

## Suppression of turbulent electric field in the polar cap region during high geomagnetic activity

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We report the suppression of the turbulent electric field in the polar cap during disturbed periods, identified by the very low spectral width of ionospheric echoes observed by the SuperDARN radars. The comparison with the EISCAT ESR data indicates that the regions of strong electric field suppression were collocated with the area of high electron density and low electron/ion temperature. This suggests that the high plasma density region was not created by the particle precipitation, but rather transported from somewhere else, like polar patches.