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Some reliable predictors of the intensity of Geomagnetic Storms

Abstract content

During the period 1996-2005 Intense, Major and Minor Geomagnetic Storms (GMSs) have been investigated. It is observed that the maximum solar wind velocity and the maximum decrease in the IMF Bz component are not the binding conditions for the intensity of the GMSs to occur. It is observed that for Intense, Major and Minor GMSs the product of solar wind velocity (V_{sw}) with Bz min (i.e. $V_{sw}.B_{zmin}$); product of linear velocity of CMEs (V_{cme}) with Bzmin (i.e. $V_{cme}.B_{zmin}$) and the product of coronal intensity with Dst (i.e. $CI.Dst$) are better predictors for the GMSs in comparison to the individual parameters.

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Summary

Reference

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