

Some differences in the dayside magnetic pulsations of 0.1-5 Hz as inferred from BAB-LOZ-NUR magnetic array measurements

V. Safargaleev (1), A. Vasil'ev (1), J. Kangas (2), and A. Kozlovsky (3)

(1) Polar Geophysical Institute, 184200, Apatity, Russia,

(2) Sodankyla Geophysical Observatory, FIN-99600, Finland

safar@pgi.kolasc.net.ru

We present the first results of investigation of the dayside Pc1 geomagnetic pulsations at Barentsburg-Lovozero-Nurmijarvi magnetic array. We concentrate on the pulsations which are excited by sudden changes in the solar wind dynamic pressure. It is found that the rate of frequency increasing at high latitude BAB station is more than at auroral zone stations LOZ and NUR. Some other differences both in the intensity and form of signal have been also pointed out and discussed in the light of the modern theories.