

Interactive comment on “Internal respiration of Amazon tree stems greatly exceeds external CO₂ efflux” by A. Angert et al.

D. Metcalfe (Referee)

daniel.metcalfe@slu.se

Received and published: 11 September 2012

This paper provides strong evidence for upward transport of CO₂ in xylem, for the first time in tropical trees. This is important because it means that most previous measurements of stem CO₂ efflux are incorrect, and that the responses of stem CO₂ efflux and, potentially, the forest photosynthesis and productivity to climate changes (e.g: drought and CO₂ levels) could differ than currently assumed. The manuscript is generally very well written, the method appears robust, the results are carefully considered and the conclusions are persuasive. I have only very minor comments for changes.

Page 11462, Line 12) Small point, but check the use of commas throughout the manuscript. They sometimes seem to be placed in strange places, as in this line

C3925

Page 11463, Line 23) This should be "closure" not "closer" i assume.

Interactive comment on Biogeosciences Discuss., 9, 11443, 2012.

C3926