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# ***Interactive comment on “Modeling stomatal conductance in the Earth system: linking leaf water-use efficiency and water transport along the soil-plant-atmosphere continuum” by G. B. Bonan et al.***

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This is an excellent paper that needs to be published. The ideas in it are very exciting. We have been waiting a long time to break away from the Ball-Berry method of linking photosynthesis and transpiration and their links to soil water stress. The assumptions in the Ball-Berry method have dominated the Land Surface Models used in climate modelling and depend on a difficult to calibrate link between stoma and humidity deficit that I think is not entirely mechanistic. For such an important aspect of the earth system, it is really important to explore new ways of solving the riddle and this paper

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describes a very promising avenue. The paper is well written and would allow other researchers to try the ideas out. I urge that the paper is published forthwith.

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Interactive comment on *Geosci. Model Dev. Discuss.*, 7, 3085, 2014.

**GMDD**

7, C579–C580, 2014

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C580

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