

Interactive
Comment

Interactive comment on “Dimensionality reduction in Bayesian estimation algorithms” by G. W. Petty

Anonymous Referee #3

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The topic of the paper is very important and the results useful in the development of new satellite rainfall retrievals. The paper is overall well written, giving a clear explanation of the work done. However, I would like to see an application to a database consisting of real data (e.g. TRMM-TMI brightness temperatures vs co-located TRMM-PR rain) or simulated from cloud-resolving model (cloud-radiation database). In this way, it would be possible to understand the algorithm performance under real conditions. In particular, the impact on your approach of the following crucial assumptions could be considered: 1) Actual brightness temperature covariance matrix, 2) Effect on non-linearities in the brightness temperature - rain relationships.

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 2327, 2013.

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Discussion Paper

