SATellite monitoring of Nighttime cloud cover at the locations of the Yakutsk EAS array and the TAIGA observatory

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Abstract. We are considering the problem of cloud cover monitoring during nighttime at the locations of the Yakutsk EAS array and the TAIGA observatory for the annual October – April period of observations at these facilities. It is shown that the use of data from Terra, Aqua, Suomi-NPP and JPSS-1 satellites, as received by the ground stations of Altai State University and processed to level 2 (retrieval of geophysical parameters of the atmosphere), gives the possibility of monitoring observations of the structure and characteristics of the cloud cover at night with a high spatial resolution and a frequency sufficient for cloud correction of the detector readings.