

## Review egosphere-2024-1087

The authors have addressed all of the reviewer's comments in a satisfactory manner in the author response. The authors have incorporated all of the requested changes into the revised manuscript and elaborated sufficiently on all unclear parts of the text. In the reviewer's opinion, this has helped to make the presentation of a very important study more clear, more robust, and more accessible to the prospective reader. The reviewer recommends **publication subject to technical corrections**, with the requested corrections listed at the end.

I thank the authors for engaging in discussion about the study. To re-iterate my original review, I think this paper will be of significant importance in understanding the behaviour of the magnetopause.

### Technical corrections:

- On line 164, the sentence part "small but bias" appears to be missing a word.
- On line 573, the sentence part "more southward IMF conditions with plasma beta < 1 lower ion density and faster solar wind velocities" appears to be missing a comma.

Best regards,

Jonas Suni