

Interactive comment on “Ionospheric and thermospheric response to the 27–28 February 2014 geomagnetic storm” by Khalifa Malki et al.

Anonymous Referee #1

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Dear Editor, Overall this is a very good article describes observations by a suite of the instruments during 27-28 February 2014 geomagnetic storm. It is also the first paper using such observations in Africa. I have only minor comments about the article.

L19 “The day-night difference in solar heating and upward propagating atmospheric tides control the thermospheric wind circulation during quiet time conditions. “ Solar heating in the thermosphere is the main cause for the diurnal variation of the thermospheric winds. Tides can modulate the thermospheric wind (e.g. nonmigrating tides). But they are not the major source for wind circulation in the thermosphere. The sentence places the solar heating and tide in equal weight is not accurate.

L24 ‘Mendillo (2006); ?; Emmert et al. (2004)).’ revise.

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There should be some mention of the weather condition for the FPI observation.
Hope in the future, there will be some model comparisons.

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2018-24>, 2018.

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