

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

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After reading the manuscript and the reviews I do support the submission of a new version of the manuscript. Apart from the many useful comments done by the reviewers, please make sure to address carefully the following issues:

(1) The organisation of the comparison of the various methods to determine the aerodynamic resistance should be greatly improved. I suggest to follow the suggestion of reviewer #1, who groups the methods into Monin-Obukhov and simpler methods. Also, a sensitivity study for T , z_{0m} and $\ln(z_{0m}/z_{0h})$. I prefer to use the observations as reference, as suggested by the authors

(2) The practical consequences of the uncertainties in determining rah should be in-

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cluded by showing the effect on the calculated heat fluxes, as suggested by the 2nd contribution of reviewer #1

(3) Please pay due attention to the observational error, especially during night-time. A physical explanation of the "V"-shape must be addressed, including the potential contributions of low signal/noise ratios in the nocturnal measurements.

(4) Please take a look at the English (see suggestions of reviewer #3)

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

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