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Comment

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

Anonymous Referee #1

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Basically I think this paper is acceptable for publication as is. It is an original contribution that demonstrates the influence that atmospheric ventilation of soils and subsurface cavities can have on CO₂ eddy covariance fluxes. As such this paper describes an important, but infrequently recognized, process that can have significant influence on soil CO₂ fluxes. I really have only one suggestion or question that the authors might wish to address before publication.

(I) Equation (2) on page 10919 uses $|F_{-1}|$ as the metric or normalization for the calculation of E_r (epsilon_r). But I wonder if a better normalization factor would be $|F_{-1}| + |F_{-2}|$ for CO₂ fluxes and $(F_{-1} + F_{-2})$ for the ET fluxes?

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