

We thank the anonymous referee for the constructive remark.

Point-by-point reply:

Comment:

Line 105-106: "However, only the largest areas in amplitude are defined as electrojets in the context of this study. The selection is done by comparing the integrated current values of each identified sequence of positive and negative current density." I'd still like to see more detail here; as it stands I wouldn't be able to reproduce this result from the paper. This piece should include a short description of the actual algorithm employed to perform this identification, or, if that would make the manuscript too long, a reference to supplementary material that goes into more detail.

Reply:

We have added a more detailed explanation of the algorithm for identifying the electrojets from current density profiles.

List of changes:

- A clearer explanation of the electrojet identification has been added.
- Changed the wording of the sentences talking about Figure 12 in section 3.3 to better reflect the figure and to be consistent with the conclusions in section 4.2
- Small typo and word consistency fixes
- Position of figures was changed to allow for better position relative to the relevant text and prevent the figures from appearing too late in the text.