

# ***Interactive comment on “Signs of reduced biospheric activity with progressing global warming: evidence from long-term records of atmospheric CO<sub>2</sub> mixing ratios in Central-Eastern Europe” by Łukasz Chmura et al.***

**Janne Rinne (Editor)**

janne.rinne@nateko.lu.se

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Dear Łukasz Chmura et al., While reading the discussion and rereading the paper, I started wondering the source of the decrease in the seasonal amplitude of CO<sub>2</sub> mixing ratios at the two East European sites. In the paper it is stated that this decrease is equally due to lowering of seasonal maxima and increase in minima (Figures 4 and 5). However, these minima and maxima are derived as differences from long term mean (i.e. average over the seasonal cycle), and thus being affected by these minima and maxima. Thus, it seems to me that this could be a case of circular reasoning. Could

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Discussion paper



you comment on this issue? Best, Janne Rinne

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2019-748>, 2019.

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