

Interactive comment on “Ionospheric Plasma Density Measurements by Swarm Langmuir Probes: Limitations and possible Corrections” by Piero Diego et al.

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We compared the in situ plasma observation between CSES LAP and Swarm LP, and analyzed the possible reason why CSES LAP underestimates Ne. The following is the paper: Preliminary validation of in situ electron density measurements onboard CSES using observations from Swarm Satellites. <https://doi.org/10.1016/j.asr.2019.05.025>. We speculate that the possible reason may be the lower I_e current, as the estimation of Ne obtained by the other probe on CSES is larger than the one discussed in the paper. Therefore, we think calibration of CSES LAP data is a necessary work. Anyway, further study of the data is necessary.

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