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Long-term relationship between cosmic ray intensity and solar wind velocity

Abstract content

A systematic study has been performed to derive a relationship between cosmic ray intensity variation and solar wind velocity. Pressure and temperature corrected Kiel neutron Monitor data have been used to study the isotropic variation of cosmic ray intensity during the period 1986 to 2006. It has been found that cosmic ray intensity shows significant changes with various associated solar and interplanetary parameters. Correlative analysis between monthly mean values of cosmic ray intensity with solar wind velocity has clearly shown a significant relationship between them. Coronal holes and geomagnetic disturbance index Ap data have also been used to highlight the variational pattern of cosmic ray intensity on long-term basis

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

Summary

Reference

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