

Interactive comment on “Comparing the influence of net and gross anthropogenic land use and land cover changes on the carbon cycle in the MPI-ESM” by S. Wilkenskjeld et al.

S. Wilkenskjeld et al.

stiig.wilkenskjeld@mpimet.mpg.de

Received and published: 27 June 2014

Figures for answer to anonymous review #3

For some technical reason, the figures were not attached to the original answer, but here they are, though still in a not too viewer-friendly format. Be patient and scroll to the bottom. The real captions are in the first version, where no pictures are shown, the second version with pictures but with cut captions. Sorry for that – I hope that the editorial staff will bring it nicely together in near future.

C2938

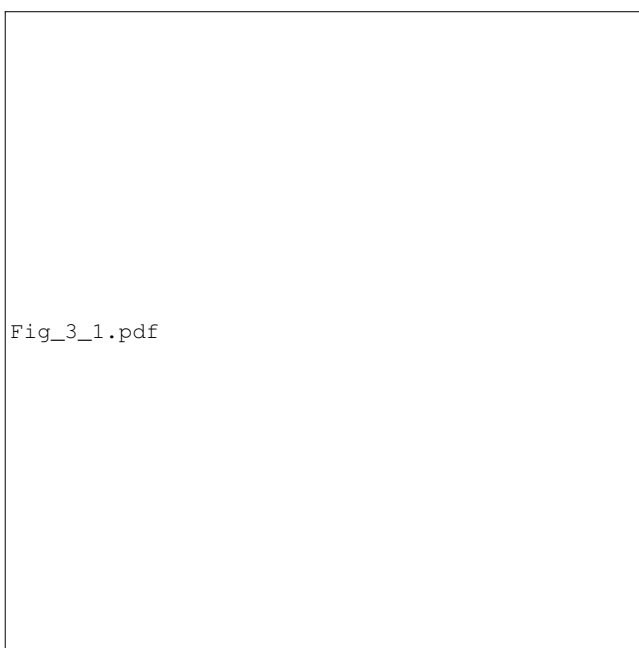


Fig. 1. Additional LCE caused by fixing wood harvest to the level of 1850 (from the difference between `hist_none` (`rcp_none`) and `hist_harv` (`RCP_harv`)). The accumulated LCE difference between the experiments has been added to the legend.

C2939

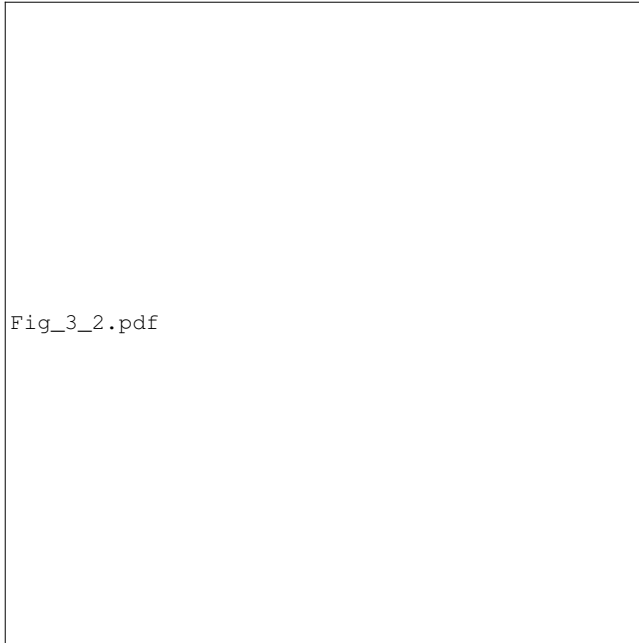


Fig. 2. Global annual area which has undergone land-cover-changes.

C2940

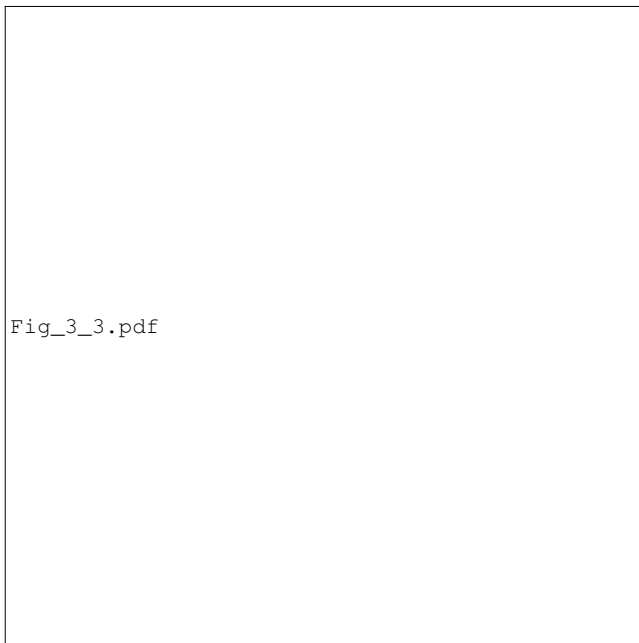


Fig. 3. Yearly average land-use changes [$10^3 \text{ km}^2/\text{latitude band}/\text{yr}$] (in the T63 Gaussian grid, the shown latitude bands are about 1.87 degrees) between pairs of vegetation classes for the scenarios. E.g. in the upper panels, the blue curve is the gross conversion from forest to crop, the black gross crop to forest, the red net forest to crop and the magenta net crop to forest. Note that the scale of conversions between pasture and crop (lower panels) is 1/30 of that of the others.

C2941

C2942

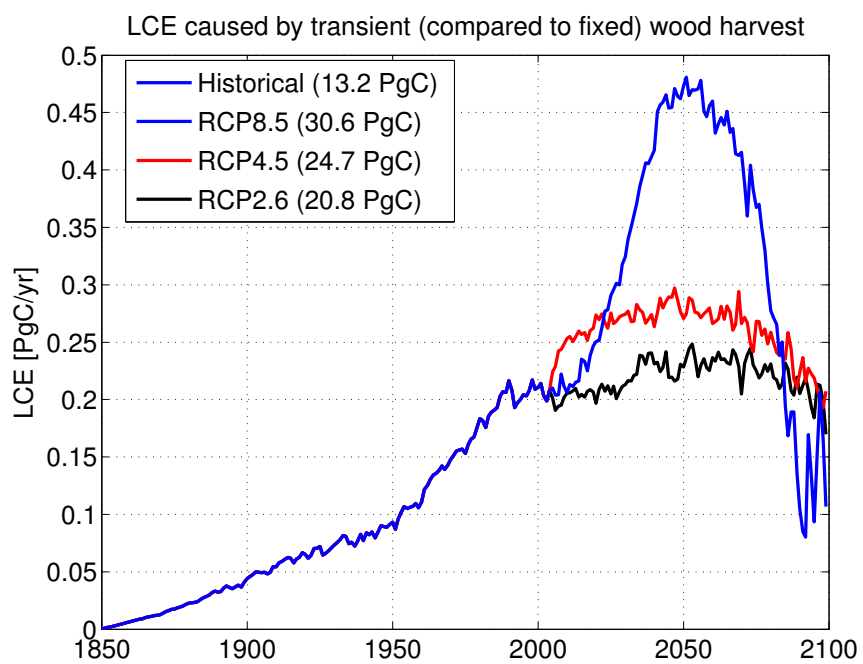


Fig. 4. Figure 3-1: LCE contribution from wood harvest.

C2943

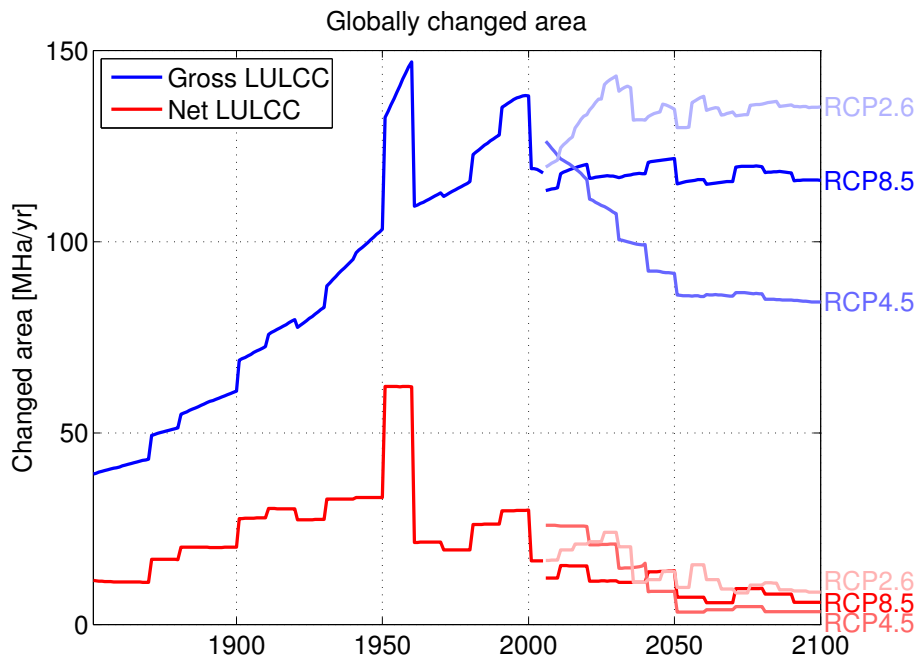


Fig. 5. Figure 3-2: Time series of annual vegetation areas converted by LULCC for the used scenarios.

C2944

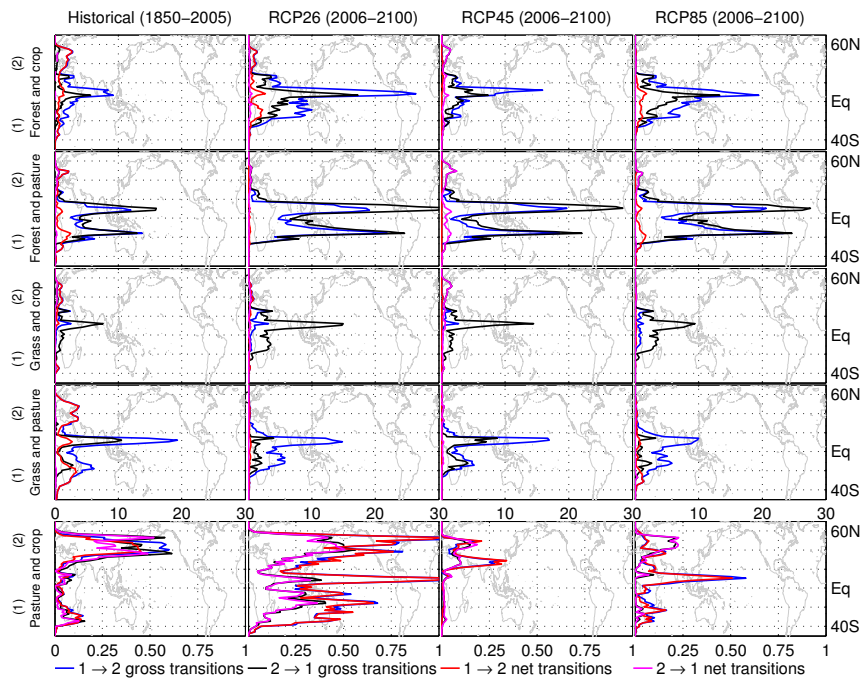


Fig. 6. Figure 3-3: Yearly average land-use changes [$10^3 \text{ km}^2/\text{latitude band}/\text{yr}$]. [Full caption in text].

C2945