

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

Anonymous Referee #1

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– There are three models for estimation of ET listed in Section 3: (1) RS-retrieved, (2) Penman-Monteith, and (3) SWAT. SWAT already has the option to estimate ET with the Penman-Monteith equation. It is not clear what is the difference between (2) and (3).

– How was the “data fusion” into SWAT performed – simply by directly inserting the PM/RS-computed ET into SWAT? Towards the end of Section 5.2, it is explained that the PM-computed ET is done using only a single meteorological station. So, in this case the SWAT PM-based runoff was computed assuming that the PM-estimated ET is representative for the whole catchment? If so, what would be the implications of this assumption?

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