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Interactive comment on "Last Decade Progress in Understanding and Modeling the Land Surface Processes on the Tibetan Plateau" *by* Hui Lu et al.

Anonymous Referee #2

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This manuscript reviews the progresses in modeling land surface processes on the Tibetan Plateau (TP) in the past decade from four aspects listed in abstract. The review is relatively comprehensive. The manuscript is also well written. Regarding to the modeling land surface processes on TP, I have several comments,which have not been mentioned or mentioned but not well addressed in the manuscript. 1) In the past decade, the LSM simulations have been performed on more fine scales in comparison with previous, which were benefited from the fine resolution forcing datasets and the improved model parameterization schemes. 2) The implication of satellite observation, in particular, in the ungauged/non-observational areas, has been greatly improved our understanding the land surface processes. For example, the satellite observation provides high resolution precipitation (e.g., CMORPH, FY-x), the revolutionary of land

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use/land cover, and the streamflow information etc. 3) In recent years, more in-situ meteorological stations have been installed and more field trips have also been conducted in the TP (e.g., the Second Tibetan Plateau Scientific Expedition and Research). All of them bring new information over TP which are known little in previous.

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