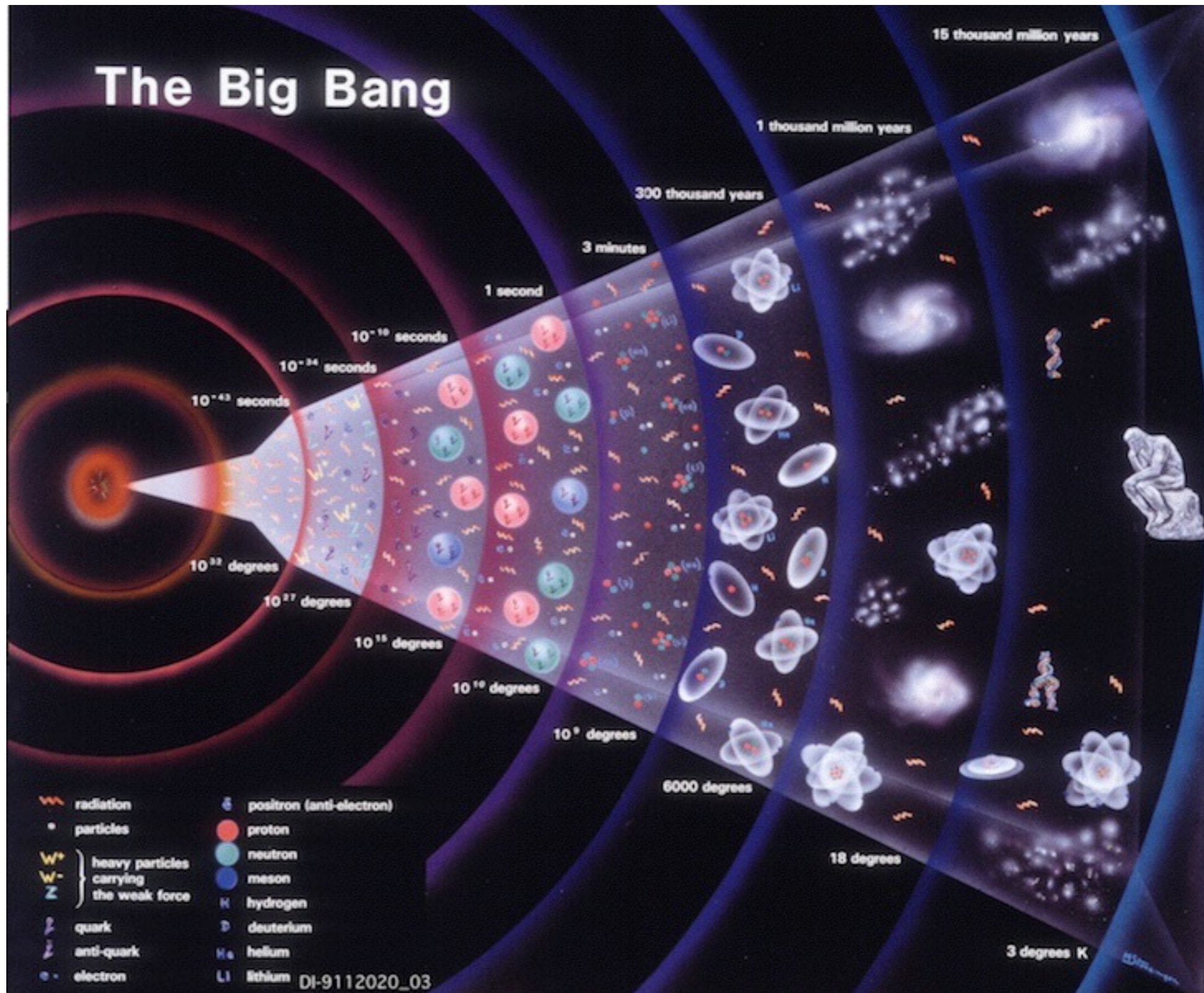


Planetary Geology



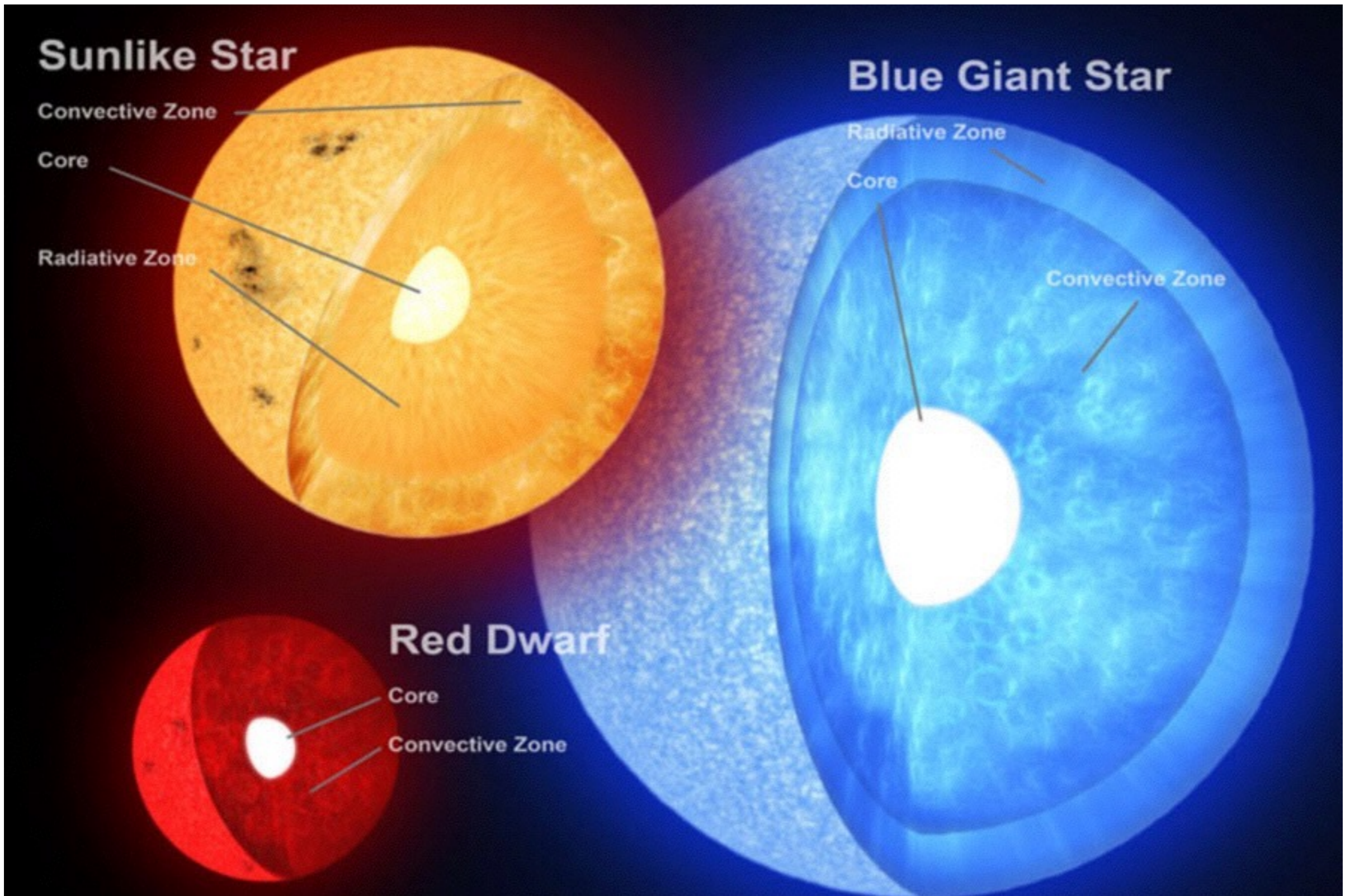
The Big Bang



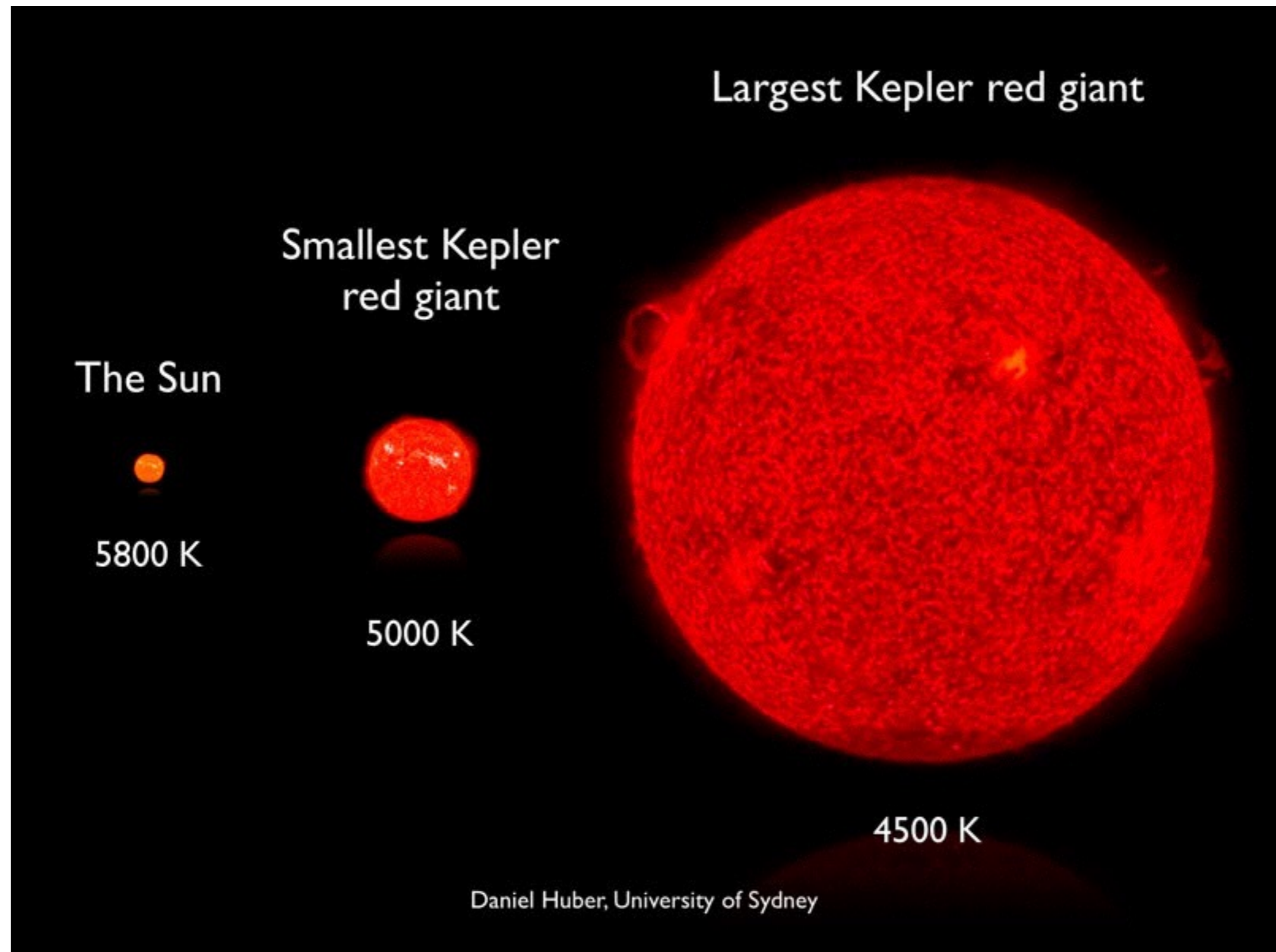
The Birth of a Star



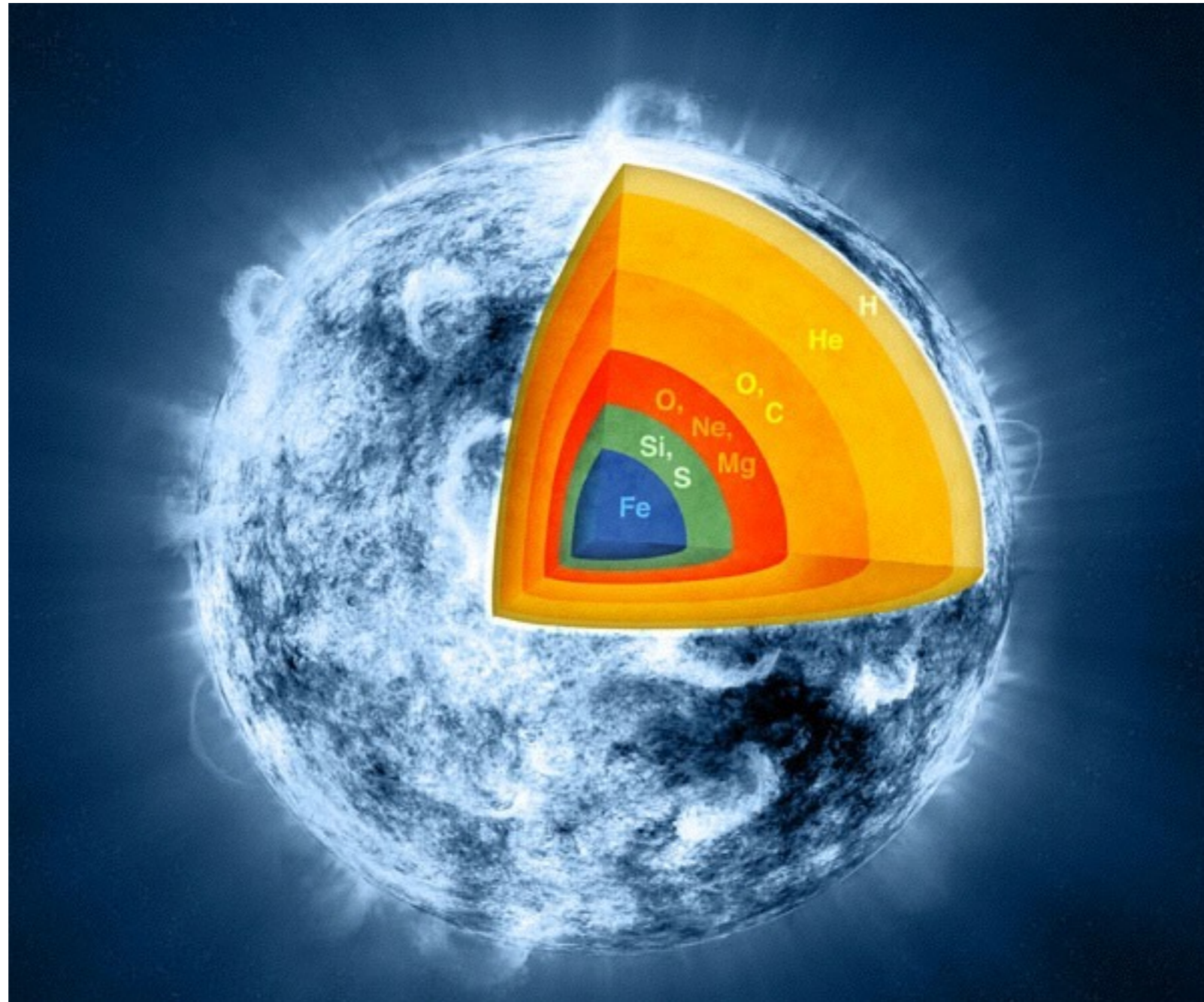
The Interior of Stars



The Sun - A Red Giant ?



Nucleosynthesis in Massive Stars



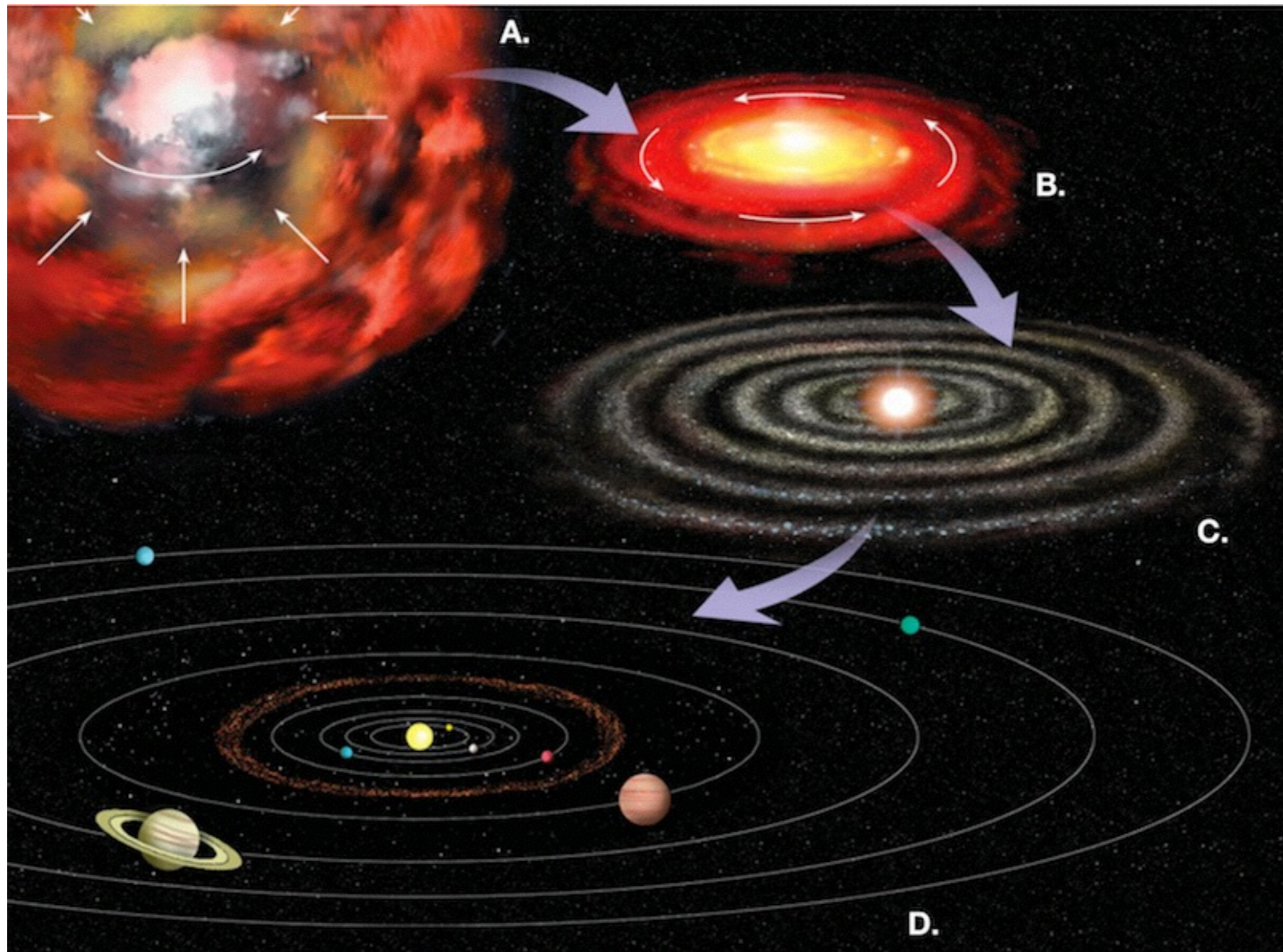
The Supernova of a Massive Star



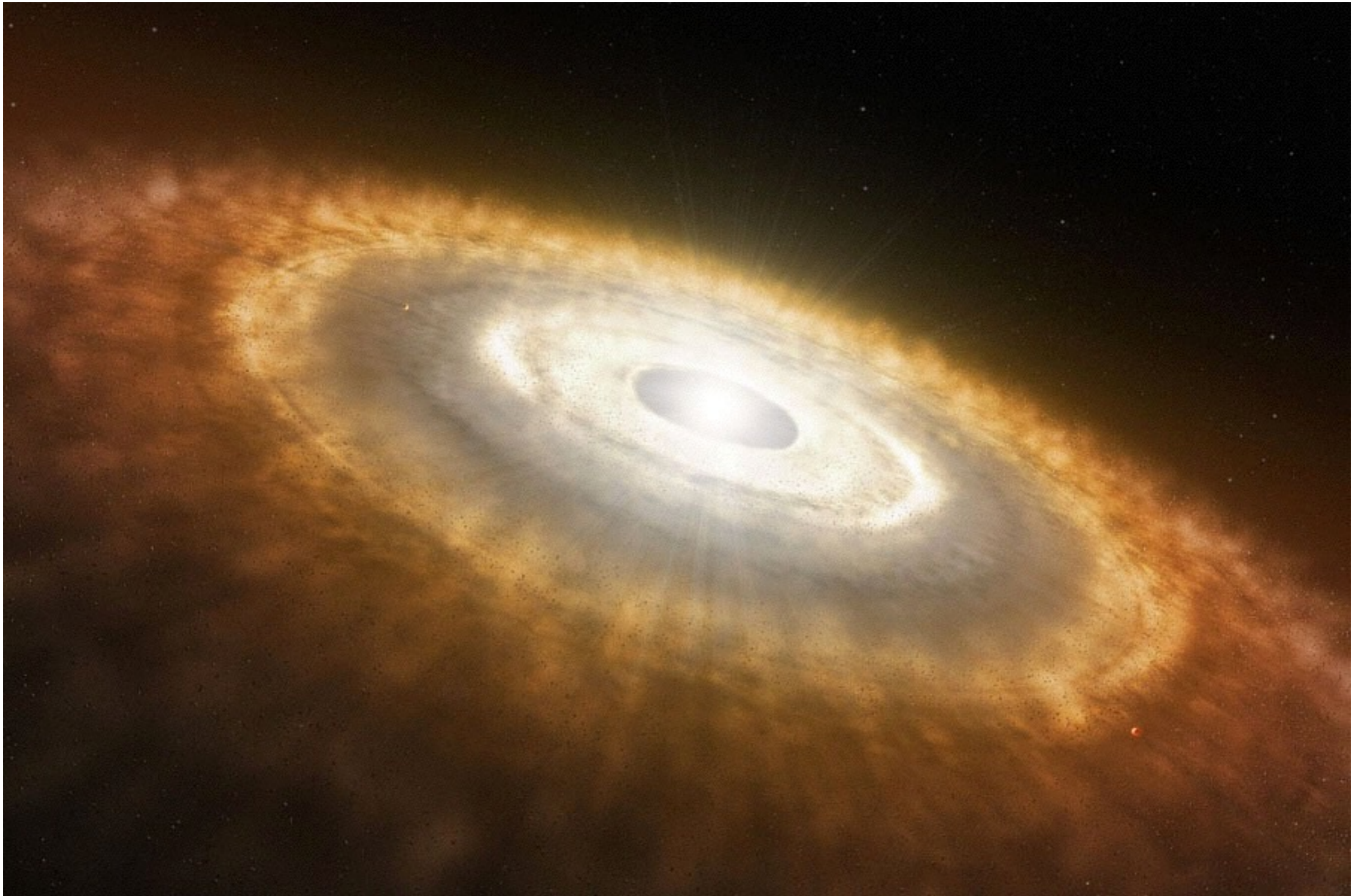
The Shockwave from a Supernova



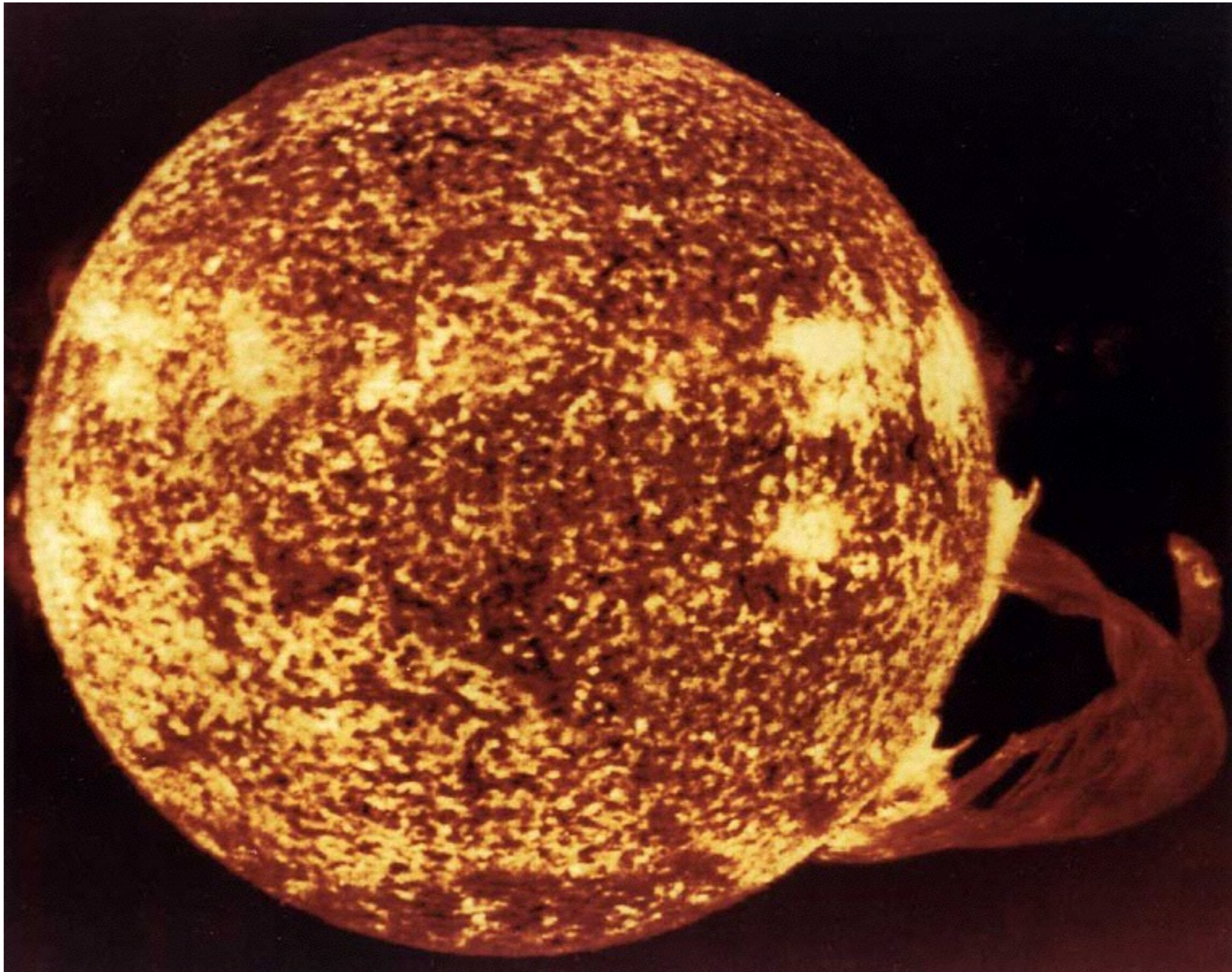
Solar Nebula Hypothesis



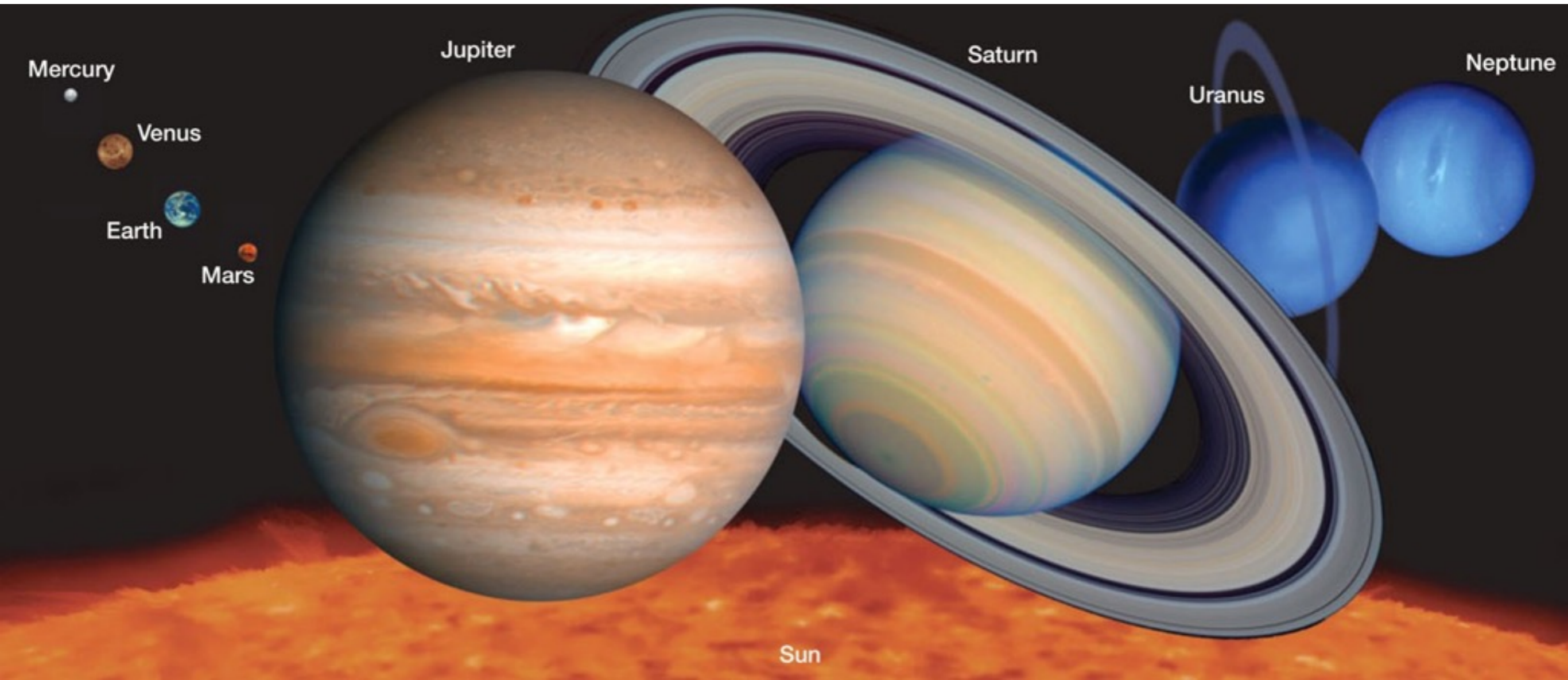
Protoplanetary Disk



'Sol' - Our Sun



The Planets (to scale)



Planetary Data

Planet	Symbol	AU*	Mean Distance from Sun		Period of Revolution
			Millions of Miles	Millions of Kilometers	
Mercury	☿	0.39	36	58	88 ^d
Venus	♀	0.72	67	108	225 ^d
Earth	♁	1.00	93	150	365.25 ^d
Mars	♂	1.52	142	228	687 ^d
Jupiter	♃	5.20	483	778	12 ^{yr}
Saturn	♄	9.54	886	1427	30 ^{yr}
Uranus	♅	19.18	1783	2870	84 ^{yr}
Neptune	♆	30.06	2794	4497	165 ^{yr}

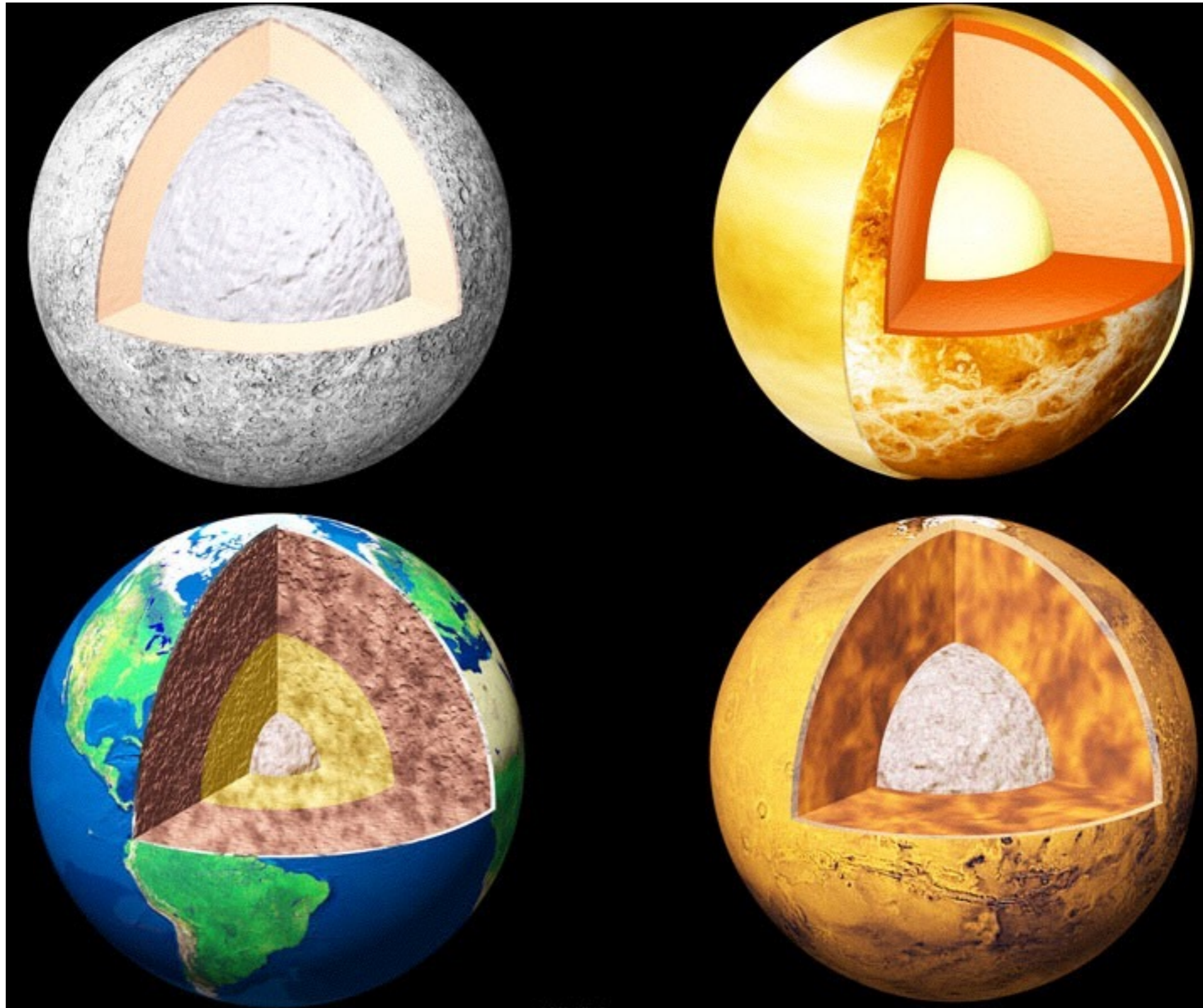
Planet	Period of Rotation	Diameter		Relative Mass (Earth = 1)	Average Density (g/cm ³)
		Miles	Kilometers		
Mercury	59 ^d	3015	4878	0.06	5.4
Venus	243 ^d	7526	12,104	0.82	5.2
Earth	23 ^h 56 ^m 04 ^s	7920	12,756	1.00	5.5
Mars	24 ^h 37 ^m 23 ^s	4216	6794	0.11	3.9
Jupiter	9 ^h 56 ^m	88,700	143,884	317.87	1.3
Saturn	10 ^h 30 ^m	75,000	120,536	95.14	0.7
Uranus	17 ^h 14 ^m	29,000	51,118	14.56	1.2
Neptune	16 ^h 07 ^m	28,900	50,530	17.21	1.7

AU = astronomical unit, Earth's mean distance from the Sun.

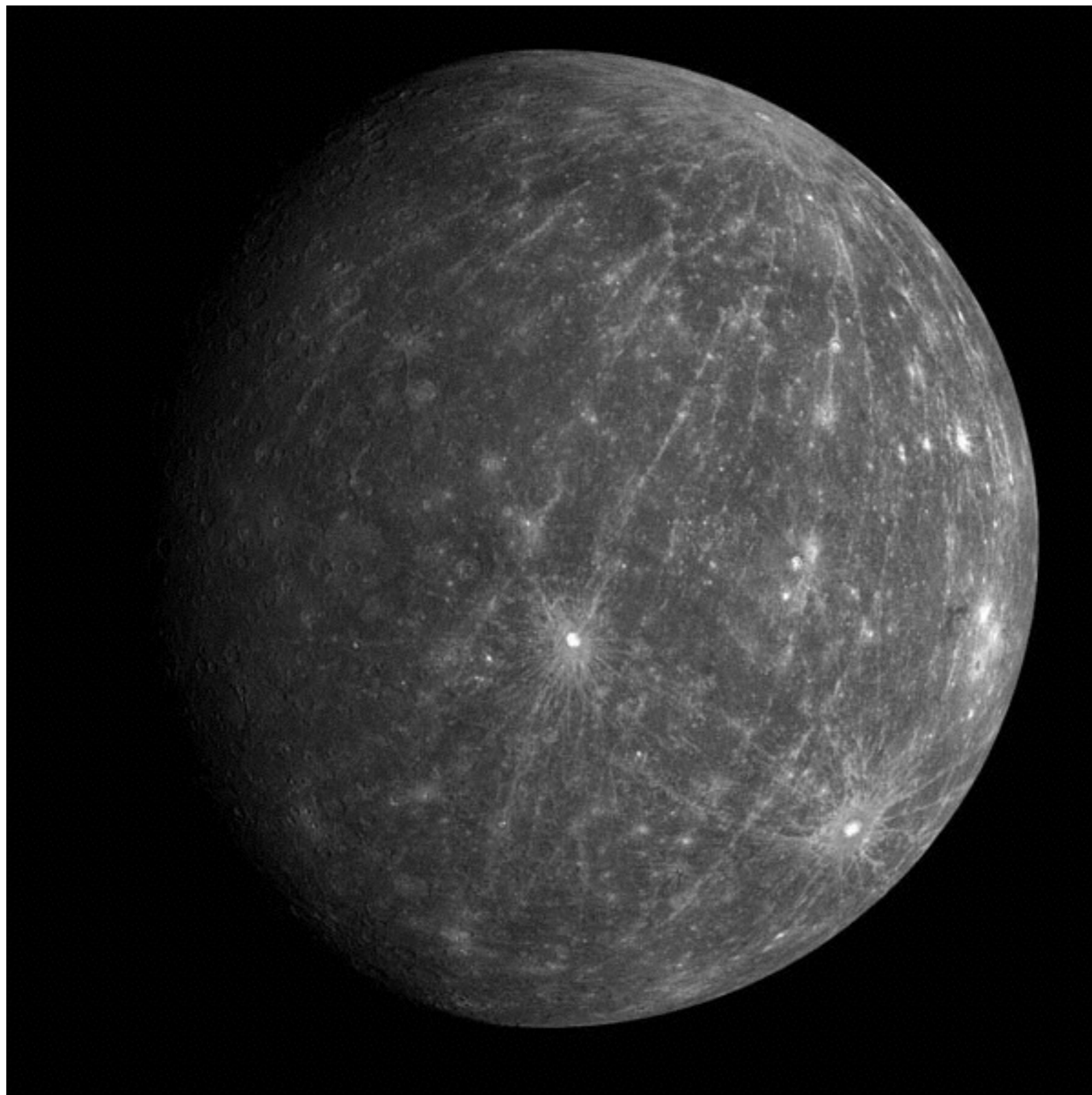
The Terrestrial Planets



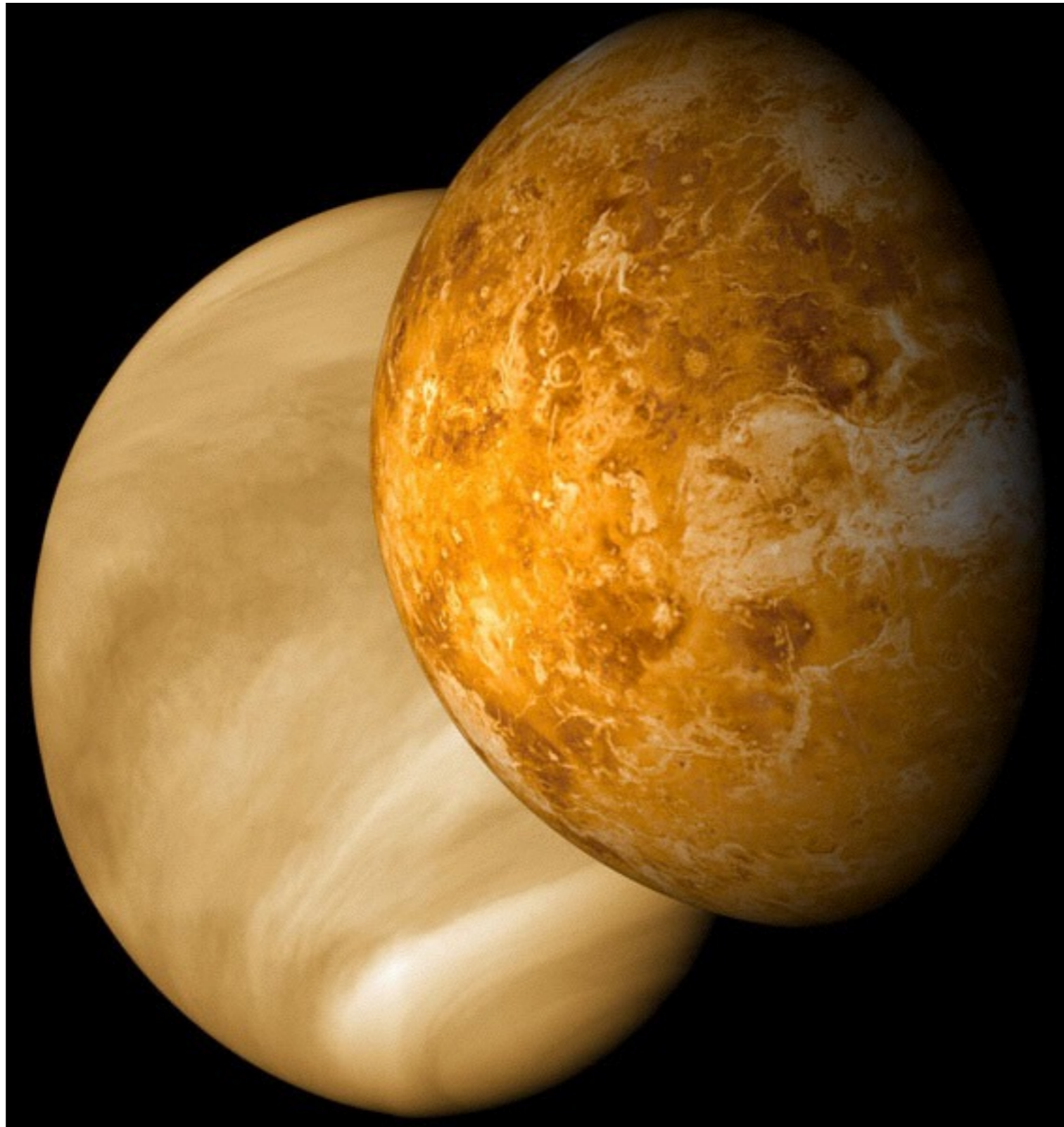
Terrestrial Planet Interiors



Mercury



Venus (visible and radar images)



Earth - The Big Blue Ball



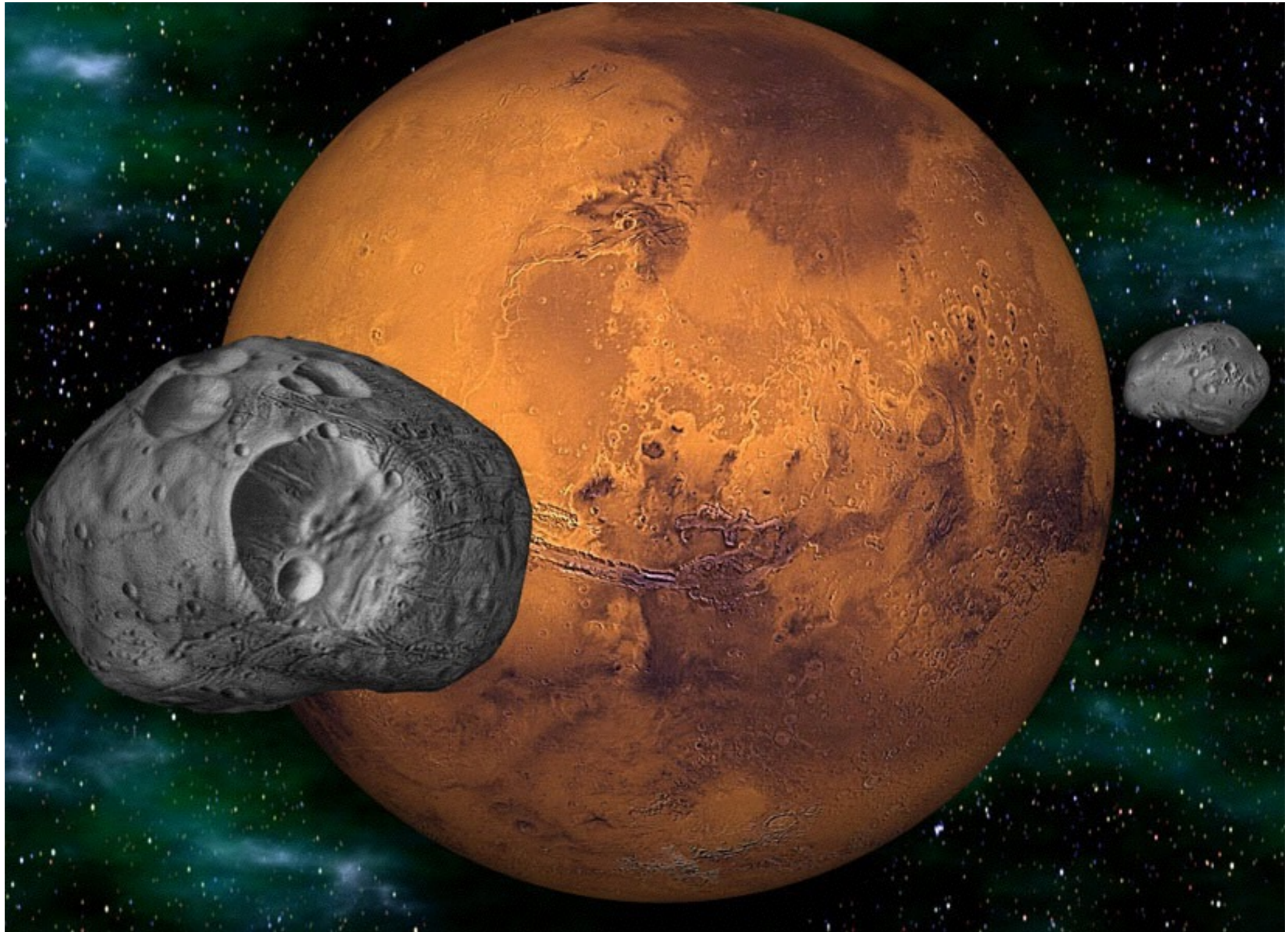
Earth - Moon System



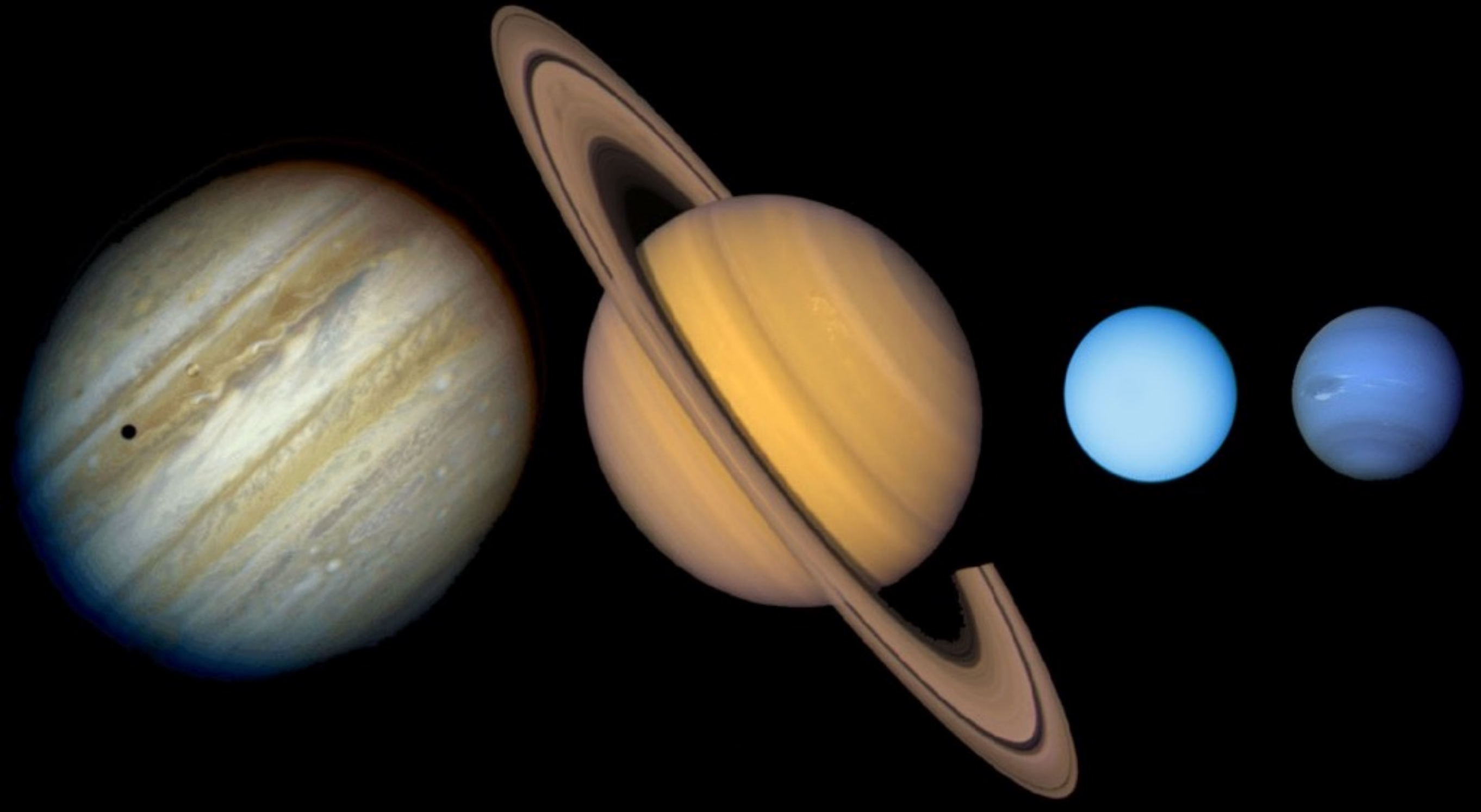
The Moon



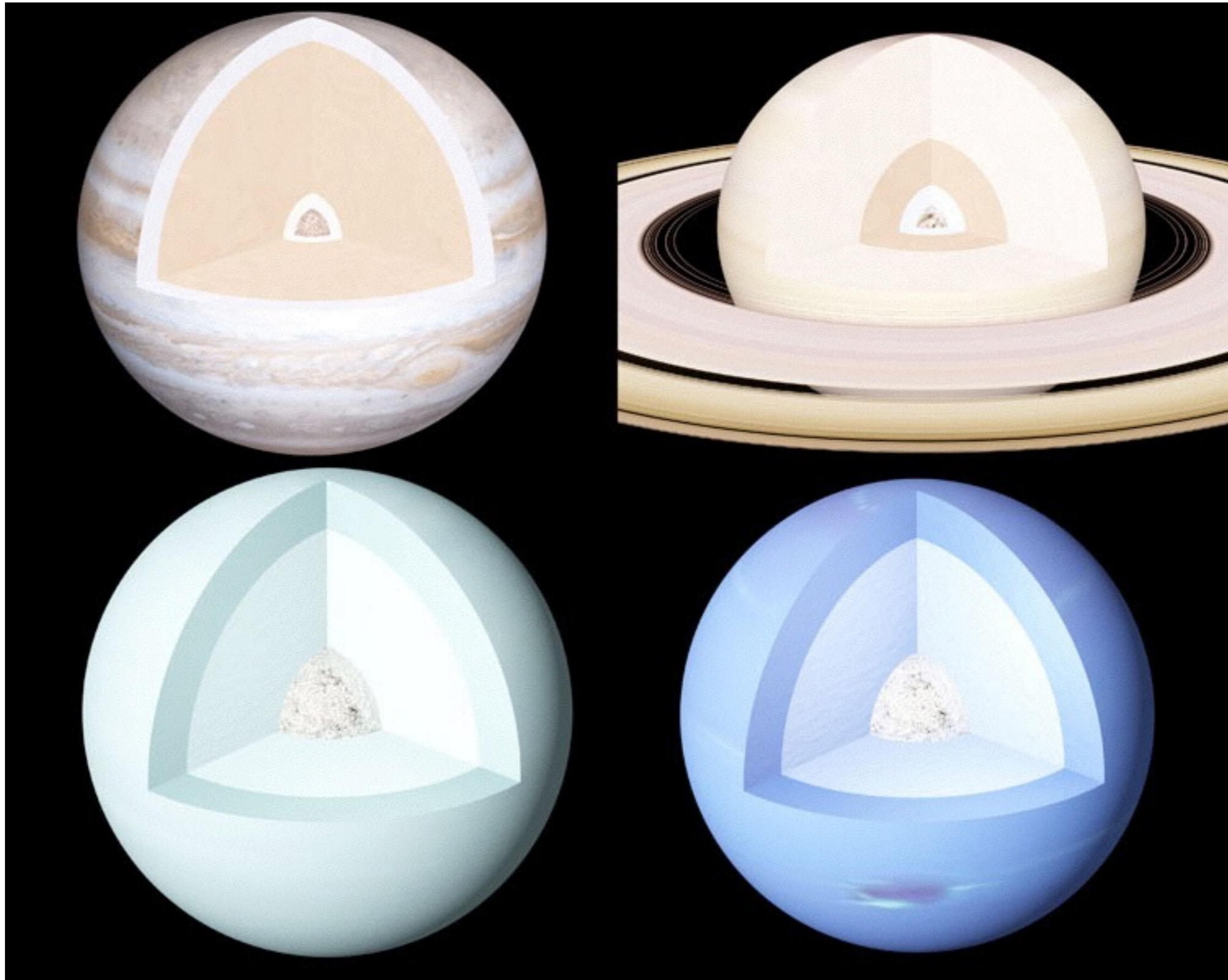
Mars with Deimos and Phobos



The Gas Giant (Jovian) Planets



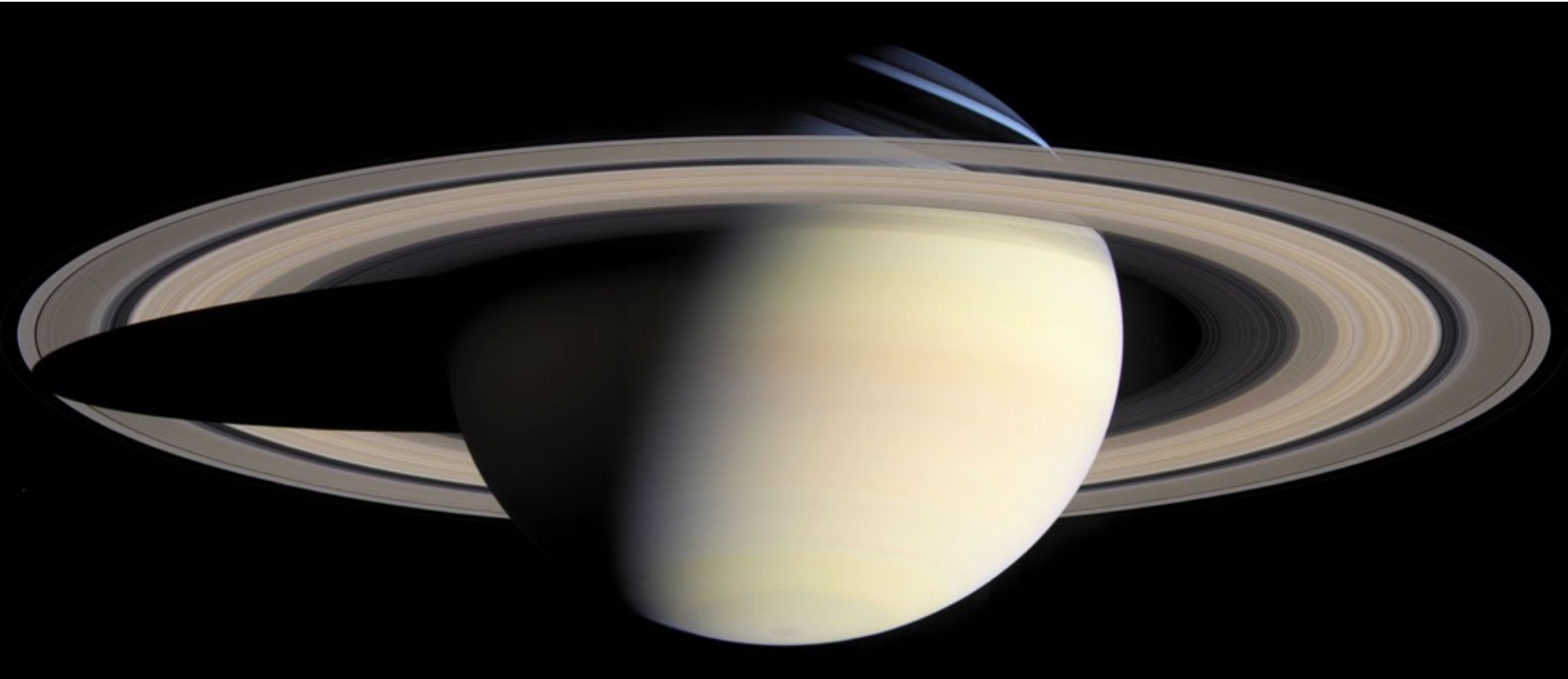
Jovian Interiors



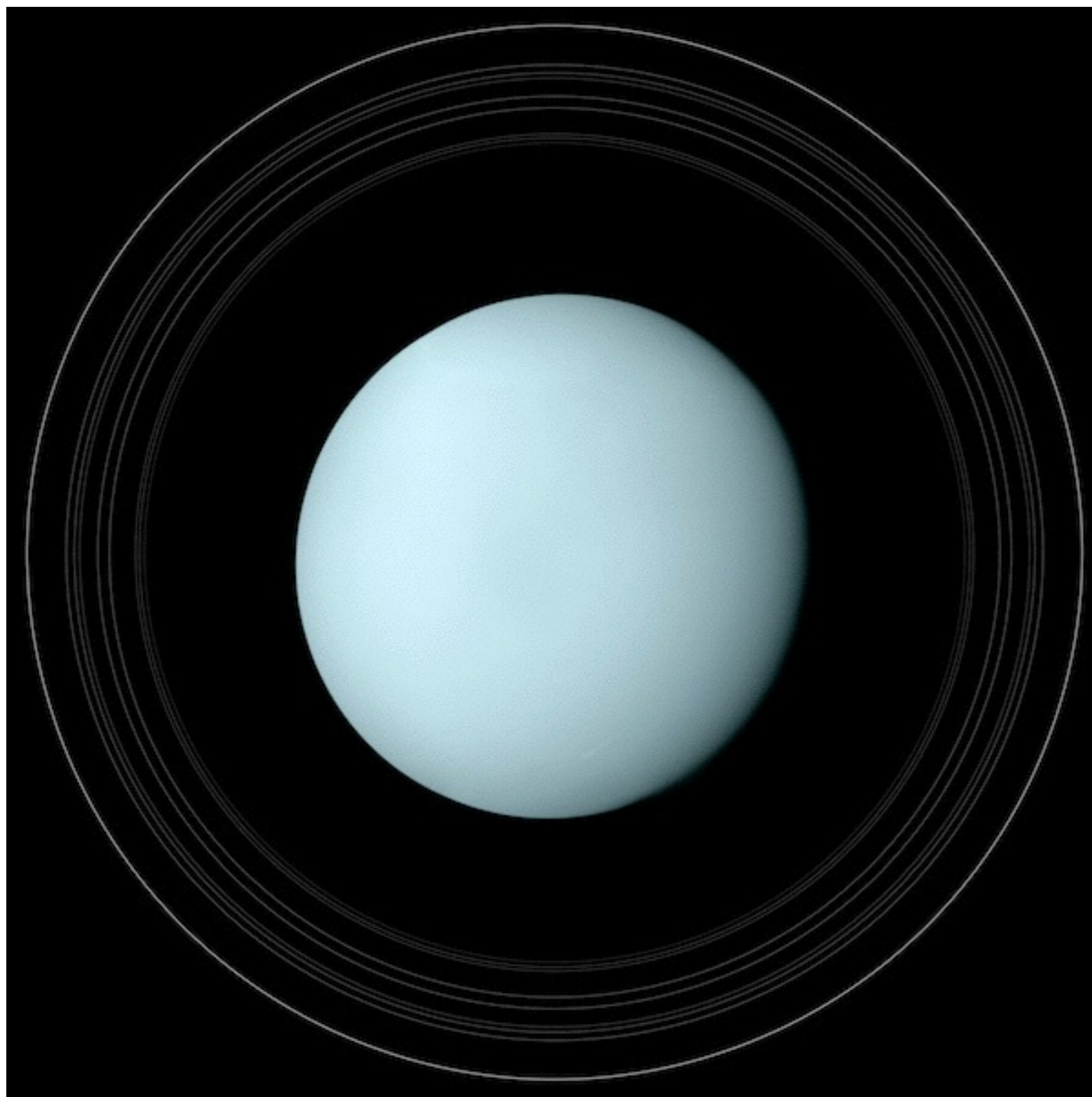
The Jupiter 'System'



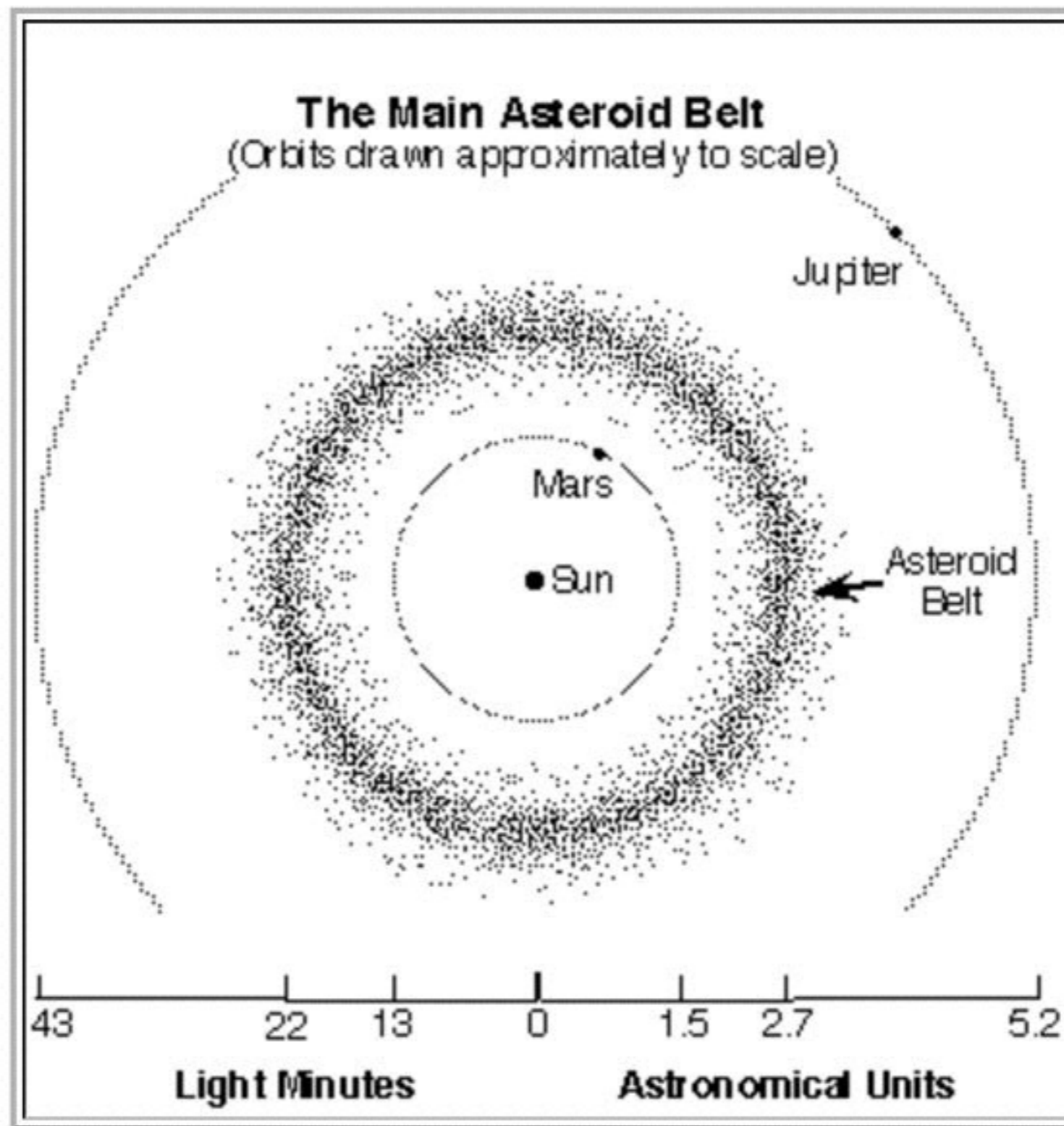
Saturn



Uranus with Rings



Small Solar System Bodies - the Asteroid Belt



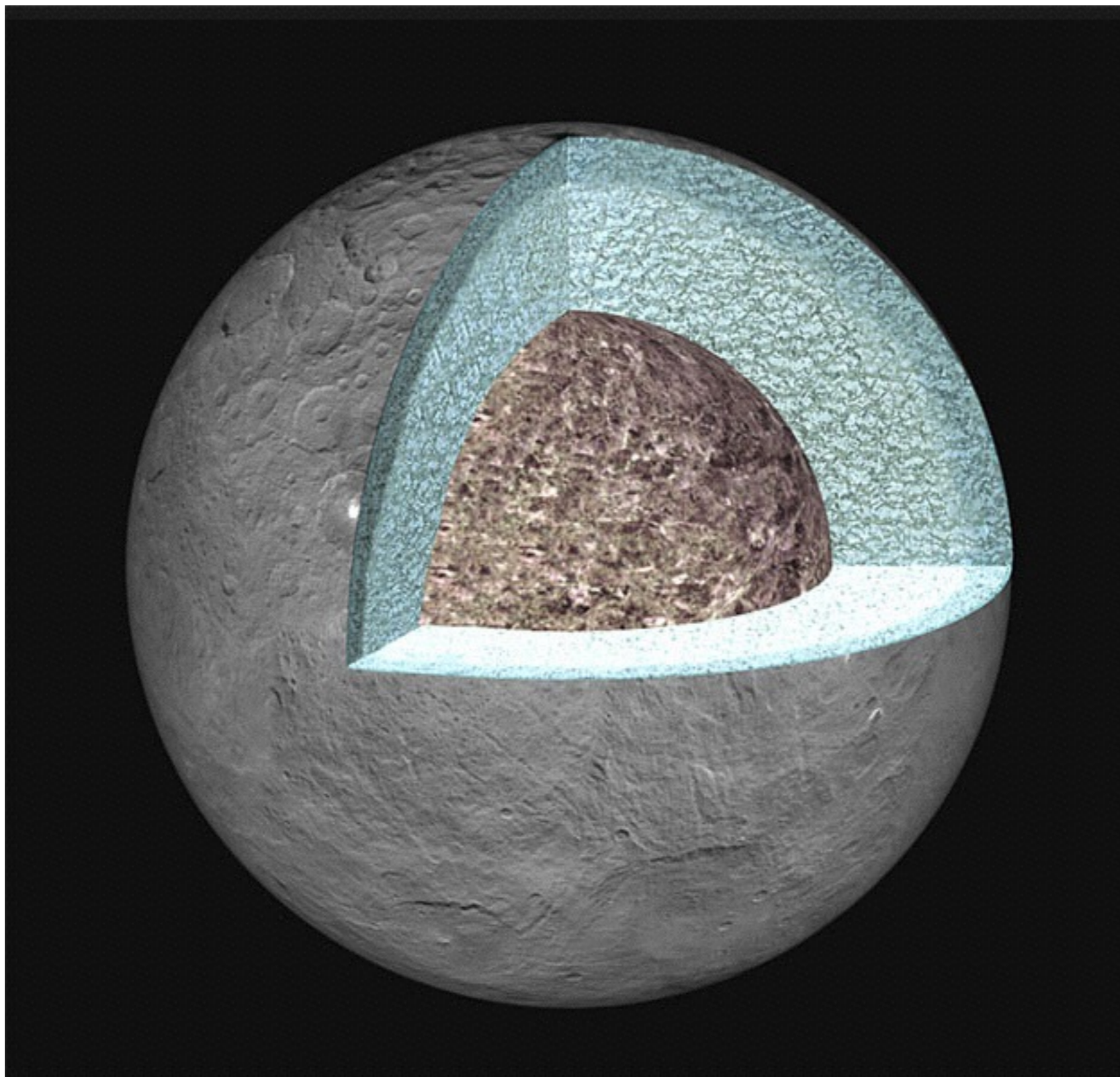
Asteroid Gaspra



Dwarf Planet Ceres



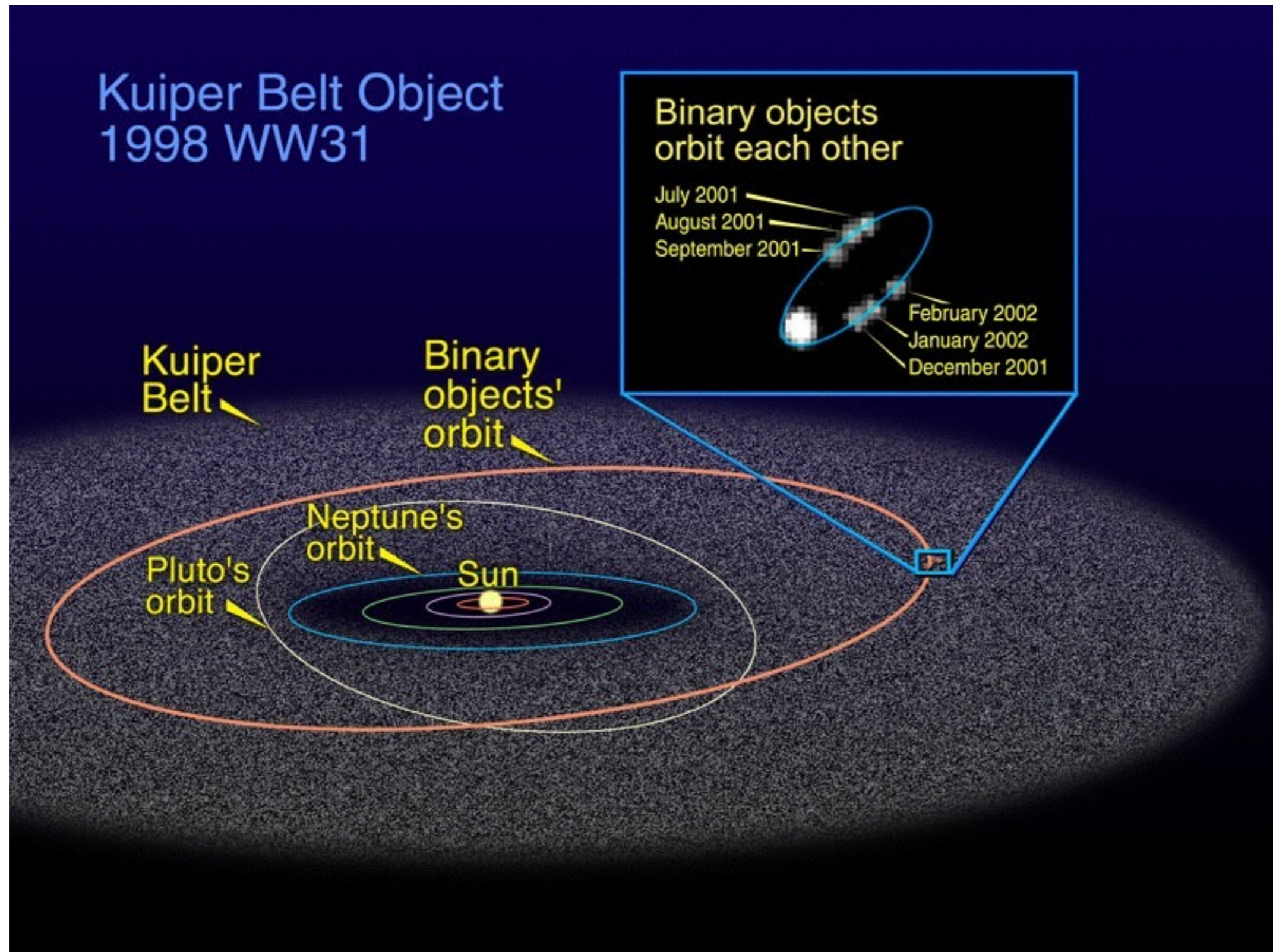
Ceres is Differentiated



Meteors vs Meteorites



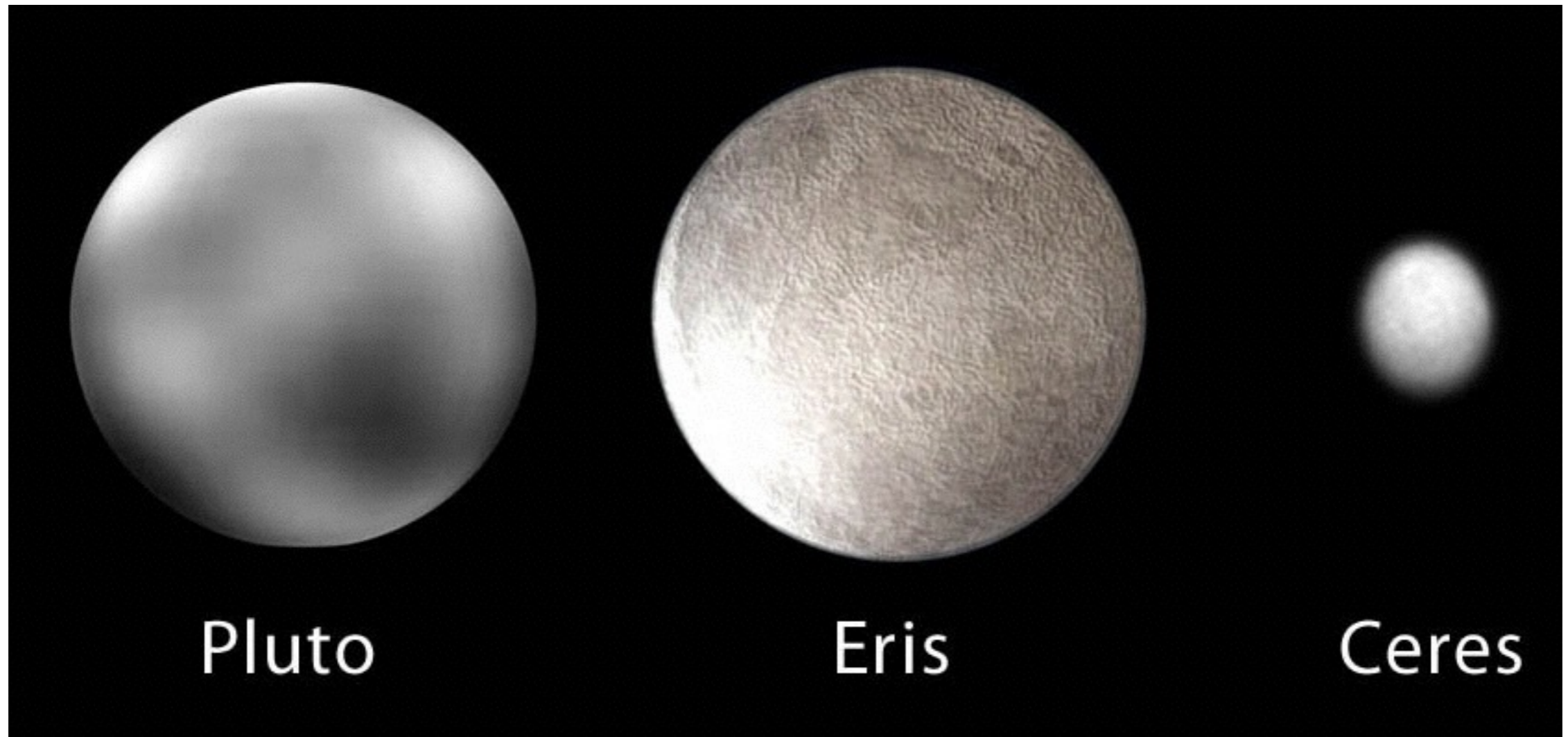
Kuiper Belt



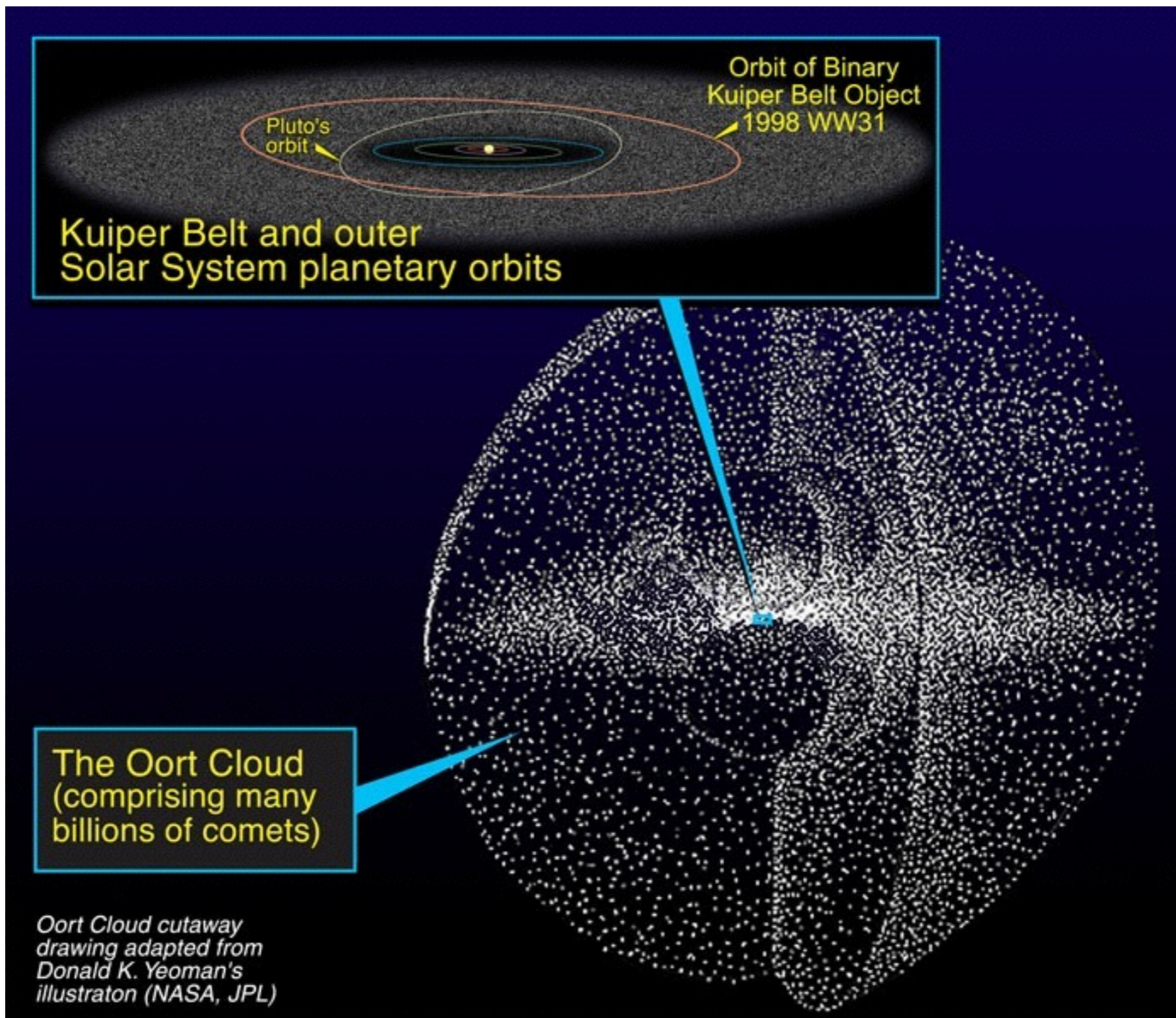
Pluto



Dwarf Planets



The Oort Cloud



Comets

