

## Authors' replies on Editor's Comments on ACP 2024-2064

"Assessing BC and CO Emissions from China Using EMERGe Aircraft Observations and WRF/CMAQ Modelling"

### 5 **Public justification:**

Dear Phuc Ha,

The revised manuscript was re-evaluated by both reviewers who recommend publication in ACP. I agree that the presentation and description of the methods and results has improved and concerns of the referees have been well addressed. One minor change is still necessary before the manuscript can be published. The abstract of the manuscript is too long and does not comply with ACP's author guidelines ([https://www.atmospheric-chemistry-and-physics.net/policies/guidelines\\_for\\_authors.html](https://www.atmospheric-chemistry-and-physics.net/policies/guidelines_for_authors.html)). Abstracts should have fewer than 250 words and provide a concise and accessible summary of the purpose, results, and implications of the research. Please revise the abstract accordingly.

15 Best regards,

Andreas Hofzumahaus

**AC:** We thank for your taking care of our manuscript. We carefully revised the abstract to meet the journal's criteria. Other changes including typos, co-authors' information change, figures updates, are also highlighted.

Lines 14 – 28: abstract revised

Line 8: co-author's affiliation updated

Line 302: typo

25 Lines 389 – 390: typo

Lines 534 – 560: changed according to changes in Figure 8

Line 432: Figure 6 was changed for better visualization, all the styles and legends were kept.

Legend entries for the ranges of sub-air masses were added.

Line 613: typo

30 Line 624 – 629: Figure 8 was changed for better visualization and more consistent with Figure 6, all the styles and legends were kept except marker styles for inventory lines changed from squares to circles. Legend entries for the uncertainty ranges were added. Caption was slightly changed.