

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)

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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. _____

Reviewer 2 comments on bgd 2008 0117

This manuscript reports a valuable and innovative piece of work.

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

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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 $\delta^{13}\text{C}$ 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 does not agree with Figure 4. The Figure makes no mention of only the lodgepole pine data being used to generate the regression line, r^2 and probability, while the text makes it clear that the regression etc. only applies to lodgepole pine.

p.3835. Levels for centuries;.

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

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