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CORONAL HOLE AND CME-ASSOCIATED SOLAR WIND STREAMS AND THEIR EFFECTS ON COSMIC RAY INTENSITY

Abstract content

Solar wind streams from coronal holes and those associated with coronal mass ejections (CMEs) have been identified. Using superposed epoch analysis, we analyze the cosmic ray neutron monitor data and solar wind plasma/field data with respect to two types of streams. We found a large difference in the cosmic-ray response to the streams of different origin. The observed difference in the amplitude and the time profile of cosmic ray intensity is compared to the variations in solar wind parameters, particularly plasma speed, temperature and density, field strength and its variance. We also attempt to search for the cause of this difference in response, by analyzing the plasma and field data during the passage two types of streams of different solar origin.

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

Summary

Reference

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