History of the Earth

Age (Ma)	Eon	Era	Period
	Phanerozoic	Cenozoic	Neogene
			Paleogene
		Mesozoic	Cretaceous
			Jurassic
			Triassic
		Paleozoic	Permian
			Carboniferous
			Devonian
			Silurian
			Ordovician
			Cambrian
	Proterozoic	Neoproterozoic	Ediacaran
			Cryogenian
			Tonian
		Mesoproterozoic	Stenian
			Ectasian
			Calymmian
		Paleoproterozoic	Statherian
			Orosirian
			Rhyacian
			Siderian
	Archean	Neoarchean	
		Mesoarchean	
		Paleoarchean	
		Eoarchean	
		Lower limit is not defined	

Age (Ma) scale: 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100

Era	Period	Epoch	Stage	AGE (Ma)
Cenozoic	Neogene	Holocene		
		Pleistocene		1.81
		Pliocene L	Gelasian/Piacenzian	
		Pliocene E	Zanclean	5.33
		Miocene L	Messinian	
			Tortonian	
		Miocene M	Serravallian	
			Langhian	
		Miocene E	Burdigalian	
			Aquitanian	23.0
	Paleogene	Oligocene L	Chattian	
		Oligocene E	Rupelian	33.9
		Eocene L	Priabonian	
		Eocene M	Bartonian	
			Lutetian	
		Eocene E	Ypresian	55.8
		Paleocene L	Thanetian	
		Paleocene M	Selandian	
		Paleocene E	Danian	65.5
Mesozoic	Cretaceous	Late	Maastrichtian	
			Campanian	
			Santonian	
			Coniacian	
			Turonian	
			Cenomanian	99.6
		Early	Albian	
			Aptian	
			Barremian	
			Hauterivian	
			Valanginian	
			Berriasian	145.5
	Jurassic	Late	Tithonian	
			Kimmeridgian	
			Oxfordian	161.2
		Middle	Callovian	
			Bathonian	
			Bajocian	
			Aalenian	175.6
		Early	Toarcian	
			Pliensbachian	
			Sinemurian	
			Hettangian	199.6
	Triassic	Late	Rhaetian	
			Norian	
			Carnian	228.0
		Middle	Ladinian	
			Anisian	245.0
		Early	Olenekian	
			Induan	251.0
Paleozoic	Permian	Lopingian	Changhsingian	
			Wuchiapingian	260.4
		Guadalupian	Capitanian	
			Wordian/Roadian	270.6
		Cisuralian	Kungurian	
			Artinskian	
			Sakmarian	
			Asselian	299.0
	Carboniferous	Pennsylvanian Late	Gzhelian	
			Kasimovian	
		Pennsylvanian Middle	Moscovian	
		Pennsylvanian Early	Bashkirian	318.1
		Mississippian Late	Serpukhovian	
		Mississippian Middle	Visean	
		Mississippian Early	Tournaisian	359.2
	Devonian	Late	Famennian	
			Frasnian	385.3
		Middle	Givetian	
			Eifelian	397.5
		Early	Emsian	
			Pragian	
			Lochkovian	416.0
	Silurian	Pridoli		418.7
		Ludlow	Ludfordian/Gorstian	422.9
		Wenlock	Homerian/Sheinwoodian	428.2
		Llandovery	Telychian	
			Aeronian/Rhuddanian	443.7
	Ordovician	Late	Himantian	
				460.9
		Middle	Darriwilian	
				471.8
		Early		
			Tremadocian	488.3
	Cambrian	Furongian		
			Paibian	501
		Middle		513
		Early		542

Paleogeographic Maps

Early Neogene

Late Cretaceous

Early Cretaceous

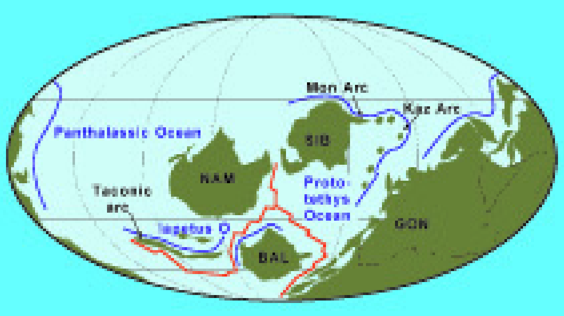
Late Triassic

Middle Permian

Middle Mississippian

Early Middle Devonian

Middle Ordovician



Early Cambrian

Earth History

International divisions of geologic time (eras, periods, epochs, stages) are standardized by the International Commission on Stratigraphy (ICS, www.stratigraphy.org). The color scheme of the Commission for the Geological Map of the World is shown for these divisions, and their numerical ages are from "A Geologic Time Scale 2004" (Gradstein et al., Cambridge University Press). Paleogeographic maps were provided courtesy of Ron Blakey, which used plate positions modified from Chris Scotese. The evolution of life is modified from John Gurche's painting "Tower of Time" (© Smithsonian Institution). This chart was compiled and drafted by Gabi Ogg and Bruce Wardlaw.

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