



Eonothem	Erathem	System	Series	Stage	GSSP	Numeric Age
Phanerozoic	Cenozoic	Quaternary	Holocene	Meghalayan		Present
				Northgrippian		0.0042
				Greenlandian		0.0082
			Pleistocene	Upper		0.0117
				Chibanian		0.129
				Calabrian		0.774
		Neogene	Pliocene	Gelasian		1.80
				Piacenzian		2.58
				Zanclean		3.600
			Miocene	Messinian		5.333
				Tortonian		7.246
				Serravallian		11.63
				Langhian		13.82
				Burdigalian		15.98
				Aquitania		20.45
			Oligocene	Chattian		23.04
				Rupelian		27.30
			Eocene	Priabonian		33.9
				Bartonian		37.71
				Lutetian		41.03
				Ypresian		48.07
				Thanetian		56.00
	Mesozoic	Cretaceous	Paleocene	Selandian		59.24
				Danian		61.66
						66.00
			Upper Cretaceous	Maastrichtian		66.00
				Campanian		72.2 ± 0.2
				Santonian		83.6 ± 0.2
				Coniacian		85.7 ± 0.2
				Turonian		89.8 ± 0.3
				Cenomanian		93.9 ± 0.2
			Lower Cretaceous	Albian		100.5 ± 0.1
				Aptian		113.2 ± 0.3
				Barremian		121.4 ± 0.6
				Hauterivian		125.77
				Valanginian		132.6 ± 0.6
				Berriasian		137.05 ± 0.2
						143.1 ± 0.6

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Phanerozoic	Mesozoic	Jurassic	Upper Jurassic	Tithonian		143.1 ± 0.6
				Kimmeridgian		149.2 ± 0.7
				Oxfordian		154.8 ± 0.8
			Middle Jurassic	Callovian		161.5 ± 1.0
				Bathonian		165.3 ± 1.1
				Bajocian		168.2 ± 1.2
				Aalenian		170.9 ± 0.8
				Toarcian		174.7 ± 0.8
			Lower Jurassic	Pliensbachian		184.2 ± 0.3
				Sinemurian		192.9 ± 0.3
				Hettangian		199.5 ± 0.3
						~201.4 ± 0.2
						~205.7
	Paleozoic	Triassic	Upper Triassic	Rhaetian		
				Norian		
				Carnian		~227.3
			Middle Triassic	Ladinian		~237
				Anisian		241.464 ± 0.28
				Olenekian		247.0
			Lower Triassic	Induan		250.8
				Changhsingian		251.902 ± 0.024
				Wuchiapingian		254.14 ± 0.07
		Permian	Lopingian	Capitanian		259.857 ± 0.084
				Wordian		264.28 ± 0.16
			Guadalupian	Roadian		266.9 ± 0.4
				Kungurian		274.4 ± 0.4
			Cisuralian	Artinskian		283.3 ± 0.4
				Sakmarian		290.1 ± 0.26
Phanerozoic	Paleozoic	Carboniferous	Pennsylvanian	Asselian		293.52 ± 0.17
				Gzhelian		298.9 ± 0.15
				Kasimovian		303.7 ± 0.1
				Moscovian		307.0 ± 0.1
				Bashkirian		315.2 ± 0.2
				Serpukhovian		323.4 ± 0.4
		Mississippian	Upper Mississippian	Visean		330.3 ± 0.4
						346.7 ± 0.4
				Tournaisian		358.86 ± 0.19
			Middle Mississippian			
			Lower Mississippian			

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Phanerozoic	Paleozoic	Devonian	Upper Devonian	Famennian		358.86 ± 0.19
				Frasnian		372.15 ± 0.46
				Givetian		382.31 ± 1.36
			Middle Devonian	Eifelian		387.95 ± 1.04
				Emsian		393.47 ± 0.99
			Lower Devonian	Pragian		410.62 ± 1.95
				Lochkovian		413.02 ± 1.91
						419.62 ± 1.36
		Silurian	Pridoli	Ludfordian		422.7 ± 1.6
				Gorstian		425.0 ± 1.5
			Wenlock	Homerian		426.7 ± 1.5
				Sheinwoodian		430.6 ± 1.3
			Llandovery	Telychian		432.9 ± 1.2
				Aeronian		438.6 ± 1.0
				Rhuddanian		440.5 ± 1.0
		Ordovician	Upper Ordovician	Hirnantian		443.1 ± 1.0
				Katian		445.2 ± 0.9
				Sandbian		452.8 ± 0.7
			Middle Ordovician	Darriwilian		458.2 ± 0.7
				Dapingian		469.4 ± 0.9
				Floian		471.3 ± 1.4
			Lower Ordovician	Tremadocian		477.1 ± 1.2
						~486.85 ± 1.5
						~491.0
Phanerozoic	Paleozoic	Cambrian	Furongian	Cambrian Stage 10		~494.2
				Jiangshanian		~497.0
				Paibian		~499.0
			Miaolingian	Guzhangian		~500.5
				Drumian		~504.5
				Wuliuan		~506.5
			Cambrian Series 2	Cambrian Stage 4		~514.5
				Cambrian Stage 3		~521.0
				Cambrian Stage 2		~529.0
			Terreneuvian	Fortunian		~538.8 ± 0.6

Supereonothem		Erathem	System	GSSP	GSSA	Numeric Age
Precambrian	Proterozoic	Neoproterozoic	Ediacaran			~538.8 ± 0.6
			Cryogenian			~635
			Tonian			~720
		Mesoproterozoic	Stenian			1000
			Ectasian			1200
			Calymmian			1400
		Paleoproterozoic	Statherian			1600
			Orosirian			1800
			Rhyacian			2050
	Siderian				2300	
	Archean	Neoarchean				2500
		Mesoarchean				2800
		Paleoarchean				3200
		Eoarchean				3600
		Hadean				4031 ± 3

Units of all ranks are in the process of being defined by Global Boundary Stratotype Section and Points (GSSP) for their lower boundaries, including those of the Archean and Proterozoic, long defined by Global Standard Stratigraphic Ages (GSSA). Ratified Subseries/Subepochs are abbreviated as U/L (Upper/Late), M (Middle) and L/E (Lower/Early). Italic fonts indicate informal units and placeholders for unnamed units. Previous versions and detailed information on ratified GSSPs are available at the website <http://www.stratigraphy.org>. The URL to this chart is provided below.

Numerical ages are subject to ongoing revision and do not define units in the Phanerozoic and the Ediacaran; only GSSPs do. For boundaries in the Phanerozoic without ratified GSSPs or without constrained numerical ages, an approximate numerical age (–) is provided.

Most numerical ages are taken from 'A Geologic Time Scale 2020' by Gradstein et al. (2020), but some ages differ as provided by the relevant ICS subcommissions, with advice from the Timescale Calibration subcommission. These are approved by the ICS executive as the current consensus.

Colouring follows the Commission for the Geological Map of the World (www.ccgw.org)

Chart generated from data at www.stratigraphy.org, maintained by ICS officers (N. Car, K.M. Cohen) and ICS executive. The chart is product of all ICS members past and present.

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