

Interactive comment on “Diurnal, seasonal and solar cycle variation of total electron content and comparison with the IRI-2016 model at Birnin Kebbi” by Aghogho Ogwala et al.

Aghogho Ogwala et al.

ogwala02@gmail.com

Received and published: 26 February 2019

Please see the list of corrections as below. The new manuscript with the effected corrections is as attached.

List of corrections.

1. The presentation of data analyses have been improved. See line 174 – 179. 2. Line 15: Magnetic dip of Birnin-Kebbi have been included. 3. Lines 52 – 55: The authors have included some references discussing the ionosphere during quiet and disturbed conditions. 4. Lines 102 – 113 shows more references have been sited. 5. In line

C1

152, a reference have been cited for equation 4 6. Line 175: We specified that we are using hourly OBS-TEC and hourly IRI-2016 model. 7. Line 189: The whole paragraph have been rephrased, the line talking about day-to-day variation with error bar (line: 193) have also been written clearly. 8. In Lines 198 – 204, the definition of all time and values have been written in a clearer manner. Also, in line 200: The time of occurrence of maximum TEC have been corrected. 9. The daily profile of IRI-2016 in Figures 1 – 4 obtained from IRI website (URSI option) is correct. It is not shifted in time. 10. In line 322 – 329, the paragraph have been written clearly. The time difference for post-midnight and pre-midnight hours have been clearly stated. 11. Also the following paragraph in Line 330 – 334 have been written clearly with Table III to summarize. 12. Figure 10 have been potted on a single frame. 13. Line 340 – 342: Explains the direct impact of solar phenomena in the ionosphere with reference. 14. The whole paragraph in line 338 – 349 have been corrected. 15. Also, in the following paragraph in line 360 – 368 explains the impact and damage that could be caused by solar phenomena. References are cited. 16. The conclusion now captures our corrected results.

Please also note the supplement to this comment:

<https://www.ann-geophys-discuss.net/angeo-2018-134/angeo-2018-134-AC2-supplement.pdf>

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2018-134>, 2019.

C2