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Forbush effect of magnetic storm 10-12 May 2025

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The Forbush effect is a sharp decrease in the intensity of cosmic rays caused by the deflection of charged particles by inhomogeneities in the interplanetary magnetic field. The study analyzes the Forbush effect during the geomagnetic storm of May 10-12, 2024. This storm attracted much attention from the scientific community due to its magnitude exceeding the -500 nT Sym-H index. The Sym-H exceeding the -500 nT mark also makes it the largest storm in the last three decades and the second largest in the history of the space age (after the storm of March 13, 1989).
The research was carried out within the framework of the state assignment of IPE RAS and within the framework of the state assignment of IDG RAS No. 125012700798-8 “Transformation of geophysical fields as the main factor of intergeospheric interactions”.

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