## The Global Current Circuit variations influence on atmospheric transparency

I.V. Artamonova, M.I. Pudovkin Institute of Physics, St.Petersburg State University, St.Petersburg, Russia.

Events of geomagnetic disturbances (1972, 1973,1976-78 rr) not assosiated with Solar Proton Events and Forbush decreases in Galactic Cosmic Rays were considered. It was shown that such geomagnetic disturbances cause atmospheric transparency decreases by approximately 8% and 11% in comparison with undisturbed level at high ( $\varphi \approx 60^{\circ}$ ) and low ( $\varphi \approx 43^{\circ}$ ) latitudies correspondly. At middle latitudies ( $\varphi \approx 55^{\circ}$ ) this effect is almost unobservable, about 3%. Atmospheric transparency recovery after geomagnetic disturbance occurs at high latitudies much faster then at low latitudies.