

On the dependence of semi-diurnal variation of auroral absorption on a geomagnetic disturbance

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From data of riometer observations from 1986 to 1993 at the stations of Kotelny Island, Tixie Bay and Zhigansk the semi-diurnal variations of appearance frequency of auroral absorption and their dependences on geomagnetic activity have been determined. It has been found that the phase of semi-diurnal variation maximum is systematically shifted to earlier hours with the rise of geomagnetic disturbance. The reason of this experimental fact is discussed.