

Interactive comment on “Possible effect of extreme solar energetic particle events of September–October 1989 on polar stratospheric aerosols: a case study” by I. A. Mironova and I. G. Usoskin

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Paper looks interesting. Authors using SAGE-II data for the end of September 1989 found visible response in aerosol to GLEs over Southern polar region between 10-20 km. It should be mentioned that this region is usually under "ozone hole" conditions caused by low temperature and PSCs existance. So that, may be authors found a way to the connections between ionization by GCRs and PSCs. This direction looks fruitful, but needs involving aerosol physics in future. This comments may be included in discussion or conclusions.

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