

Interactive comment on “A plasmachemical axially symmetric self-consistent model of daytime sprite” by Andrey Evtushenko et al.

Anonymous Referee #2

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This paper is on sprite modeling in daytime conditions using a self-consistent axially symmetric plasmachemical model. The authors have first given a good background and observational evidence of nighttime sprites which high frequency of their occurrence. They have then explained the difficulty with direct observations of the daytime sprites and their less frequent occurrence because of requirement of large impulse charge moment (ICM). They have also given the references of indirect evidences of daytime sprites. The authors have done the simulation for two values of ICM of 2750 C_{km} and 3750 C_{km} with the radius discretization step of 1 km and the altitude discretization step of 1 km which is a reasonable consideration at a reduced height by 20 km as compared to nighttime sprites which I consider technically valid hence results and conclusions are sound

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Discussion paper



