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Long-term measurements of cosmic ray fluxes in the atmosphere

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The experimental data on galactic cosmic ray fluxes in the atmosphere are presented for 5 eleven year solar cycles from the 19-th solar cycle till the 24-th one. The cosmic ray data were obtained in the northern and southern polar atmospheres and in the northern atmosphere of the middle latitude. The analysis of monthly averages is made, namely: the relationship cosmic ray fluxes with solar activity (sunspot number and sunspot group number, strength of interplanetary magnetic field at 1 a.u.); changes of cosmic ray fluxes during the periods of inversions of solar polar magnetic field (hysteresis effect). It is shown also that the relationship between cosmic ray fluxes and global temperature in the boundary layer of the Earth's surface is absent.

Collaboration

– not specified –

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