

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 existence. 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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