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Solar and Interplanetary sources of geomagnetic storms and associated Cosmic Ray Intensity variation.

Abstract content

In the present study almost all the magnetic clouds events occurred during the prescribed events 1996 – 2005 which covers whole period of solar cycle 23 have been taken into account. The selected storm events have been compiled and their various characteristics features as well as seasonal and solar cycle dependence have been discussed. We have extended our analysis to Cosmic Rays also on the basis of the various observational results and concepts. The world wide disturbances of the earth magnetic field which are of external origin are identified as a geomagnetic storm during which a significant depression Dst index occurs which is caused by an enhancement of the ring current of the magnetosphere. In order to find out the some of the solar interplanetary caused of geomagnetic storm, a study has been performed by selecting the storm on the basis of disturbance of storm time index Dst.

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

Summary

Reference

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