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***Interactive comment on “Ventilation of
subterranean CO₂ and Eddy covariance
incongruities over carbonaceous ecosystems” by
A. Were et al.***

Anonymous Referee #2

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This is a good paper dealing with an important effect of carbonaceous systems on ecosystem CO₂ fluxes. My comments are arranged below by page numbers. I need to point out that I am not an EC specialist, so some of my comments may reflect misunderstandings on how these instruments work or are interpreted.

p. 10914, line 12. I do not like “caves” as a synonym for “macropores.” I would replace “caves” throughout the text with “cavities,” which is a more reasonable term. A cave implies an opening big enough for a person to enter. p. 10916, line 12. Does LE represent latent heat or evapotranspiration or both? Clarify. p. 10916, line 25. After “mid-October,” mention the year that these systems were installed. p. 10917, line

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7. The address should be presented as “Hayward, CA, USA.” p. 10917, line 16-17. “Within or outside the 50 % source area boundaries” would cover the Earth. So it is not clear what you are saying with this statement. It is also not clear what maximum source weight means. p. 10920 (text) and p. 10933 (Fig. 5). I have a lot of trouble understanding Figure 5. In the Fig. 5 caption, you refer to 50% source areas of EC1 and EC2, but both figures have four circles, not two. Are these boundaries for 50 and 100%? Please clarify. p. 10921, lines 3 and 6. No idea how to visualize the “up to 30 m” and the “less than 9 m” images in Fig. 5.

Interactive comment on Biogeosciences Discuss., 6, 10911, 2009.

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6, C3737–C3738, 2009

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