

3D structure of the magnetic field around the earthward and tailward propagating high-pressure plasma in the plasma sheet

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This study examines three-dimensional structure of the magnetic field around the propagating high-pressure plasma associated with fast plasma flow in the plasma sheet using both observations and numerical simulations. In the data analysis part of this study, we statistically examined earthward flow events and tailward flow events observed by the Geotail satellite. In the numerical simulation part, particularly we examined the effect of the shear field component on that structure.