



The wave environment of plasma sheet generator regions as observed by Cluster and FAST

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Recent observations suggest that concentrated generator regions (CGR) powering the aurora exist within the plasma sheet. The importance of wave activity for the CGRs and the aurora is not yet fully analyzed. Using magnetically conjugated data from the Cluster and FAST satellites, we study the wave activity in the CGRs and investigate its relevance for processes at the auroral altitude. During our event Cluster is in the southern hemisphere close to apogee where it probes the plasma sheet and lobe at an altitude of about 18 Earth radii. FAST passes below the auroral acceleration region at an altitude of about 0.6 Earth radii.