

## **Response summary**

Below is a list of changes made to the paper as requested.

### **Editor**

Upon trialling the editor's suggestion to use linear fits in log-log space we found them to fit the data better than the polynomials that we were previously using, and as such we have replaced them with these linear fits. We thank the editor for their suggestions which has improved the quality of the manuscript. We have also used linear fits in log-linear space to replace the exponential fit used to describe the number concentration of cluster C3 as function of rain rate.

### **Referee 2**

Referee 2's comments relate to the polynomial fits which have now been replaced with linear fits in log-log space. The subsequent study comparing different approaches is currently on hold, pending the results of an ongoing experiment.