

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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LIST OF CORRECTIONS: REVIEWER 1 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 cited. 5. In line 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

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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.

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