

Cosmic Rays and Solar-Terrestrial Relations

Getselev I.V., Krasotkin S.A., Chuchkov E.A., Okhlopkov V.P., Podzolko M.V.

Skobeltsyn Institute of Nuclear Physics, Moscow State University, 119899,
Moscow, Russia

High-energy charged particles invading the near-terrestrial space are of a great importance for the problem of solar-terrestrial relations. The size of these particles determine their influence on the objects of vital activity.

In this paper it is suggested to use the flux of solar and galactic cosmic rays protons of energy higher 30 MeV as the parameter of the above mentioned influence.

The time dependence of this parameter in different solar activity cycles is discussed. The statistical analysis of its annual values and the correlation with Wolf numbers is presented.

The possibility to predict this parameter is discussed.