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Hydrology and Earth System Sciences Discussions

Interactive comment on "Measurement and estimation of the aerodynamic resistance" *by* S. Liu et al.

S. Liu et al.

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The authors thank Referee #3 for the detailed review and comments on this paper. Following is our response.

1. Referee #3 thought that other models should be compared with Thom model. In our paper, all the models are compared with the observed. Of course, we will take his suggestion into account in the revised paper.

2. Referee #3 pointed out that some old model is hardly to use again in practical applications nowadays. We agree to it. Our purpose is to select the best one in the calculation of the aerodynamic resistance for remote sensing models, so we evaluate many kinds of models for the aerodynamic resistance. We will take his suggestion into account in the revised paper too.

3. We accept the suggestion of Referee #3, and we will carefully analyze these reasons of the precision difference of models in the revised paper.

4. As for the description of observation site, we will give a more detailed description about field observation in the revised paper.

5. Referee #3 also commented on the relationship between rah and wind speed. We will explain more in the revised paper to answer all of his/her questions in this aspect. The diurnal variation of atmosphere stability, wind speed, kB-1, et al will be taken into account.

6. We agree to the comment of Referee #3 about the evaporation-pan absolutely. And we did so during the experiment.

7. As for Zom and Zoh, we will determine the values based on experimental data and put them into models in the revised paper. Please refer to our reply - 'AC S283' (published on 13 June 2006).

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 3, 681, 2006.