Editor's comment on

A. Bayer, M. Lindeskog, T.A.M. Pugh, P. Anthoni, R. Fuchs and A. Arneth

"Uncertainties in the land use flux resulting from land use change reconstructions and gross land transitions"

Earth System Dynamics Discussions, doi:10.5194/esd-2016-24

December 22, 2016

As editor I thank the authors for carefully addressing the issues raised by the reviewers. In particular I appreciate the inclusion of the LUH2 dataset into the revised manuscript.

For preparing the final version of your paper, I would like to point your attention to the paper by Hansis et al. (2015) that also addresses several types of uncertainties (harvest, legacy fluxes, initial state). I suggest to compare your numbers for uncertainties with theirs in the discussion.

MINOR REMARKS:

- Line 137: Since the datasets are so basic for your paper, I suggest you shift table S1 listing the dataset characteristics from the supplement to the paper itself. Or you merge it with table 1 that contains overlapping information.
- Lines 178/179: Would it be useful to name explicitly in which "several aspects" the data sets differ?
- Line 249: What is the meaning of the abbreviation "CFT"?
- Line 644: Uncertainties in emissions from land use change arising from different grid resolutions have been estimated in the paper by Wilkenskjeld et al. (2014) that you already cite in different contexts.
- Figs. 1 and 2: The grey color in your plots is hardly recognizable. I suggest to use another color.
- All Figures: Please consider whether you want to use a larger font in the figures, it may happen that in the final paper the figures are so small that labels are hardly readable.

LITERATURE:

Hansis, E., S. J. Davis, and J. Pongratz (2015), Relevance of methodological choices for accounting of land use change carbon fluxes, Global Biogeochem. Cycles, 29, 12301246, doi:10.1002/2014GB004997.

I wish a happy Christmas!

Christian Reick