

## ***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.***

**Y. Hu et al.**

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Thanks for the comments and the paper indeed benefits from addressing them.

Here are some quick answers to the comments.

Regarding to comments to the introduction section, we will add some detailed discussions as Dr. Hurley suggested.

On the second part of the comments, 1. we will add the unit (1/km) to the numbers (1 and 135) in equation (1), which is the formula to link extinction coefficient and depolarization. Thanks for the suggestion! 2. we are reversing figure 4 and 5. 3. we

will revise equation (3) to include the density of water (which introduce the 1/1000 for clarify the units. Again, Thanks for checking! 4. the in situ measurements agrees with the numbers we derived, but the measurements are at different years. I have been looking for collocated measurements to verify our results. 5. we added the reference of the gamma distribution by Hanson (1971) and will point out in the paper that it fits the measurements well (Miles, 2000). 6. the Shaw paper in the reference is 1983 and should not be 1987. Thanks for pointing out the error.

I will ask Dr. Vaughan to double check the English and make sure it lives up to the standard.

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

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Interactive Discussion

Discussion Paper