

Interactive comment on “Recent advances in land surface climate observations on the Tibetan Plateau” by Y. Ma et al.

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Question (Q): This paper describes the surface processes over Tibetan Plateau. So scientific interests is very significant. However, this is only a review paper NOT an article. This paper only describes the already published results very roughly. Even in a review paper, scientific results should be described with more detailed way. Practically, results are presented as (1),(2)..... in each section. But each result does not refer the published paper. Some references are only shown in the first part of each section in series. Readers do not know which reference corresponds to which results. Please use the references more effectively. Answer (A): Thank you very much for your very nice comments and suggestions. We have revised the manuscript following your suggestions and each result has been described with more detailed and refer each published

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paper separately (see the revised manuscript, please). At same time, some results are the new results analyzed from the in-situ data observed from the Tibetan Observation and Research Platform (TORP). And therefore the references are not shown after the descriptions of these results.

Q: Results in Figs.3-5 are only practical data, which readers can see in this paper. But details are not shown. Is this a representative of Tibetan Plateau or in some observation site? A: Thank you very much for your comments. Figure 3 is from the reference (Li, M., Y. Ma, W. Ma, Z. Hu, H. Ishikawa, Z. Su, and Sun, F.: Analysis of turbulence characteristics over the northern Tibetan Plateau area, *Advances in Atmospheric Sciences*, 23(4), 579-585, 2006a.), it was deleted in the revised manuscript. Data used in Fig.3 is average values from six stations (sites) shown in the literatures (Ma et al., 2005; Ma and Ma, 2006; Li et al., 2007; Zhong et al., 2007b). Fig.4 is just analyzed from data observed over the Mt. Everest area. We have also pointed it in the revised manuscript.

Q: P.951 misuse of 'covariance' should be variance or standard deviation. A: Thank you very much for your suggestion. "covariance" have been changed to "variance" in the revised manuscript.

Q: P.951 a)"height dependent turbulence statistics": No description about multi-level turbulence measurements. A: Thank you very much for your comments. There is description about multi-level turbulence measurements in the references (Choi et al., 2004; Hong et al., 2004; Asanuma et al., 2005).

Q: Anyway, this is not useful for reader as it is. I recommend full revise and submit again. A: Thank you very much for your comments and suggestions. The manuscript was almost fully revised according to your suggestion.

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