

North-South asymmetry of selected solar wind parameters in the near Earth space

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North-South asymmetry in the cosmic ray fluxes as resulted from the long-term balloon measurements in the northern and southern polar stratosphere does not agree with that found from the neutron monitor data. In order to reveal possible sources of the observed asymmetry, selected interplanetary parameters were examined. North-South asymmetry relative to the heliospheric neutral sheet was considered for solar wind velocity, modulus of interplanetary magnetic field strength, its B_z component, plasma density and temperature. It is shown that North-South asymmetry of some parameters (e.g., solar wind velocity) depends on the Earth's heliolatitude and a phase of the 11-year solar activity cycle.