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Interactive comment

Interactive comment on "Reviews and syntheses: Anthropogenically breaking macro-ecospatial "chains"? – case review of HU Line" by Yi Lin and Martin Herold

Yi Lin and Martin Herold

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Response to reviewer comments Response: Sincere thanks to the reviewer's constructive comments.

General comments: Very interesting paper synthesising knowledge about the HU line and how people have tried to deal with it or break it in the past and predict its changes in the future using models. I have no major concerns about the paper, just a few comments. I think the abstract should be modified slightly in order to improve clarity for non-expert readers. I had some troubles understanding it. I would suggest working a bit on that. The concept of the HU- line is probably not enough widely known so that

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actually geoengineering? Consider adding something about it in the text, it may solve someone else's questions as well. Response: 'geoengineering' was not involved here.

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an inference as the reviewer thought or giving a confirming answer to any questions

aimed at in this study. L. 289-303: Here the authors seem to imply that demographic changes occur mainly because of changes in regional climate and that deforestation strengthen the HU line. I think it's possible climate changes drove these changes, but what about historical events and successive governments with different agendas? Can you provide some information about geopolitics of the region for that period of time? They may also be relevant in order to understand why the HU line emerged during this period. No remarkable comments thereafter. Response: Yes. Climate changes and deforestation did briefly lead to demographic transfers and the formation of HU Line for such a large region. Historical events and geopolitics played minor roles during this period, as little mentioned in the overview work (Wang, 1995).

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2019-418, 2019.

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