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Relationship of Coronal Mass Ejections and high speed Solar wind Streams with Geomagnetic activity

Abstract content

It is now well known that Coronal mass Ejection and high Speed solar wind stream are the most dynamical features in the interplanetary space. These two interplanetary features are known as the causes of perturbations in interplanetary magnetic field. We have identified 95 high speed solar wind streams events during the period of 1996 to 2002, using the space craft data near 1 AU. Chree analysis of super epoch method has been adopted to derive the average influence of high speed solar wind stream in association with major solar flares on geomagnetic Ap-index. From the study these high speed solar wind stream are found to be responsible in producing geomagnetic disturbances. It has been demonstrated that high speed solar wind stream in association with major solar flares and coronal mass ejections are much more effective in producing geomagnetic disturbances.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

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