

***Interactive comment on “Inter-hemispheric seasonal comparison of Polar Amplification using radiative forcing of quadrupling CO<sub>2</sub> experiment” by Fernanda Casagrande et al.***

**Anonymous Referee #3**

Received and published: 27 October 2019

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Major Comments: The authors present here the seasonality of polar amplification (PA) defined as the difference between the different numerical models. I believe the article has a lot of potential because its results show the importance of these analyzes for these regions, and also a greater approach on the subject. However, the article should be enhanced for future publication. For example, the objective is not clear in the Summary. There is no more detailed description of the main objectives that will be addressed in the work. Although the objective is described in the introduction, I find it necessary to present this objective also in the abstract of the article. In addition, the

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results presented also require a more refined discussion. More details, more comparisons are needed for the new version. The conclusions also need to be improved by showing the importance of the work, a well-explanatory summary of the results ...

Specific Comments:

Page 2, L. 40: "Numerous Scientific Publications"? I suggest rewriting this paragraph because it is confusing.

Page 2, L. 56: References ..?

Page 5, L. 129: Replaced "parsed" with "parsed"

Page, L. 132: Attention to section description: 3.1 Polar ...

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Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2019-106>, 2019.

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