

## ***Interactive comment on “Identifying environmental controls on vegetation greenness phenology through model-data integration” by M. Forkel et al.***

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I noticed that parts of the figure caption for Figure 3 in our response are missing. Here is the full figure caption:

Figure 3: Extrapolation capabilities of LPJmL-GSI in terms of monthly FAPAR dynamics. (a) Correlation coefficient between monthly FAPAR time series from LPJmL-GSI and GIMMS3g (1982-2011). Areas without vegetation, with more than 50% agricultural use, or without data are excluded (white). (b) The map shows the distance between each 0.5° grid cell and the closest grid cell that was used in a PFT-level optimization experiment of LPJmL-GSI (GSI.pft). (c) Scatterplot between the correlation coefficient from (a) and the distance from (b) coloured by the Köppen-Geiger climate type of each grid cell. Lines are smoothing splines fitted to the quantile 0.5 of the correlation coefficient

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for each climate type. Star symbols indicate the p-value of a Wilcoxon rank-sum test if the correlation coefficients of distant grid cells (between 600 and 800 km, indicated by vertical dashed lines) are significant lower than of close grid cells ( $\leq 200$  km). (d) Scatterplot between the correlation coefficient from (a) and the difference in mean annual temperature between each grid cell and the corresponding closest grid cell. Star symbols indicate the p-value of a Wilcoxon rank-sum test if the correlation coefficients of warmer grid cells (between +3 and +5°C) are significant lower than of grid cells with similar temperature ( $\pm 1^\circ\text{C}$ ).

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