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NRLMSISE00 atmospheric density model is replaced by modified Harris-Priester model. Low precision analytical lunar ephemeris is replaced by Brown's theory (Improved Lunar Ephemeris) and JPL precise ephemeris. 1 Apr 2016: 1.1.0.0: Density_nrlmsise00.m is improved. 5 Mar 2016: 1.1.0.0: TDRSOD.m and Trj.m are changed to decrease the CPU time. 2 Mar 2016: 1.1.0.0

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Since this is a basic model for the structure of the Earth, Keplerian orbits provide a reasonable first approximation of satellite motion View Numerical Integration

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