

Ann. Geophys. Discuss., community comment CC1  
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## Comment on angeo-2021-38

Joseph Olwendo

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Community comment on "Influence of the semidiurnal lunar tide in the equatorial plasma bubble zonal drifts over Brazil" by Igo Paulino et al., Ann. Geophys. Discuss.,  
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### Summary:

The paper remain significant in understanding the drivers and structuring Of ionospheric irregularities once initiated.

The paper can be accepted for publications but only after a minor revision to the current state. The minor revision is categorized into major corrections and minor corrections.

### Major corrections

- How significant is the 5% value of contribution of M2to the zonal drift velocity? why is the non-negligible. this aspects should be highlighted in the revised manuscript.
- what is the scientific explanantion regarding the solar activity and seasonal variations of M2. For example can you expalin why M2 is sttronger during solar max and vice versa.
- apart from M2 which plays only 5% of the driving forces in the zonal drift, which are the other drivers accounting for 95% in the zonal drift.
- Last but not least, the authors should run the revised manuscript in spelling and grammar check before resubmiiting.

### Minor corrections:

#### Abstract

lines 2-3: "strong day to day .....near the equator" rewrite the sentence to improve clarity

#### introduction

lines 13-14: "they consist.....ionosphere. the sentence lacks clarity and must be rewritten.

lines 14-15: Changes in lines 13-14 must be matched by a revision in lines 14-15 too for clarity.

lines 20-21: PRE in wrongly defined in this section and must be revised.

lines 34: the sentence is hanging and is not well connected to the rest. revise this part.

The authors should scrutinize the rest of the articles by rrunning the revised version on speclling and grammar check. the above are just afew glaring cases.