

## ***Interactive comment on “Decrease of total electron content during the 9 March 2016 total solar eclipse observed at low latitude stations, Indonesia” by Wahyu Srigutomo et al.***

**Anonymous Referee #3**

Received and published: 23 February 2019

The work reports the decrease in VTEC over the Indonesian sector during the total solar eclipse on 09 March, 2016 based on data from 40 GPS stations distributed throughout the archipelago. The authors note that the time required of the VTEC archived maximum reduction since the initial contact is faster than the recovery phase during the eclipse period. and the possible contribution of plasma fountain process during the eclipse period, its role is not critically evaluated in the reduction of VTEC.

A few specific comments are as follows. 1. Considering the occurrence of moderate storm on 06 March 2016, The author describes the geomagnetic storm effect only on 7 March 2016 and therefore the authors take the VTEC data on 8 March 2016 to be the

[Printer-friendly version](#)

[Discussion paper](#)



reference to compare the eclipse effect. The storm initial phase occurs at 1700 UT on 6 March 2016 and reach the minimum at 2200 UT on 6 March 2016. However, the local time is later 7 to 11 hours for the UT time and the Dst index reaches the minimum value at daytime on 7 March 2016. Therefore, how do the authors rule out the contribution of negative ionospheric storm on 8 March 2016 and the data could be as the reference for comparison? 2. The same work described in the Muslims et al. (2016) work and the authors should describe what the different between two papers.

I am afraid that I am not able to accept this manuscript for publication in *Annales Geophysicae*.

---

Interactive comment on *Ann. Geophys. Discuss.*, <https://doi.org/10.5194/angeo-2019-11>, 2019.

[Printer-friendly version](#)

[Discussion paper](#)

