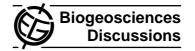
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5, S2260-S2261, 2008

Interactive Comment

Interactive comment on "Carbon and oxygen isotope analysis of leaf biomass reveals contrasting photosynthetic responses to elevated CO₂ near geologic vents in Yellowstone National Park" by S. Sharma and D. G. Williams

S. Bouillon (Editor)

Steven.Bouillon@ees.kuleuven.be

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Below is a review of this manuscript which was submitted by the referee directly by e-mail to the handling editor rather than through the COSIS system.

p.3827, lines 15-18. How large are the 'very minimal traces' of H2S? S2260



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Interactive Discussion

Discussion Paper



Reviewer 2 comments on bgd 2008 0117

This manuscript reports a valuable and innovative piece of work.

Obviously <1% of the total gas, from the statement that >99% of the gas is CO2.

p.3829, lines 5-10. Can air temperatures also influence photosynthesis and water relations?

p.3839, lines 9-10. At what time of year were the samples taken and, presumably, the soil temperatures were measured?

p.3830, line 11. 'A simple mass-balance…..'

p.3830, lines 24-25. Please give a reference for the δ13C of atmospheric air.

p.3833, line 1, Presumably (p.3825, lines 15-18) there is no water vapour in the vent gas.

p.3834, line 26. 'lodgepole pine decreases with an increase'

p.3834, lines 26-29; p.3835, line 1.This text is does not agree with Figure 4. The Figure makes no mention of only the lodgepole pine data being used to generate the regression line, r2 and probability, while the text makes it clear that the regression etc. only applies to lodgepole pine.

p.3835. 'levels for centuries'.

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Interactive Comment

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Interactive comment on Biogeosciences Discuss., 5, 3825, 2008.