

Cosmic ray measurements in the Earth's polar regions: tasks and problems

N.S. Svirzhevsky, Yu.I. Stozhkov, G.A. Bazilevskaya, M.B. Krainev, A.K. Svirzhevskaya
Lebedev Physical Institute, 119991, Moscow, Leninsky pr., 53

E.V. Vashenyuk

Polar Geophysical Institute, Kola Scientific Center, Apatity, Murmansk region

The brief description of the cosmic ray measurements in the Earth's atmosphere which are carried on at the northern and southern polar regions during more than 40 years is presented. Some problems on solar-terrestrial relations, cosmic ray modulation in the heliosphere, space weather and atmospheric electricity are discussed on the base of long-term cosmic ray observations in the upper and lower atmosphere.