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Interactive comment on “Precipitation effects of giant cloud condensation nuclei artificially introduced into stratocumulus clouds” by E. Jung et al.

Anonymous Referee #2

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General Comments:

The effects of giant CCN on cloud and precipitation has been an important issue in weather modification and climate change, but is still poorly understood, due mostly to the lack of observational evidence. This article presents aircraft measurements of the changes in microphysical properties of stratocumulus clouds induced by seeding giant salt particles. The results are interesting and are well presented. It should be publishable in ACP if the following specific issues could be considered in revision.

Specific Comments:

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1) During the “post-seeding” flights, did the aircraft fly over some clouds which are not influenced by the seeding? It would be more convincing if some evidence are provided to show that the drop size and number concentration in the seeded area are really different from those in the nearby areas which are not clearly influenced by seeding.

2) The values shown in Table 2 should also include the standard deviations.

3) In the caption of Figure 4, “Fig. 1f” should be “Fig. 4f”; the color “dark blue” is not really dark; other color curves are not clearly explained.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 47, 2015.

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