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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Comparison of land-atmosphere interaction at different surface types in the mid- to lower reaches of Yangzi River Valley" *by* W. D. Guo et al.

Anonymous Referee #2

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The comparison studies for data analysis from paired observational sites under same (or similar) climate background could reveal the differences of energy budgets which resulted by land surface characteristics directly and quantitatively. The mid- to lower reaches of Yangzi Rivers is located within the East Asia Monsoon zone, and the mechanism of LULCC is complicated because of the interaction between the general circulation and human activities. The four surface types selected in this study are the most typical in the region. The paper is well organized and written, I suggest it will be published after some revision.

1. A subplot is suggested to be added in Fig 1, which content the location of 4 sites with satellite background. It will be better understanding than written-description. 2. I also

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suggest the DX and XL are replaced by DX_urban and XL_suburb; 3. In P12, L1-2, this sentence should be present in part 2.3.1, after the variables description. Is there any more QA/QC consideration for eddy covariance data processes? 4. The approximate irrigation schedule should introduce in the part of LS_crop site description; 5. In Fig 11. There exist obvious high correlation between albedo and precipitation for LS_crop and DX sites and low correlation between LS_grass and XL sites, I suggest the authors give some interpretation. 6. Page 16, L9-10, the variation for RH is mainly affected by synoptic system, it is hard to depict it varies with the Bowen ration and temperature.

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