

Ann. Geophys. Discuss., referee comment RC1  
<https://doi.org/10.5194/angeo-2021-51-RC1>, 2021  
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## **Comment on angeo-2021-51**

Anonymous Referee #1

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Referee comment on "Long-term studies of mesosphere and lower-thermosphere summer length definitions based on mean zonal wind features observed for more than one solar cycle at middle and high latitudes in the Northern Hemisphere" by Juliana Jaen et al., Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2021-51-RC1>, 2021

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This is interesting paper, which is mostly well done, and only minor revision is requested.

Comments:

Figure 3: Right and left columns in figure, its capture and body of text do not agree each other.

Lines 181-187: You describe what is in panels 3d and 3h but no results which follow from these figures are presented.

Figure 5: Why is break in 2008; visual inspection of Fig. 5 suggests rather 2006. However,

I agree with you that it is not possible to determine the break point quite accurately and your interval  $2008 \pm 2$  years includes year 2006.

Wording and significant misprints:

- Line 107: "Juliusruh PPR" should be "Juliusruh PRR"
- Line 266: "leafed length" should be "leafed season length"

Line 331: "summerl length of" should be "summer length or"