

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.

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Dear Referee, In response to your latest comments (RC5), we have looked through the manuscript and effected the required corrections in the main manuscript. The point-by-point correction is as below for your kind perusal. GENERAL CORRECTIONS: 1. Line 117 – 118 in the introduction shows our result is similar to result of authors in line 113 – 114. This is further discussed in the result and discussion section (line 280 – 285). 2. Lines 193 – 194: It is clarified that error bar represents the standard deviation of OBS-TEC from mean values. 3. Lines 234 – 235 have stated that maximum OBS-TEC of most of the months shifted to slightly post-noon. In addition, the sentence

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regarding peak shifting in Polar Regions is now referenced. 4. Lines 245 – 255: The time of suitable IRI predictions have been corrected appropriately. When the IRI curve fit within the error bar of OBS-TEC, the model is said to be suitable. 5. Figures 5 – 8 have included horizontal line. 6. Line 251 defines pre-midnight hour. TECHNICAL CORRECTIONS 7. Line 148: shows “and” have been inserted between satellite bias and receiver interchange bias. 8. Line 176: duplicate word “using” have been deleted. 9. Line 209: Rayleigh-Taylor Instability replaces wrong spelling. 10. Misplaced Y label in Figure 2b have been deleted. 11. Line 300 have been changed to “minimum and maximum seasonal VTEC values during June solstice and December solstice respectively”

Please also note the supplement to this comment:

<https://www.ann-geophys-discuss.net/angeo-2018-134/angeo-2018-134-AC3-supplement.pdf>

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