

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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-There are two models for estimation of ET in our paper: (1) RS-retrieved, (2) Penman-Monteith model. The Penman-Monteith model is adopted in the SWAT as a basic module. It is no difference between (2) and (3). We will modify the Section 3.3 and 3.4 to reduce misunderstandings.

-We have modified the diagram to demonstrate our approach more clearly: 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), landuse data , soil data, etc) are processed together in SWAT to simulate the hydrological cycle, 3)The Runoff is output from the

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SWAT, 4)The output Runoff is compared with observed runoff data, 5)The RS-derived ET is evaluated based on the results of 4).

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.

Thank you very much for your consideration. We will revise the manuscript later according to your comments.

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

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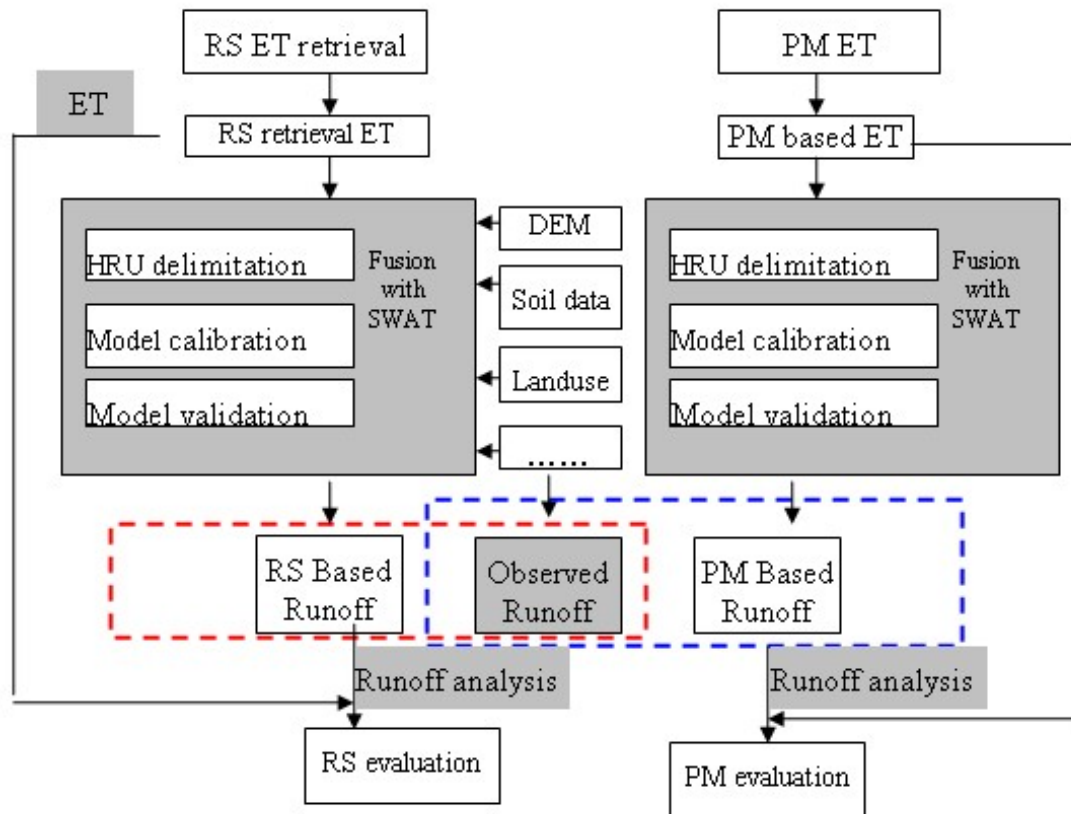


Fig. 1. diagram