	Axial Rotaional	Mean Equatorial	Gravitational Parameter	Semi-major Axis of orbit	Orbital Period	Eccentricity of	Inclination of
	Period	Radius				Orbit	Orbit to Ecliptic
	(Rev/Day)	(km)	$\mu = Gm(km^3/sec^2)$	(km)	(sec)		(deg)
⊙ Sun	0.0394011	695990	132712440017.99	-	-	-	-
C Moon	0.0366004	1738.2	4902.8005821478	384400	2360592	0.0554	5.16
				(around Earth)	27.32 Earth Days		
C Mercury	0.0170514	2439.7	22032.080486418	57909101	7600537	0.20563661	7.00497902
					87.97 Earth Days		
Q Venus	0.0041149	6051.9	324858.59882646	108207284	19413722	0.00676399	3.39465605
	(Retrograde)				224.70 Earth Days		
⊕ Earth	1.0027378	6378.1363	398600.4415	149597898	31558205	0.01673163	0.00001531
					365.26 Earth Days		
ර Mars	0.9747000	3397	42828.314258067	227944135	59356281	0.09336511	1.84969142
					686.99 Earth Days		
¥ Jupiter	2.4181573	71492	126712767.8578	778279959	374479305	0.04853590	1.30439695
					11.87 Years		
Saturn	2.2522053	60268	37940626.061137	1427387908	930115906	0.05550825	2.48599187
					29.47 Years		
ð Uranus	1.3921114	25559	5794549.0070719	2870480873	2652503938	0.04685740	0.77263783
	(Retrograde)				84.05 Years		
Ψ Neptune	1.4897579	25269	6836534.0638793	4498337290	5203578080	0.00895439	1.77004347
					164.89 Years		
2 Pluto	-0.1565620	1162	981.600887707	5907150229	7830528509	0.24885238	17.14001206
	(Retrograde)				248.13 Years		

⁻ First three columns of the body data are consistent with GMAT 2020a default values, which are mainly from JPL's ephemerides file de405.spk

based on E.M. Standish's "Keplerian Elements for Approximate Positions of the Major Planets"

⁻ The rest of the data are from JPL website (https://ssd.jpl.nasa.gov/?planet_pos, retrieved at 09/01/2020)