

COMPARATIVE STUDY OF SEMI-DIURNAL ANISOTROPY ON DAYS HAVING DIFFERENT SELECTION CRITERION

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Variation of semi-diurnal anisotropy of cosmic ray intensity has been studied using Deep River neutron monitor data for the period 1985-95, on four different groups of days selected using different selection criterion. These are 60 quietest days (60QD), selected by taking 5 quietest days from each month, 120 quiet days (120QD) selected by taking 10 quietest days from each month, Continuous quiet days (CQD) are groups of days having Ap values less than the mean Ap value for all days for 3 continuous days, and lastly all days (excluding days having diurnal anisotropy > 1.2) . The distributions of semi-diurnal anisotropy values within each group of days have also been considered. The annual average values of semi-diurnal phase and amplitude are observed to show quite similar variations-within the statistical errors. The statistical errors are although higher in case of 60 QD. The distributions of values are observed to be more regular in case of CQD & 60QD.