Studying ionospheric plasma processes with the Swarm satellites and ground-based receivers

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The three ESA Swarm satellites have been orbit since November 2013 collecting, among other data, particularly high precision measurements of the magnetic field and observations of electron density and temperature as well as ion drift. Owing to their polar orbits high latitude processes can be studied as well as phenomena at equatorial and mid-latitudes. Studies have been particularly effective when combined with ground-based radars and receivers. I'll present an overview of what has been achieved at both high and equatorial latitudes.

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