

Interactive comment on “A new approach to accurate validation of remote sensing retrieval of evapotranspiration based on data fusion” by C. Sun et al.

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- The RS-derived ET could not be evaluated by station-observed data directly because the difference of the scale. The aim of the paper is to present We suggested in our paper that the RS-derived ET could be evaluated by comparison of RS-computed Runoff (with SWAT) and the observed Runoff: 1) RS-derived ET is used as one of the input factors for SWAT, 2) RS-derived ET and other data (Digital Elevation Model (DEM), land-use data, soil data, etc) are processed together in SWAT to simulate the hydrological cycle, 3) The Runoff is output from the SWAT, 4) The output Runoff is compared with observed runoff data, 5) The RS-derived ET is evaluated based on the results of 4).

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- The PM-derived ET could also be evaluated in the same way with SWAT. This part is used to indicate the commonly used point-based approach only. It is not used for evaluation of RS- derived ET. We focused on the evaluation method.

- We will modify and compress the abstract.

Thank you for your comments. We will revise the manuscript to demonstrate our findings more clearly.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 1745, 2010.

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