2004; Cambridge University Press).

This chart was drafted by Gabi Ogg. Intra Cambrian unit ages with * are informal, and awaiting ratified definitions.

* The status of the Quaternary is not yet decided. Its base may be assigned as the base of the Gelasian and extend the base of the Pleistocene to 2.6 Ma.