Astrodynamic Constants (JGM-2)

	Canonical	English	SI (metric)
GEOCENTRIC:			
Equatorial Radius R_e	1 DU	2.09256440288713x10 ⁷ ft 3963.190156983 miles 3443.918088553 NM	6378.1363 km
Time Unit	1 TU	13.44684985511 min	806.81099130673 s
Speed Unit	1 DU/TU	25936.240649101294 ft/sec	7.905366149846 km/s
Gravitational Parameter, μ_e	1 DU ³ /TU ²	1.407644174661070960x10 ¹ 9.563x10 ⁴ mi ³ /sec ² 6.275x10 ⁴ NM ³ /sec ²	⁶ ft ³ /sec ² 3.986004415x10 ⁵ km ³ /s ²
Angular Rotation	0.0588335998	80154919rad/TU 0.25068447733746215 deg/r	7.2921158553x10 ⁻⁵ rad/s min
HELIOCENTRIC:			
Mean Distance Earth-Sun	1 AU	4.908125x10 ¹¹ ft	1.4959965x10 ⁸ km
Time Unit	1 TU _s	58.132821 days	5.0226757x10 ⁶ s
Speed Unit	1 AU/TU _s	9.7719329x10 ⁴ ft/sec	29.784852 km/s

Parameter, μ_s 1 AU³/TU_s² 4.6868016x10²¹ft³/sec² 1.3271544x1011km³/s²

Gravitational