

The revised paper(ver.5) is acceptable after correcting the following technical issues:

Technical issues

P1, L26: mixing type → mixed type

P2, L53, L57: mixing state → mixed state

P2, L68: internal mixing → internal mixture

P3, L80: mixing state → mixed state

P3, L101: L/min, P4, L126: Lpm → Both should be unified.

P4, L128: What is the physical meaning of “measurement uncertainty”, number density or particle size? Please make it clear in the context.

P4, L186: internal mixing → internal mixture

P6, L182: Please give the relevant reference for “Voronoi aggregation”.

P7, L233: mixing state → mixed state

P7, L208: No.18 → No.1418, No.19 → No.1419

P8, L246: “were also observed “ → “was also observed “

P8, L262-263: Please give the relevant reference(s) for “several previous studies.”

P10, L345: coarse-mode particle → coarse –mode particles

P14: In Table 1, there are no units in each column. Please put a suitable unit clearly.

P16: In the caption of Fig.1, please put the relevant reference(s) for “REAS2.0 emission inventory”.

P18: In the caption of Fig.3, “volume size distributions (a), depolarization ratio (b), averaged depolarization ratio for the particles at $D_p = 1 \mu\text{m}$ and $D_p = 2 \mu\text{m}$ (c) in 2014” should be modified into “(a) volume size distributions, (b) depolarization ratio, (c) averaged depolarization ratio for the particles at $D_p = 1 \mu\text{m}$ and $D_p = 2 \mu\text{m}$ in 2014”

P22: In the caption of Fig.7, “from Regions I (a), II (c), III(e) and Region IV (g)” should be modified into “from Regions (a) I, (c) II, (e) III and Region (g) IV”

P22, L487: mixing layer → mixed layer