

Interactive  
Comment

# ***Interactive comment on “Combination satellite and in-situ data for the determination of evapotranspiration over heterogeneous landscape of the Tibetan Plateau” by Y. Ma et al.***

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General comments:

The Tibetan Plateau plays an important role in the Eastern Asian even global climatology, and its land evapotranspiration is a key aspect of the hydrological cycle in the Tibetan Plateau. Comparing to the evapotranspiration, the evaporative fraction could reveal the land moisture condition more reasonable than evapotranspiration, and its daily variation is relatively stable. Based on these aspects, the authors estimated the spatial and regional EF over the Tibetan Plateau by using the algorithm developed

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by themselves. These have great contributions to the water and energy cycles of the land-atmospheric system in the Tibetan Plateau.

This investigation deployed large amount of the ground measurement data, the logic and objectives of the presentation are clear, it is the first to analysis EF by using satellite remote sensing data and in-situ ground measurement in the Plateau. Although there are some flaws in text, but I still recommend it is to be published in ACP after a minor revision.

Specific points:

P1: Change “Combination satellite and in-situ data for the determination of evapotranspiration over heterogeneous landscape of the Tibetan Plateau” to “Combining satellite and in-situ data for evapotranspiration estimates over heterogeneous landscape of the Tibetan Plateau”.

P2L4: Change “deriving” to “estimating”.

P2L4: Change “methodology” to “algorithm”.

P2L10: Change “the comparison” to “the inter-comparison”.

P2L11: Delete “derived”.

P2L14: Change “derived” to “estimated”.

P2L18: Change “10%” to “10.0%”.

P2L21: Change “methodology” to “algorithm”.

P3L2: Change “on the globe” to “on the Earth”.

P3L22: Change “purpose” to “objective”.

P4L5: Change “Our goal is not estimation of ET” to “Our goal is to estimate ET”.

P4L13: Change “very briefly” to “instantaneously”.

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P5L13: Change “methodology” to “algorithm”.

P5L13: “The using satellite” to “The usage of satellite”.

P6L17: Insert “.” between “1” and “iAN”.

P6L21, 23: Change “images” to “swath”.

P8L15: change “derived” to “estimated”.

P8L21: change “derived” to “estimated”.

P10L9: “Concluding remarks In this study”?

P10L10: Change “derived” to “estimated”.

P10L11: “data is the” to “data are the”.

P10L12: Change “data for the determination of EF” to “data for estimating EF”.

P10L15: Change “Regionalization” to “Regionalizing”.

P10L24: Delete “works”.

P14: Add legend to Fig.1

P17: Keep same size for each sub-maps

P18: Keep same size for each sub-maps

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Interactive comment on *Atmos. Chem. Phys. Discuss.*, 13, 8435, 2013.

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