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Hydrology and Earth System Sciences
Discussions

Interactive comment on "Comment on "Technical Note: On the Matt–Shuttleworth approach to estimate crop water requirements" by Lhomme et al. (2014)" *by* W. J. Shuttleworth

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The last interactive comment by Shuttleworth clearly recognizes that deriving surface resistance from the Kc values of the FAO tables with the "true" value of the PT coefficient is problematic, since the effective weather conditions under which Kc values were determined are not specified. I think there is now an agreement between Lhomme et al. (2014) and Shuttleworth (2014) on the main points emphasized in their respective comments, namely: (1) the use of the preferred value rclim pref derived from E0 = EPT is a default assumption recommended when the meteorological conditions under which the value of Kc was determined are unknown; (2) the Matt-Shuttleworth approach is

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easily adaptable to fine tune estimates of surface resistance by using the value of rclim pref relevant in the conditions when the value of Kc was calibrated; (3) if UN-FAO decides to update Irrigation and Drainage Paper 56 using the Matt-Shuttleworth approach, a preliminary work should document the specific conditions under which crop coefficients were defined (temperature, radiation, humidity. . .).

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 5367, 2014.