

Interactive comment on “Atmospheric brown clouds reach the Tibetan Plateau by crossing the Himalayas” by Z. L. Lüthi et al.

Anonymous Referee #3

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The paper entitled “Atmospheric Brown Clouds reach the Tibetan Plateau by crossing the Himalayas” by Lüthi et al. investigates the crossing of aerosol particles from the polluted India region to the Tibetan Plateau region. This is an important and interesting topic, which fits the scope of ACP. The authors use several data sets and a trajectory model for the analysis. The analysis is clearly stated. I have several comments which the authors should be addressed before the paper can be accepted. The detailed comments are as follows. P8, L15-21. The authors discuss the new find particle formation. The new fine particles are formed starting with very small size of particles (a few nm in radius). However, the FMF cannot reveal such information of the small particles. I suggest the authors to remove these sentences, or to add more solid evidences to support this point.

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The labels of Fig. 9 are too small to read, which should be enlarged.

Figs. 10, 14 are too small. It is difficult to read, please revise.

The English needs to be polished, and the following comments are only some examples.

- (1) There are no blanks between references (many places). For example, (Ye and Wu 1998;Ma et al., 2009) should be (Ye and Wu 1998; Ma et al., 2009)
- (2) The sentence in P7, L19-20 needs to be revised.
- (3) The sentence in P7, L20-21 needs to be revised.
- (4) P8, L1, change “Sect. 3.2 and 3.3” to “Sections 3.2 and 3.3”

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