

## ***Interactive comment on “Black carbon aerosol in winter northeastern Qinghai-Tibetan Plateau, China: the effects from South Asia pollution” by Q. Wang et al.***

**Anonymous Referee #1**

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This paper reports the results of on-line airborne black carbon measurements at a unique site in the Qinghai-Tibetan Plateau, where the climate is very sensitive to anthropogenic activities. The data were collected using reliable and advanced instruments, including a SP2 and a PAX. The data were well organized and analyzed to present the concentration, size distribution, and mixing state of BC in this special region. Especially, the potential sources of BC in the polluted days were clearly identified, suggesting the importance impact of

I have two minor concerns.

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1. The cutoff size for PAX measurement was PM<sub>2.5</sub>, while what SP2 measured was particles of 100-1000 nm. To calculate the MAE value, this discrepancy should be evaluated. 2. In the back trajectory analysis, besides the altitude of 500 m, other altitudes like 100 m and 1000 m needs to be analyzed to confirm the source regions identified.

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