OSCILLATORY NATURE OF DIURNAL ANISOTROPY IN CR INTENSITY AS AN EFFECT OF SPMF INVERSION

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The Cosmic Ray intensity data recorded with Deep River neutron monitor has been investigated for a period from 1981-95 on 60 Quiet Days (QD), 120 QD, Continuous QD and All Days in a year. The Phase of the diurnal anisotropy has been found to remain in corotational direction during the period 1985-91. Afterwards, a shift towards earlier hours continuously till 1995 has been observed in the phase of diurnal anisotropy on QDs. Further, the diurnal anisotropy vectors on QDs have been observed to have shifted to earlier hours for the positive polarity (1992-95) of Solar Poloidal Magnetic Field (SPMF) in Northern Hemisphere (NH) whereas, it remains in later hours for the negative polarity (1981-90) of SPMF in NH.