

***Interactive comment on* “Switching cloud cover and dynamical regimes from open to closed Benard cells in response to the suppression of precipitation by aerosols” by D. Rosenfeld et al.**

Anonymous Referee #1

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I disagree with the first reviewer of this manuscript. The authors have taken a diverse set of observation and model simulations and integrated them into a testable hypothesis for a potentially very important mechanism. The manuscript does not have to prove the hypothesis to be worthy of publication. They have raised an issue that deserves further study.

However, the conclusions are overstated. Although the authors have provided circumstantial evidence to support their hypothesis, they have not shown it to be true. Further work using in situ measurements and detailed modeling is required to confirm the hy-

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pothesis put forth in this stimulating manuscript.

I therefore urge the authors to be more tentative in their presentation. Assertions should be identified as assertions, and speculations as speculations. The goal is to initiate discussion. It is too early to draw sweeping conclusions. Further work is required.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 1179, 2006.

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