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***Interactive comment on* “Hydrologic control of the oxygen isotope ratio of ecosystem respiration in a semi-arid woodland” by J. H. Shim et al.**

Anonymous Referee #3

Received and published: 15 April 2013

This paper presents long-term variations of oxygen isotope composition in relation to hydrologic condition in a semi-arid woodland. This manuscript fits well in the scope of this journal as aspects of explaining variations in the oxygen isotope composition of ecosystem respiration in a semi-arid woodland. Moreover, this study provides on information for long-term monitoring of the connection of oxygen isotope ratios between atmospheric CO₂ and wood leaves (*Juniperus monosperma*). These observations are useful to understand variations of carbon and oxygen circulation to climate change. I believe that this manuscript is comparatively well-written and discussion is well-conducted. Here are some minor revisions and comments:

Specific comments:

1. page 3 line 3: Check a reference “Riley et al. 2003, 2005”

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2. page 27 line 3, Reference: Sharp, 2005 should be move to the position after Seibt et al., 2006 in p28.

3. page 29 line 1, Reference: Whang and Yakir, 1995 should be move to the position after Walker et al. 1988 in p28.

4. Discussion and Conclusions: If these results give some information linked carbon cycle, I would suggest that the authors add an implication of that.

Interactive comment on Biogeosciences Discuss., 10, 1, 2013.

BGD

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