



## PHANEROZOIC

CENOZOIC						
Ma	PERIOD	EPOCH	AGE	AGE Ma	DURATION m.y.	
0	QUAT.	HOLOCENE		0.01	1.8	
		PLEISTOCENE		1.8	1.8	
5	NEOGENE	PLIOCENE	L Pia Piacenzian	3.6	1.8	
			E Zan Zanclean	5.3	1.7	
		MIOCENE	Mes Messinian	7.1	1.8	
			L Tor Tortonian	11.2	4.1	
			Srv Serravallian	14.8	3.6	
			Lan Langhian	16.4	1.6	
			Bur Burdigalian	20.5	4.1	
			Aqt Aquitanian	23.8	3.3	
			OLIGOCENE	L Cht Chattian	28.5	4.7
				E Rup Rupelian	33.7	5.2
Eocene	L Prb Priabonian	37.0		3.3		
	Brn Bartonian	41.3		4.3		
PALEOGENE	Eocene	M Lut Lutetian	49.0	7.7		
		E Ypr Ypresian	54.8	5.8		
		L Tha Thanetian	57.9	3.1		
		E Dan Danian	61.0	4.0		

MESOZOIC				
Ma	PERIOD	AGE	AGE 95% confidence level	DURATION m.y.
65	CRETACEOUS	Maa Maastrichtian	65.0 ± 0.1	6.3
70		Cmp Campanian	71.3 ± 0.5	12.2
80		San Santonian	83.5 ± 0.5	2.3
		Con Coniacian	85.8 ± 0.5	3.2
		Tur Turonian	89.0 ± 0.5	4.5
		Cen Cenomanian	93.5 ± 0.2	5.4
100		Alb Albian	98.9 ± 0.6	13.3
110		Apt Aptian	112.2 ± 1.1	8.8
120		Barremian	121.0 ± 1.4	6.0
130		Hauterivian	127.0 ± 1.6	5.0
140	JURASSIC	Valg Valanginian*	132.0 ± 1.9	4.5
		Rya Ryazanian*	136.5 ± 2.2	5.4
		Ber Berriasian	137.0 ± 2.2	5.4
		Vol Volgian*	142.0 ± 2.6	8.8
		Port Portlandian*	144.2 ± 2.6	8.8
		Tit Thithonian	145.6	8.8
150		Kim Kimmeridgian*	150.7 ± 3.0	3.4
		Oxf Oxfordian	154.1 ± 3.3	5.3
160		Cal Callovian	159.4 ± 3.6	5.0
170		Bath Bathonian	164.4 ± 3.8	4.8
180	TRIASSIC	Baj Bajocian	169.2 ± 4.0	7.3
		Aal Aalenian	176.5 ± 4.0	3.6
		Toa Toarcian	180.1 ± 4.0	9.5
190		Pli Pliensbachian	189.6 ± 4.0	5.7
		Sin Sinemurian	195.3 ± 3.9	6.6
		Het Hettangian	201.9 ± 3.9	3.8
200		Rha Rhaetian	205.7 ± 4.0	3.9
210		Nor Norian	209.6 ± 4.1	11.1
		Se Sevastian	211.0	
		Ala Alaunian	216.0	
220	Carn Carnian	220.7 ± 4.4	6.7	
230	Lad Ladinian	225.0		
	Tuv Tuvanian	227.4 ± 4.5	6.9	
	Jul Julian	231.4		
	Lon Longobardian	234.3 ± 4.6	7.4	
240	An Anisian	236.1		
	Il Illyrian	237.5		
	Per Pelsonian	239.4		
	Sm Smithian	241.7 ± 4.7	3.1	
245	Ole Olenekian	243.2		
	Sp Spathian	244.8 ± 4.8	3.4	
	Ind Induan	246.3		
	Di Dienerian	248.2 ± 4.8	3.4	
	Gne Gnesbachian			

PALEOZOIC					
Ma	PERIOD	EPOCH / AGE	AGE Ma	DURATION m.y.	
248.2	PERMIAN	Tat Tatarian	252.1	3.9	
		Kaz Ufimian - Kazanian	256.0	3.9	
		Kun Kungurian	260.0	4.0	
260		Art Artinskian	269.0	9.0	
		Sak Sakmarian	282.0	13.0	
280		Ass Asselian	290.0	8.0	
		Gze Gzelian	296.5	6.5	
		Kas Kasimovian	303.0	6.5	
		Mos Moscovian	311.0	8.0	
		Bsh Bashkirian	323.0	12.0	
300	CARBONIFEROUS	Spk Serpukhovian	327.0	4.0	
		Vis Viséan	342.0	15.0	
320		Tou Tournaisian	354.0	12.0	
		Fam Famennian	364.0	10.0	
340		Frs Frasnian	370.0	6.0	
		Giv Givetian	380.0	10.0	
360		Eif Eifelian	391.0	11.0	
		Ems Emsian	400.0	9.0	
380		Pra Pragian	412.0	12.0	
		Loc Lochkovian	417.0	5.0	
400	DEVONIAN	Prd Pridoli	419.0	2.0	
		Lud Ludlow	423.0	4.0	
420		Wen Wenlock	428.0	5.0	
		Lia Llandovery	443.0	15.0	
440		Ash Ashgill	449.0	6.0	
		Car Caradoc	458.0	9.0	
460		Llan Llandeilo	464.0	6.0	
		Llv Llanvirn	470.0	6.0	
480		Aren Arenig	485.0	15.0	
		Tre Tremadoc	495.0	10.0	
500	SILURIAN	Cbn Cambrian	505.0	10.0	
		Len Lenian	518.0	13.0	
520		Atd Atdabanian	524.0	6.0	
		Tom Tommotian	530.0	6.0	
		Nem Nemakitian-Daldynian	534.0	4.0	
540					

**Cenozoic:** Berggren, W.A., et al., 1995 - SEPM Spec.Publ. 54: 130-212.  
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