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Corrigendum to

"The biogeophysical effects of idealized land cover and land management changes in Earth system models" published in Earth Syst. Dynam., 13, 1305–1350, 2022

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This corrigendum is intended to correct some mistakes that got into the final publication during the production process of the paper. Due to an oversight, these mistakes were only discovered after publication of the paper.

The affiliations in the initial article for Edouard Davin were outdated, and the updated affiliations are given here below.

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Furthermore, Fig. 5 in the published paper is wrong; the maps for MPI-ESM (second row) accidentally showed the values of near-surface temperature instead of surface temperature as the header intended. The authors would like to acknowledge Johannes Winckler for his keen eye on spotting this error.

The changes needed in the text (Sect. 3.2.1.) as a consequence of this change are listed below.

- Line 364: MPI-ESM also simulates local warming over the tropics, but with a different spatial pattern and magnitude compared to CESM and EC-EARTH.
- Lines 373–174: In all ESMs, the local signals dominate the total response in the tropics.



Figure 5. Annual mean surface temperature response to cropland expansion (CROP-CTL) of CESM (top row), MPI-ESM (middle row), and EC-EARTH (bottom row). For CESM, the local effect (**a**), the non-local effect (**b**), and the total effect (**c**), as well as the global latitudinal average of the local (blue), non-local (yellow), and total (green) signals (**d**). (**e**–**h**) Same as (**a**–**d**), but for MPI-ESM. (**i**–**l**) Same as (**a**–**d**), but for EC-EARTH. The stippling on the maps shows grid cells where all five ensemble members agree on the sign of change.