

SESSION: SWARM, ePOP

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Comparison Between Equatorial Electron Density and GPS Signal Behavior Using Swarm Observations

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Swarm observations provide a unique opportunity to investigate the characterization of ionospheric plasma irregularities and their impact on GPS signal variations. In this study we utilize the Swarm in-situ Langmuir Probe measurements to explore the multi-day electron density behavior over the low latitude region. We also compare the electron density measurements with Swarm GPS signal variations.