

Ring current in various models of a magnetic field

A.A. Ostapenko, V.V. Pchelkin, Y.P. Maltsev

Through the last years in literature the effects which are responsible for the asymmetry of the ring current are actively discussed. An excess of the nightside ring current over the dayside one is closed to the region 2 field-aligned currents. We have investigated the ring current calculated from various magnetic field models for different MLT and Dst. It is revealed that not all magnetic field models yield the adequate ring current.