

Interactive
Comment

Interactive comment on “Measurements of electric charge separated during the formation of rime by the accretion of supercooled droplets” by R. A. Lighezzolo et al.

R. A. Lighezzolo et al.

avila@famaf.unc.edu.ar

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If the inverted polarity storms are certainly associated with high liquid water content, then the hypothesis of the charge separation mechanism by ice-ice collisions should be handled with caution, because it has been experimentally determined that this mechanism can lose its efficiency when the ice-particles are close to the wet growth regime (Pereyra et al, JGR, 113, D17203, doi:10.1029/2007JD009720, 2008).

We think that the best way of checking the efficiency of the splinter mechanism is by using a cloud electrification numerical model.

By the way, we will appreciate if the reviewer could suggest some references in literature
C8116

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ture of the microphysical conditions and charge structures of inverted polarity storms.

Interactive comment on *Atmos. Chem. Phys. Discuss.*, 9, 23349, 2009.

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