

Interactive comment on “Leaf-scale experiments reveal important omission in the Penman-Monteith equation” by Stanislaus J. Schymanski and Dani Or

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Received and published: 10 August 2016

It's great to see a back-to-basics assessment of the water and heat fluxes of a leaf and I commend you for that. I am sure it is a good time to go back to studying the aerodynamic resistances of sensible and latent heat fluxes. My only substantial comment is this: if you are going to go into the physics and mathematics of whether there are stomata on both sides of the leaf or not, should not you also consider the impact of the fact that the leaves usually are held perpendicular to the sun's rays? This means that one side of the leaf is sunlit and the other is shaded giving substantially different surface temperatures. Does this not affect the equations too? How was the sun-shine included in the wind tunnel? Would it make a difference if the short wave radiation is

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diffuse?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-363, 2016.

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