

Divisions of Geologic Time

EON	ERA	PERIOD, SUBPERIOD	EPOCH	Age estimates of boundaries in mega-annum (Ma)		
Phanerozoic	Cenozoic (Cz)	Quaternary (Q)	Holocene	0.0117		
			Pleistocene			
		Tertiary (T)	Neogene (N)	Pliocene	2.58	
				Miocene	5.33	
			Paleogene (P_e)	Oligocene	23.03	
				Eocene	34.09	
				Paleocene	55.9	
					66.0	
			Mesozoic (Mz)	Cretaceous (K)		
				Jurassic (J)		~145
	Triassic (T_r)			201.3 ± 0.2		
	Paleozoic (Pz)	Permian (P)		251.9		
				298.9 ± 0.2		
		Carboniferous (C)	Pennsylvanian (P_p)		323.2 ± 0.4	
					358.9 ± 0.4	
			Mississippian (M)			
		Devonian (D)		419.2 ± 3.2		
		Silurian (S)		443.8 ± 1.5		
		Ordovician (O)		485.4 ± 1.9		
		Cambrian (C_r)		541.0 ± 1.0		

EON	ERA	PERIOD	Age estimates of boundaries in mega-annum (Ma)	
Proterozoic (P)	Neoproterozoic (Z)	Ediacaran	~635	
		Cryogenian		
		Tonian		
	Mesoproterozoic (Y)	Stenian	1,000	
		Ectasian	1,200	
		Calymmian	1,400	
	Paleoproterozoic (X)	Statherian	1,600	
		Orosirian	1,800	
		Rhyacian	2,050	
		Siderian	2,300	
	Archean (A)	Neoarchean		2,500
		Mesoarchean		2,800
		Paleoarchean		3,200
Eoarchean			3,600	
Hadean (pA)			~4,000	
			~4,600	

Ages shown for divisions of geologic time are general representations. Ages in mega-annum mean millions of years before present. Box heights are related to how long time periods lasted; different scaling factors are used for the column on the front of the bookmark and for the column on the back, which represents a much longer time period. Map symbols are in parentheses. For more specific age information, see U.S. Geological Survey Fact Sheet 2018-3054 (<https://doi.org/10.3133/fs20183054>).

General Information Product 141
Version 2.0, March 2020

ISSN 2332-3531 (print)
ISSN 2332-354X (online)
<https://doi.org/10.3133/gip141>

<https://www.usgs.gov>
1-888-ASK-USGS



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