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Solar-diurnal anisotropy of cosmic rays for 71 years of observations

Daily vectors of solar-diurnal anisotropy of cosmic rays (CRs) are obtained based on the Climax neutron monitor (NM) data for 1953-2006. These results are compared with similar anisotropy vectors obtained with the Moscow NM data for 1966-2006 and by the global survey method for 1957-2006. During quiet periods, there is a good agreement between the results obtained with different datasets and by different methods. A homogeneous reliable series of annual average vectors of solar-diurnal anisotropy for CRs with a rigidity of 10 GV at quiet periods is formed.

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