



Earth fact Sheet

Bulk Parameters

Mass (kg)	5.9736×10^{24}
Volume (km ³)	108.321×10^{10}
Volumetric mean radius (km)	6371.0
Core radius (km)	3485
Mean density (kg/m ³)	5515
Surface gravity (m/s ²)	9.78
Escape velocity (km/s)	11.186
Visual geometric albedo	0.367
Solar irradiance (W/m ²)	1367.6
Topographic range (km)	20

Orbital Parameters

Sidereal orbit period (days)	365.256
Mean orbital velocity (km/s)	29.78
Orbit inclination (deg)	0.000
Orbit eccentricity	0.0167
Sidereal rotation period (hrs)	23.9345
Obliquity to orbit (deg)	23.45

Terrestrial Magnetosphere

Dipole Field Strength (gauss-Re ³) [Re denotes earth radii – 6378 km)	0.3076
Latitude/longitude of dipole N	78.6° N / 70.1° W



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Terrestrial Atmosphere

Surface Pressure (mbar)	1014
Surface density (kg/m ³)	1.217
Scale height (km)	8.5
Average temperature (K)	288
Diurnal temperature range (K)	283 - 293
Wind speeds (m/s)	0 - 100
Atmospheric composition by volume - major (dry air)	N ₂ – 78.084%, O ₂ – 20.946%
Atmospheric composition by volume – minor (ppm) [dry air]	Ar – 9340; CO ₂ – 350; Ne – 18.18; He – 5.24; CH ₄ – 1.7; Kr – 1.14; H ₂ – 0.55 Water is highly variable, typically ~1%