OLLI Age of Reptiles

Fall 2022 with Nicole Myers Week 6

Geologic Time Scale								
		EUN	EKA	PERIOD			Holocene	- Present
		Phanerozoic	Cenozoic	Quaternary			Pleistocene	- 0.01
				H		ne	Pliocene	- 2.6
				Tertiary		Neogene	Miocene	- 5.3
					Paleogene N	Oligocene	- 23.0	
				Ter		Eocene	- 33.9	
						Paleocene	- 55.8	
			Mesozoic	Cretaceous				- 65.5
				Jurassic				- 145.5
				Triassic				- 199.6
			Paleozoic	Permian				- 251
				Carboniferous	Pennsylvanian			- 299
					Mississippian			- 318
				చ	Devonian			- 359.2
				Silurian				- 416
				Ordovician				- 443.7
				Cambrian				- 488.3
		Proterozoic Archean Hadean						542
	rian							2500
	amb							
	eca							4000
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Digital presentations associated with the course & handouts will be available at: https://www.appreciatingearth.com/olli

Simplified Geologic Time Scale, this last week we focus on the diversification & extinction of reptiles at the end of the Cretaceous Period of the Mesozoic Era, the Age of Reptiles. Simplified Geologic Time Scale from: Spooner, Alecia M. "The Geologic Timescale." *Dummies*. A Wiley Brand. https://www.dummies.com/education/science/the-geologic-timescale/

Cladograms: We focus on the reptilians of the Cretaceous period, as life covered in scales and feathers diversified on landmasses separated by tectonic divergence & rising sea levels....until a giant space object collided with Earth and ended the Age of the Reptiles.

Brusatte, S.L., O'Connor, J.K., Jarvis, E.D. (2015). The origin and diversification of birds. *Current Biology* **25**, R888–R898. The relationships of birds and the evolution of key traits. *Solid black lines* indicate the span of time each lineage is known from the fossil record. https://www.researchgate.net/figure/Summary-phylogeny-genealogical-tree-of-birds fig2 282646227

