Interactive comment on “A cultivated planet in 2010: 1. the global synergy cropland map” by Miao Lu et al.

Anonymous Referee #2

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The authors created a global cropland map based on multiple LULC products by using the SASAM model. The synergy map presents high accuracy at global and regional levels, showing a promising use in the estimation of global agricultural production and policy-related managements, especially in the regions where lack of data.

I did not check the first draft of the paper, but I think the revised version has addressed the necessity of this work appropriately. All the sections are well presented. The different classification schemes incorporated in the multiple LULC datasets, as well as the uncertainties resulting from the pastureland, are also included in the discussion.

Therefore, I think the manuscript can be accepted for publication after the following minor questions are addressed

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Minor revisions: Line 244, "... to consider than the national ...". Here I think it should be "... to consider that the national...". Line 249-269: The cropland distribution in Argentina in Fig.3. According to the rules, Fig.3C shows the merged cropland map based on the first and second subnational maps. My concern is since regions C-F have a total cropland area of 764.98 km², what is the spatial distribution of these croplands? I am confused that I did not see the cropland distribution in regions C-F in Fig.3C. Maybe I did not quite understand the methods. Would you add some explanations about this?

Besides, it would be great if you can share your code of this work together with the synergy map.