

## ***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

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1. Line 126 – 128 now reflects the aim of the study. 2. In methodology: Lines 171 – 176: The text have been revised. 3. Lines 198 now show the maximum OBS-TEC time as 12:00 – 14:00 LT. Also, the sentence explaining error bar have been deleted. 4. The Caption in Figures 2 – 4 have been adjusted in line with reviewer’s comment. 5. Lines 231 – 236: The delay time is stated. 6. Line 333: We corrected the statement to “1 TECU variation to represent an error of 0.16m in position” 7. Line 324 - 332: Shows additional scientific contribution to our work. 8. The paragraph in Lines 337 – 342 have been corrected accordingly, other irrelevant text mentioned have been deleted. 9. The

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plot in Figure 10 now data points connected with lines. 10. In conclusion: Lines 388 – 391; 365 – 367: our result reflects comparison with other work. More comparison can also be found in the discussion section. 11. In the cause of corrections suggested by the reviewer, some references were deleted while some were included and cited.

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C2