**GICs during substorms caused by solar wind dynamic pressure pulses on 3-4 November 2021**

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We studied the occurrence of GIСs during sharp and large-amplitude changes in the dynamic pressure of the solar wind on November 3-4, 2021. Three pulses of dynamic pressure of large amplitude (~ 20 nPa) were recorded during the period of strong southward IMF Bz from 20 to 22 UT on November 3 and a very strong pulse of the dynamic pressure (~29 nPa) at ~ 09 UT on November 4, 2021. According to IMAGE and SuperMAG magnetometers data, we detected three consecutive substorms on November 3 and one supersubstorm on November 4 associated with these pressure pulses. The evening substorms on November 3 followed one another with a short interval, and each subsequent substorm began to develop at the stage of incomplete recovery of the previous one, which led to a complex pattern of ionospheric current development. Differences in the dynamics of these three substorms and supersubstorms were reflected in the appearance and development of intense GICs at substations in the north-west of Russia and the south of Finland (substations Vykhodnoy, Kondopoga, Matsala).​