

## ***Interactive comment on “Sea surface wind speed estimation from space-based lidar measurements” by Y. Hu et al.***

**Y. Hu et al.**

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Response to Reviewer #1

1. The correlation coefficient is added. 2. More details about the fitting are added and the uncertainty of the fit is included in Figure 1. 3. The reviewer is correct that the 1D statistics claim was not clear in the text. I changed the text in the introduction to make it more obvious. Basically, for a 2D Gaussian distribution to be normalized, sea surface lidar backscatter is inversely proportional to the variance. For 1D Gaussian, the lidar backscatter is inversely proportional to the square root of variance. And that is exactly what we are seen. 4. We corrected the technical errors. Thanks for pointing them out!

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 2771, 2008.

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Interactive Discussion

Discussion Paper

