



Interactive  
Comment

# ***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.***

**E. Blyth (Referee)**

emb@ceh.ac.uk

Received and published: 20 May 2014

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

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



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.

---

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

**GMDD**

7, C579–C580, 2014

---

Interactive  
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

C580

