Supplement of

The impact of sampling strategy on the cloud droplet number concentration estimated from satellite data

Edward Gryspeerdt et al.

Correspondence to: Edward Gryspeerdt (e.gryspeerdt@imperial.ac.uk)

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Table S1. Root mean squared deviation (RMSD) for MODIS-In situ comparisons for the 2.1 µm retrieval. “-” indicates too few points to calculate a correlation. The “Average” row is the mean RMSD across the campaigns and the “All” row is the RMSD for all the valid data points across all campaigns.

|          | All     | Q06     | G18     | BR17    | Z18     |
|----------|---------|---------|---------|---------|---------|
| E-PEACE  | 62.80   | 62.68   | 49.40   | 30.57   | 50.56   |
| FASE     | 52.01   | 52.24   | 55.14   | 55.49   | 45.56   |
| MACAWS   | 41.69   | 39.11   | 44.83   | 39.84   | 41.69   |
| MASE1    | 79.82   | 75.33   | 70.48   | 72.52   | 65.45   |
| MASE2    | 46.39   | 46.90   | 56.01   | 46.32   | 57.41   |
| VOCALS   | 77.90   | 77.71   | 71.21   | 64.17   | 48.49   |
| ORACLES  | 52.52   | 52.66   | 51.42   | 41.59   | 43.34   |
| NAAMES   | 100.67  | 102.00  | 100.28  | 122.87  | 111.30  |
| SOCRADES | 44.55   | 46.72   | 44.47   | 22.40   | 59.02   |
| COPE     | 138.92  | 141.07  | 153.03  | nan     | 154.06  |
| ACTIVATE | 255.92  | 201.05  | 198.09  | 139.01  | 252.48  |
| Average  | 86.66   | 81.59   | 81.31   | 63.48   | 84.49   |
| All      | 75.97   | 69.85   | 64.31   | 51.09   | 82.80   |

Table S2. As Tab. S1 but for the mean bias.

|          | All     | Q06     | G18     | BR17    | Z18     |
|----------|---------|---------|---------|---------|---------|
| E-PEACE  | 12.70   | 13.28   | 3.16    | -4.63   | -8.17   |
| FASE     | -9.73   | -7.85   | -5.27   | -6.39   | -6.64   |
| MACAWS   | 3.22    | 2.22    | 4.86    | 5.76    | 22.30   |
| MASE1    | -42.56  | -39.19  | -35.26  | -31.01  | -35.09  |
| MASE2    | 16.11   | 16.91   | 20.89   | 32.26   | 6.81    |
| VOCALS   | 36.90   | 43.78   | 56.88   | 50.66   | 42.20   |
| ORACLES  | -18.43  | -18.15  | -16.62  | -6.97   | -15.29  |
| NAAMES   | 40.91   | 42.42   | 45.38   | 79.71   | 68.55   |
| SOCRADES | 9.85    | 10.07   | 17.91   | 10.17   | 23.75   |
| COPE     | -114.96 | -121.05 | -133.92 | nan     | -133.73 |
| ACTIVATE | -184.53 | -146.36 | -157.72 | -112.38 | -195.78 |
| Average  | -22.77  | -18.54  | -18.16  | 1.72    | -21.01  |
| All      | -9.71   | -7.05   | -6.61   | -4.36   | -15.33  |