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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Retrieval of cloud liquid water distributions from a single scanning microwave radiometer aboard a mobile platform – Part 2: Observation system simulation experiments" *by* D. Huang et al.

D. Huang et al.

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Anonymous Referee #1 Received and published: 20 August 2009 General Comments: This paper is a nice complement to Part 1, which dealt with real data and retrieval algorithms.In general, the paper is well written and well motivated, and includes realistic scenarios of experiments that could be conducted. My only quibble, and it is a minor one at that, is that the authors do not consider an upward-viewing scanning radiometer. With the Observation System Simulation software that the authors have developed, the extension to upward-viewing aircraft radiometry would be an easy, but profitable,

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avenue to explore.

Response: We thank the reviewer for his/her valuable comments.

Technical Comments. 1. P12069,L16. “a typical design of research aircrafts”. Some research aircraft look up. Please be more precise.

Response: Taken. The sentence has been rephrased to read: “The microwave radiometer is mounted to the bottom of the aircraft, which is a widely-used design of research aircraft. ”

2. P12071, L17. Should be “convolution of Eqn. (1) with”.

Response: The sentence has been rewritten as suggested..

3. P12074, L22. Should be Fig. 3.

Response: The typo has been corrected.

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 12065, 2009.