

## ***Interactive comment on “The contribution of land-use change versus climate variability to the 1940s CO<sub>2</sub> plateau: Former Soviet Union as a test case” by Ana Bastos et al.***

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Yes, thank you.

I do not have problems with climate, I believe you have done that's correctly. That's a just may be a encouragement to clarify in the text about what you mean with the warming during 1940s.

Regarding war disturbances on lands: yes, I understood your point of comparing with the set of models in Bastos et al. (2016). However, the problem still exists in my view. You are introducing new estimates of C fluxes due to land use change, however, do

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not take into account all disturbances (C losses) on abandoned land during the war. In that case problem only relates to the abandoned land. You underestimate C losses on abandoned land and therefore potentially overestimate sinks.

Verification - yes, of course, I read carefully your paper, Table 2 and comparison analysis. Still in my view, there is not comparison for abandoned lands, only total for Russia and FSU (stocks and C sinks). Your results - 0.4 PgCyr<sup>-1</sup> - are still in the range of uncertainty between simulated data and estimations of net C sink with data of (Kurganova et al., 2010) in table 2.

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