

Hydrol. Earth Syst. Sci. Discuss., referee comment RC1  
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## Comment on hess-2022-210

Anonymous Referee #1

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Referee comment on "Improved soil evaporation remote sensing retrieval algorithms and associated uncertainty analysis on the Tibetan Plateau" by Jin Feng et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-210-RC1>, 2022

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### General Comment:

This manuscript tried to improve the satellite-based land surface ET algorithm by introducing soil moisture. Using satellite data to simulate the water cycle or calibrate models are very attractive considering the growing availability of remote sensing data. The method is reasonable, the findings are useful, and the article was well written. However, there are still some minor issues that need to be addressed.

### Specific Comments:

- L15: ‘... introducing two frameworks ...’ there are no any information about these ‘two’ in this sentence. It would be better combine this and the following sentence.
- L20: ‘two improved P-LSH algorithm’ seems not clear. What are they?
- It is better to highlight the significant point of the study further.
- Table 1: why use 30”
- Figure 3 and 4: More information (A1, ...; ETrecon) is needed in the caption to make it be understandable.
- I am not quite clear how the authors evaluate the ‘uncertainty’.