

# ***Interactive comment on “On developing a new ionospheric plasma index for the Brazilian equatorial F region irregularities” by Laysa Cristina Araujo Resende et al.***

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Dear Authors!

First of all, thank you for choose the Annales Geophysicae to publish the results of your research.

The idea to propose an index as a kind of warning for the occurrence of plasma bubbles sounds very good to the community. I believe that, once your algorithm is ready, it can be useful to Space Weather services.

In order to start the discussion, I have two quick questions on the methodology de-

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scribed in the manuscript:

(1) Why do the authors use only high and descending phases of the solar cycle to validate the methodology?

(2) Is there a special reason for choose November, December and January as summer months? I guess December, January and February would be more representative of the summer season, are not them? The same comment can be applied to the winter months. Why do not the authors use February in their analysis?

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Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2019-42>, 2019.