

## ***Interactive comment on “Quantifying the aerosol effect on droplet size distribution at cloud-top” by Lianet Hernández Pardo et al.***

**Lianet Hernández Pardo et al.**

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We would like to thank Anonymous Referee #2 for taking the time to analyze our work and suggest improvements. We agree that a more detailed discussion on the limitations of the modelling approach, including additional simulations to assess the influence of its shortcomings, would improve the scientific quality of the manuscript. Following the suggestions of both referees, we performed several modifications in the model. The new simulations allowed us to analyze the behavior of the sensitivities in diverse situations, providing a new perspective to the results. We are currently modifying the manuscript hoping to provide a deeper and clearer insight on the results already shown.

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In the attached pdf document we provide detailed responses to the issues raised in the review, as well as a description of the new capabilities of the model.

Please also note the supplement to this comment:

<https://www.atmos-chem-phys-discuss.net/acp-2018-1087/acp-2018-1087-AC1-supplement.pdf>

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-1087>, 2018.

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