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# ***Interactive comment on “The importance of interstitial particle scavenging by cloud droplets in shaping the remote aerosol size distribution and global aerosol-climate effects” by J. R. Pierce et al.***

**J. R. Pierce et al.**

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Thanks, reviewer 2.

*It would be interesting to see how this process alters the simulated aerosol size distribution – this would also help interpret the reported changes to aerosol number concentrations. A suggestion would be to plot simulated aerosol size distributions from the BASE simulation in comparison to one of the other simulations at a few locations.*

We now include a figure that shows the size distributions at the 21 sites we used for model evaluation. “Figure 3 shows the annual-mean size distributions at each location

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for the measurements and the model for the BASE and INT65nm10um238K simulations. The inclusion of interstitial coagulation decreases the number of sub-100nm particles at many remote locations.”

*P5593, Line 27. Spracklen et al. (2007a, b) cited but not in reference list. P5597, Line 16 Missing “)”. P5600, Line 18. Missing “particles” after “CCN-sized”.*

The reference in the text was supposed to be Spracklen et al. (2005a,b), the original two GLOMAP papers. We fixed this in the text.

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 5589, 2015.

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