

## ***Interactive comment on “Global statistics of liquid water content and effective number density of water clouds over ocean derived from combined CALIPSO and MODIS measurements” by Y. Hu et al.***

### **Anonymous Referee #2**

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I find that the work by Hu et al. in manuscript “Global statistics of liquid water content and effective number density of water clouds over ocean derived from combined CALIPSO and MODIS measurements” is complete, and technically very component. It constitutes an interesting example of interdisciplinary efforts currently underway across the community to study the effect of air-sea interactions on climate change. The research is original and the paper is well written and organized. Overall, I recommend publication with some minor modifications.

Could authors provide the locations and time periods for CALIPSO measurements, and

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the time periods over which the monthly mean MODIS data were obtained?

Some minor recommendations:

On page 4067 Introduction section and located at line 15, there is a small typographical error. The wording "te Earth's Radiant" should be replaced by "the Earth's Radiant".

Referring to page 4069-4070 section "1.1 A simple and reliable technique for estimating liquid water content and effective droplet number density from CALIPSO", from the text flow, it might be clearer switching the order of Figure 4 and 5, i.e., label current Figure 5 as Figure 4, and Figure 4 as Figure 5, change both the figure caption and the text part.

Into the Discussion section on page 4073 line 15, the wording "since CloudSat will give you" may be replaced by "since Cloudsat will provide".

On page 4074 Reference section, references should be listed according to the alphabetic order of lead author's last name, therefore reference "Meskhidze, N. " should be moved before reference "Miles, N.J.,"; reference "Shaw, G." should be moved to the last one; reference "Minnis, P. 2006" should be moved after reference "Minnis, P. 1998".

In general this paper represents a thorough and forward thinking approach to global climate change problems. I enjoyed reading the work and learned much from it as well.

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Interactive comment on Atmos. Chem. Phys. Discuss., 7, 4065, 2007.

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