

Interactive comment on “Atmospheric drag effects on modelled LEO satellites during the July 2000 Bastille Day event in contrast to an interval of geomagnetically quiet conditions” by Victor U. J. Nwankwo et al.

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Thank you for the insightful comments/suggestions that are helping to improve the quality of this manuscript/work. We agree with the suggested content-wise inclusion, to better guide readers and clearly justify the objectives of the paper. Therefore, a better worded version of the suggested inclusion (that perfectly fits into the framework of the paper) will be added in the introduction (before the ‘data and methodology’ section) in the revised manuscript, Unless the editor suggest/advise otherwise. We also feel that some readers may misunderstand the phrase ‘...none of these findings were

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particularly surprising or profound.’ (as you noted). To avoid misinterpretation the sentence will be reworded (or removed and/or replaced) accordingly as suggested, to better convey the accomplishment of the work in the abstract.

Our analysis contrasted not only between the solar active and the quiescent regimes but also between the active regime and the Bastille day event, as well as between the quiescent regime and the Bastille day event. This kind of analysis enabled the definition of new indices presented in Table 3 and 4, from which h variations and ODRs were calculated/estimated for the model satellites. Because these calculations are based on model (which compared well with decay profile of some real satellites, as we reported in previous article e.g., Nwankwo et al. 2015) the next stage will be to obtain actual ephemeris data from satellite operators, for estimate model testing and comparison. Therefore, we shall report how we intend to progress from this point (as already explained) in the concluding part of this work. This way, we hope that we would have been able to justify the statement you noted within the current paper, and by extension further reflect the strength of this paper.

Thank you very much

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