

***Interactive comment on “Potential soil moisture products from the Aquarius radiometer and scatterometer using an observing system simulation experiment” by Y. Luo et al.***

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Received and published: 23 August 2012

The reviewer made a very good point. But we respectfully point out that Figure 3(b) instead of Figure 4(b) shows that radiometer has higher soil moisture estimates uncertainties during cold season. The reason is that densely vegetated pixel has higher vegetation water content in winter months than in summer months. The higher vegetation water content in cold season is likely attributed to winter wheat. Based on these facts, we conclude that vegetation cover has more impact on soil moisture retrievals in winter months than summer months. To clarify our point, we will add these explanations in section 4.1 of the revised paper.

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