

***Interactive comment on “Retrieval of Canopy  
component temperatures through Bayesian  
inversion of directional thermal measurements”  
by J. Timmermans et al.***

**Anonymous Referee #2**

Received and published: 20 April 2009

The idea is very good trying to retrieve the four-component temperature using multian-  
gular thermal data. The method is reasonable and provides a systematical accuracy  
assessment.

Although I agree that the success rate is a good indication, I am expecting a short com-  
parisons among the four-component temperatures. For example, I did not see clearly  
the separate inversion error of the sunlit leaf temperature. And, which component has  
the largest error? Also, it will be better to consider the error from 4SAIL model itself for  
assuming the heterogeneous canopies as homogeneous ones.

In addition, I found some minor language mistakes, such as the citation error of the

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figure number and equation number, and spelling error "the measured en modelled". I guess it will be corrected in the revised version.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 3007, 2009.

**HESSD**

6, C346–C347, 2009

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