

International Chronostratigraphic Chart

#

https://stratigraphy.org

International Commission on Stratigraphy

v2024/12

	zem	m.	Δ.		
Fou	klaji Kaji	ier ste	Series	Stages	Numeric Age
Phanerozoic Phanerozoic	enozoic	ternary	Holocene	Meghalayan Northgrippian Greenlandian	Present 0.0042 0.0082
Phan	ŏ	ong	Pleistocene	Upper Chibanian Calabrian Gelasian	0.0117 0.129 0.774 1.80
		Neogene	Pliocene	Piacenzian Zanclean	2.58 3.600
			Miocene	Messinian Tortonian	5.333 7.246
				Serravallian Langhian Burdigalian	11.63 13.82 15.98
			Oligogono	Aquitanian Chattian	20.45 23.04
		Paleogene	Oligocene	Rupelian	27.30
			Eocene	Priaboniar Bartonian	33.9 37.71 41.03
				Lutetian Ypresian	48.07
			Paleocene	Thanetian	56.00 59.24
				Selandian C	61.66 66.00
	Mesozoic	Cretaceous	Upper	Maastrichtien Campanian	72.2 ± 0.2
				Santoniar	83.6 ± 0.2 85.7 ± 0.2
				Coniacian Turonian	89.8 ± 0.3 93.9 ± 0.2
			Lower	Cenomanian Albian	100.5 ± 0.1
				Aptian	113.2 ± 0.3
				Barremiar Hauterivian	121.4 ± 0.6 125.77
				Valanginia	132.6 ± 0.6
				Berriasian	137.05 ± 0.2 143.1 ± 0.6

,	Hell	oll	<i>.</i> 0		0			
FOUC	Elath Elath	Cy.	ie.	Series	Stages	Numeric Age	4	
ن ن				Upper	Tithonian	143.1 ± 0.6		
OZC	OZC	Jurassic			Kimmeridgi ≼ r	149.2 ± 0.7		
ner	Mesozoic	Jur			Oxfordian	154.8 ± 0.8		
Phanerozoic			_	Middle	Callovian	161.5 ± 1.0		
_				Middle	Bathoniar	165.3 ± 1.1	l.	
					Bajocian	168.2 ± 1.2		
					Aalenian	170.9 ± 0.8		
				Lower	Toarcian	174.7 ± 0.8		
						184.2 ± 0.3		
					Pliensbachia	192.9 ± 0.3		
					Sinemuriar			
					Hettangia	199.5 ± 0.3 ~201.4 ± 0.2		
		Triassic		Upper	Rhaetian			
					Norian	~205.7		
					Cornian	~227.3		
					Carnian	. 227		
				Middle	Ladinian	~237		
					Anisian	241.464 ± 0.28		
				Lower	Olenekian	246.7		
					Induan 🔨	249.9 251.902 ± 0.024		
	Paleozoic	Permian	L	opingian	Changhsing	254.14 ± 0.07		
					Wuchiaping	259.51 ± 0.21		
			Gı	uadalupian	Capitania	264.28 ± 0.16		
					Wordian	266.9 ± 0.4		
					Roadian			
				Cisuralian	Kungurian	274.4 ± 0.4		
						Artinskiar	283.3 ± 0.4	
						Sakmaria	290.1 ± 0.26	
						Asselian	293.52 ± 0.17	
		S	5	Upper	Gzhelian	298.9 ± 0.15		
		irol	ania		Kasimovian	303.7 ± 0.1		
		Carboniferous	Mississippian Pennsylvaniar	Middle	Moscovian	307.0 ± 0.1		
				Lower	Bashkiriag	315.2 ± 0.2		
			<u> С</u>	Upper	Serpukhoviar	323.4 ± 0.4		
			ppia	Middle	Visean	330.3 ± 0.4		
			ssip	Wildule	Viscaii			
			issi	Lower	Tournaisian	346.7 ± 0.4		
			Σ		1	358.86 ± 0.19		

Four	Erati	Syste	Series	Stages	Numeric Age
> Sic)ic		Upper	Famennian	358.86 ± 0.19
Phanerozoic	Paleozoic	Devonian		Frasnian	372.15 ± 0.46
Pha	<u></u>		Middle	Givetian≤	382.31 ± 1.36
				Eifelian 🗸	387.95 ± 1.04
			Lower	Emsian	393.47 ± 0.99
					440.00 . 4.05
				Pragian <	410.62 ± 1.95
				Lochkoviag	413.02 ± 1.91
		E	Prido	li 🔦	419.62 ± 1.36
		Silurian	Ludlow	Ludfordiar	422.7 ± 1.6
		S		Gorstian	425.0 ± 1.5
			Wenlock	Homerian	426.7 ± 1.5
				Sheinwood	430.6 ± 1.3
			Llandovery	Telychian	432.9 ± 1.2
				Aeronian	438.6 ± 1.0
				Rhuddania	440.5 ± 1.0
		an	Upper	Hirnantiar	443.1 ± 1.0
		vici		Katian	445.2 ± 0.9
		Ordovician		Sandbian	452.8 ± 0.7
			Middle	Darriwilian	458.2 ± 0.7
				Dapingiar	469.4 ± 0.9
			Lower	Floian 🖪	471.3 ± 1.4
			201101	Tremadocian	477.1 ± 1.2
		⊆	Furongian	Stage 10	~486.85 ± 1.5
		brian	3	Jiangshani	~491.0
		Cambi		Paibian <	~494.2
		O	Miaolingian	Guzhangia	~497.0
				Drumian	~500.5
				Wuliuan	~504.5
			Series 2	Stage 4	~506.5
				Stage 3	~514.5
			Terreneuvian	Stage 2	~521.0
				Fortunian	~529.0
					~538.8 ± 0.6

,0 ⁸	e e ono	Erathem Neoproterozoic	S S S	V ഗ ഗ സ്Numeric Age		
SN,	∜ 0.	Erathem	Systemo			
Precambrian	Proterozoic	Neoproterozoic	Ediacaran Cryogenian Tonian	~538.8 ± 0.6 ~635 ~720		
	Pro	Mesoproterozoic	Stenian @	1 000		
		·				
			Ectasian Calymmian	1400		
		Paleoproterozoic	Statherian @	1600		
			Orocirion	1800		
			Physian	2050		
				7.500		
		Neoar		2500		
	Archean	Mesoa	€	2800		
	Ard	Paleoarchean		3200		
		Eoard	3600			
		Hadea	n (e	4031 ± 3		
			•	4567		
Units of	Inits of all ranks are in the process of being defined by Global Boundary Stratotype Section and Points					

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.

Chart drafted and maintained online by officers K.M. Cohen and N. Car. The chart is a product of collective work by all ICS members past and present.

(c) International Commission on Stratigraphy, December 2024.

Reference: The ICS international chronostratigraphic chart this decade. Episodes 2025; https://doi.org/10.18814/epiiugs/2025/025001

URL: https://stratigraphy.org/chart